



Resilient Environment Department

ENVIRONMENTAL PERMITTING DIVISION

1 North University Drive, Mailbox 201, Plantation, Florida 33324 • 954-519-1483 • FAX 954-519-1412

July 18, 2025

City of Hollywood
c/o Jose Cortes
PO Box 229045
Hollywood, FL 33022
Email: jcortes@hollywoodfl.org

Dear Mr. Cortes:

This is to notify you of the Resilient Environment Department's action concerning your application received October 19, 2023, for authorization to construct a seawall within and adjacent a mangrove wetland located at 801 Johnson Street, Hollywood, Florida. The application has been reviewed for an Environmental Resource License.

Broward County - Environmental Resource License (ERL) Review – Granted

The Department has reviewed the project for compliance with Aquatic and Wetland Resource Protection Ordinance Sec. 27-331 through 27-341 of the Broward County Code. Based on the information submitted, Environmental Resource License No. **DF23-1297** is hereby issued. The above-named licensee is hereby authorized to perform the work per the approved drawings(s), plans, documents and specifications as submitted by the licensee, and made a part hereof. The above-mentioned approvals will remain in effect subject to the attached Broward County General Conditions, Broward County Specific Conditions, and stamped exhibits.

The issuance of this license is a **final agency determination**. A person with a substantial interest may file a petition to request review of, or to intervene in a review of, a final administrative determination, subject to the provisions of Section 27-14, Broward County Code of Ordinances (excerpt attached).

Sincerely,

Linda Sunderland

Linda Sunderland, PWS
Environmental Program Supervisor

July 18, 2025

Date

ENC:

1. Environmental Resource License
2. Sec. 27-14 Administrative Review Procedures (4 pages)
3. One copy of stamped drawings (19 pages)

CC:

1. Cummins Cederberg c/o Francesca Fourney
2. USACOE-PBG (via e-mail)



Resilient Environment Department

ENVIRONMENTAL PERMITTING DIVISION

1 North University Drive, Mailbox 201, Plantation, Florida 33324 • 954-519-1483 • FAX 954-519-1412

ENVIRONMENTAL RESOURCE LICENSE

LICENSEE: City of Hollywood
c/o Jose Cortes
PO Box 229045
Hollywood, FL 33022

LICENSE NO: DF23-1297
PROJECT:
Hollywood Tidal Flood Mitigation and
Shoreline Protection (Sites 2 & 22,
Holland Park)

This license is issued under the provision of Chapter 27 of the Broward County Code of Ordinances also cited as Broward County Natural Resource Protection Code hereinafter called the Code. The above-named applicant, hereinafter called licensee, is hereby authorized to perform the work or operate the facility shown on the approved drawing(s), plans, documents, and specifications as submitted by applicant, and made a part hereof and specifically described as follows:

Description of Work: This project involves the installation of a retaining wall and road improvements for the purpose of flood mitigation and shoreline protection within a 27-acre site at Holland Park. The following regulated activities are proposed during construction of the development: (1) the filling of approximately 4,552 square feet (0.105-acre) of mangrove wetlands to install a new 822-linear foot sheet pile wall north of Johnson Street at the western side of Holland Park; (2) installation of a new 2' wide cap; and (3) roadway improvements (not yet approved). No work is proposed within a Joint Deed of Conservation Easement area granted to Broward County and South Florida Water Management District, instrument number 107911004, associated with DF02-1215.

Unavoidable impacts to 0.105-acre of mangrove wetland shall be offset through the purchase of 0.03 saltwater mitigation credits calculated with WATER scores from the FPL/Everglades Mitigation Bank (EMB). This license does not authorize impacts to resources not described herein.

Location of Work: This project is located at 801 Johnson Street, Hollywood. Folio Number 514201013880.

Construction shall be in accordance with submitted ERL Application Form received on 10/19/2023, and all additional information submitted; plans stamped by the Department on 07/18/2025 (attached); and with all General and Specific Conditions of this license.

License No. DF23-1297

LICENSEE: Hollywood Tidal Flood Mitigation and Shoreline Protection (Sites 2 & 22, Holland Park)

GENERAL CONDITIONS:

1. The terms, conditions, requirements, limitations and restrictions set forth herein are accepted by the licensee and enforceable by Resilient Environment Department (RED) pursuant to Chapter 27 of the Broward County Code of Ordinances. RED will review this license periodically and may revoke the license, initiate administrative and/or judicial action for any violation of the conditions by the licensee, its agents, employees, servants or representatives or principals.
2. This license is valid only for the specific uses set forth in the license application, and any deviation from the approved uses may constitute grounds for revocation and enforcement action by RED.
3. In the event the licensee is temporarily unable to comply with any of the conditions of the license, the licensee shall notify RED within twelve (12) hours. Within five (5) working days of the event, the licensee shall submit a written report to RED that describes the incident, its cause, the measures being taken to correct the problem and prevent its reoccurrence, the owner's intention toward repair, replacement, and reconstruction of destroyed facilities, and a schedule of action leading toward operation within the license conditions.
4. The issuance of this license does not convey any vested rights or exclusive privileges, nor does it authorize any injury to public or private property or any invasion of personal rights, or any violations of federal, state or local laws or regulations.
5. This license must be available for inspection on the licensee's premises during the entire life of the license.
6. By accepting this license, the licensee understands and agrees that all records, notes, monitoring data and other information relating to the construction or operation of this permitted source, that are submitted to RED, may be used by RED as evidence in any enforcement proceeding arising under Chapter 27 of the Broward County Code of Ordinances, except where such use is prohibited by § 403.111, F.S.
7. The licensee agrees to comply with Chapter 27 of the Broward County Code of Ordinances, as amended.
8. Any new owner of a licensed facility shall apply by letter for a transfer of license within thirty (30) days after sale or legal transfer. The transferor shall remain liable for performance in accordance with the license until the transferee applies for, and is granted the transfer of license. The transferee shall also be liable for performance in accordance with the license.
9. The licensee, by acceptance of this license, specifically agrees to allow access to the licensed source at reasonable times by RED personnel for the purposes of inspection and testing to determine compliance with this license and Chapter 27 of the Broward County Code of Ordinances.
10. This license does not constitute a waiver or approval of any other license that may be required for other aspects of the total project.
11. If the licensee wishes to renew a license or extend its term, the licensee shall make application sixty (60) days prior to its expiration. Expired licenses are not renewable.
12. In addition to the general conditions set forth above, each license issued by RED shall contain specific conditions determined by site conditions and requirements pursuant to the regulations as determined by the director of RED. The licensee agrees that specific conditions are enforceable by RED for any violation thereof.
13. Enforcement of the terms and provisions of this license shall be at the reasonable discretion of RED, and any forbearance on behalf of RED to exercise its rights hereunder in the event of any breach by the licensee, shall not be deemed or construed to be a waiver of RED's rights hereunder.

License No. DF23-1297

LICENSEE: Hollywood Tidal Flood Mitigation and Shoreline Protection (Sites 2 & 22, Holland Park)

SPECIFIC CONDITIONS:

A. STANDARD CONDITIONS

1. **Notify the Department in writing a minimum of 48 hours prior to project commencement and a maximum of 48 hours after project completion.** Commencement notification should include such information as the intended start date, estimated duration of construction, and the name and contact information of the firm contracted to do the work. Failure to comply with this condition may result in enforcement action.
2. Any project causing environmental problem(s) shall be reported immediately to the Department's Environmental Response Line at 954-519-1499.
3. All project generated solid waste and/or spoil material must be disposed of in a suitable approved manner in accordance with current regulations at an upland location (not including surface waters and wetlands).
4. Turbidity screens, silt fences, or equivalent shall be properly employed and maintained as necessary to effectively contain suspended sediments and/or runoff during construction activities. **Dredging, filling, excavation, seawall removal, seawall construction, and other projects which result in similar degrees of disturbance to wet sediments shall in all cases employ turbidity control measures designed to effectively enclose the entire work area.**
5. Turbidity levels shall be monitored and recorded if a visible turbidity plume is observed leaving the site during construction activities. If monitoring reveals that turbidity levels exceed 29 NTU's above natural background 50 feet downstream of the point of discharge, project activities shall immediately cease, and work shall not resume until turbidity levels drop to within these limits [62-302.530(69) FAC].
6. Only clean fill shall be placed in the water bodies being filled. Any fill material used shall be free of garbage, rubbish, refuse, asphalt, hazardous materials, organic matter such [as] wood, lumber, tree or tree trimmings, or other contaminants. The disposal of any putrescible or deleterious debris in any water body is prohibited.

B. CONSTRUCTION CONDITIONS

1. No dredging is authorized by this license.
2. If the approved license drawings and/or license attachments/plans conflict with the specific conditions, then the specific conditions shall prevail.
3. Demolition and construction related debris must be disposed of at an approved upland location and may not be left in the wetlands or any surface waters.
4. This license does not eliminate the necessity to obtain any required federal, state, local or special district authorizations prior to the start of any activity approved by this license.

C. MANGROVE CONDITIONS

1. Adjacent wetland areas shall be protected from construction activities and construction-related runoff using siltation screening and/or haybales around the perimeter of the scrape down area adjacent to wetlands. The erosion protection devices shall be placed before the initiation of any other ground-disturbing activities and shall remain in place until all ground disturbing activities within the project have concluded, and the site has stabilized, at which time the screening or haybales shall be removed completely from the site.
2. Spoil generated from the excavation authorized by this license must be placed on the upland portion of the site and must be contained in such a manner as to prevent erosion into the adjacent mangrove wetlands or other surface waters.

License No. DF23-1297

LICENSEE: Hollywood Tidal Flood Mitigation and Shoreline Protection (Sites 2 & 22, Holland Park)

3. This license does not authorize the licensee to cause any adverse impact to or "take" of state listed species and other regulated species of fish and wildlife. Compliance with state laws regulating the take of fish and wildlife is the responsibility of the owner or applicant associated with this project. Please refer to Chapter 68A-27 of the Florida Administrative Code for definitions of "take" and a list of fish and wildlife species. If listed species are observed onsite, FWC staff are available to provide decision support information or assist in obtaining the appropriate FWC permits. Most marine endangered and threatened species are statutorily protected and a "take" permit cannot be issued. Requests for further information or review can be sent to FWCConservationPlanningServices@MyFWC.com.

D. SEAWALL CONDITIONS

1. No dredging other than that required for proper installation of the proposed seawall paneling is authorized by this license.
2. Backfill material shall be clean fill as defined by Section 27-332 of Broward County Code of Ordinances.

E. COMPENSATORY MITIGATION CONDITIONS (OFF-SITE)

1. Off-site mitigation for the authorized wetland impacts shall be comprised of 0.04 saltwater mitigation credits in the Everglades Mitigation Bank which shall be formalized via a modification of the Florida Department of Environmental Protection (FDEP) Environmental Resource Permit No. 132637449. Proof of the modification shall be submitted to this Department within 45 days of license issuance.
2. Pursuant to the "Agreement between (Florida Power & Light Company) and Broward County concerning the "South Dade (Everglades) Mitigation Bank", FP&L agrees to provide monitoring reports consistent with applicable FDEP license conditions to the County and to provide reasonable access to the bank by the Broward County staff for purposes of ensuring compliance with this Environmental Resource License and FDEP Environmental Resource Permit No. 132637449 or Permit File No. 0193232.
3. Prior to impacting wetlands, the licensee shall submit verification from the mitigation bank that 0.04 credits have been debited from the bank's credit ledger as mitigation for impacts associated with this project.
4. Once purchased the mitigation credits for the Everglades Mitigation Bank shall be the perpetual responsibility of Florida Power and Light Company.

F. A COPY OF THIS LICENSE SHALL BE KEPT ON SITE DURING ALL PHASES OF LICENSED CONSTRUCTION.

Recommended for approval by:

Michelle Decker
License Processor

Issued this 18th day of July 2025

Expiration Date: July 18th, 2030

BROWARD COUNTY RESILIENT ENVIRONMENT DEPARTMENT

Linda Sunderland
LINDA SUNDERLAND, PWS
ENVIRONMENTAL PROGRAM SUPERVISOR
ENVIRONMENTAL PERMITTING DIVISION

Sec. 27-14. Administrative review of RED determinations.

- (a) A person with a substantial interest may file a petition to request review of or to intervene in a review of a final administrative determination made pursuant to this chapter concerning:
 - (1) The requirement that a facility or activity obtain a license or environmental review approval.
 - (2) Interpretations of license or environmental review approval conditions.
 - (3) Interpretations of variance conditions.
 - (4) The decision to suspend or revoke a license or environmental review approval.
 - (5) The requirement of certain license conditions.
 - (6) The issuance of a license or environmental review approval.
 - (7) The denial of a license or environmental review approval.
 - (8) The scope of a license or environmental review approval, geographic or otherwise.
 - (9) The scope of a variance, geographic or otherwise.
 - (10) The issuance of a stop work order.
 - (11) Similar final administrative determinations.

This administrative review procedure shall be the only means of review available for the above final administrative determinations by either the petitioner or the intervenor (the parties).

- (b) person may not obtain review by this procedure:
 - (1) The issuance or adjudication of or other matters involving a notice of violation or a citation.
 - (2) Internal policy decisions
- (c) A person desiring a review of a staff determination made pursuant to this Chapter shall first bring the determination to the attention of the appropriate section supervisor to attempt to resolve the matter. If a resolution cannot be reached, then the decision shall be reviewed by successive supervisory levels until the issue is resolved or reaches the level of the director or his or her designee for the final determination.
- (d) A person desiring administrative review of a final determination made by the director or the designee shall file a petition with the director for review by the hearing examiner. The petition shall be filed within ten (10) days from the rendition of the action taken or of the decision made by the director. An entity whose license or approval is being challenged shall be a party to the action.
- (e) The review shall not be heard until the provisions of subsection (f) are met. Upon motion to the hearing examiner, an insufficient petition shall be dismissed with or without leave to refile. If a petition is determined to be insufficient by the hearing examiner and the petitioner has been given leave to refile by the hearing examiner, unless otherwise ordered by the hearing examiner, the petitioner must refile within ten (10) days of the rendition of the order of dismissal or the petition will be dismissed with prejudice.

(f) A sufficient petition for review or petition for intervention in the review shall, at a minimum, contain the following information:

- (1) The nature of the determination sought to be reviewed.
- (2) A short, plain statement of the facts which form the subject matter upon which the determination was made as asserted by all parties of record at the time that the petition is filed; a statement of the material facts in dispute, if any. If any party is unable to state the matters in sufficient detail at the time initial petition is filed, the petition may be limited to a statement of the issues involved; and thereafter, upon timely written motion, a more definite and detailed statement shall be furnished not less than seven (7) days prior to the date set for the hearing.
- (3) The specific determination for which the review is sought.
- (4) The specific legal grounds upon which the parties seek review of the determination.
- (5) A short statement of the petitioner's or the intervenor's substantial interest in the matter to be reviewed.
- (6) The specific section of this chapter on which the decision is based, if known, and the specific section that the parties allege should control the decision, if known.
- (7) A copy of the director's or the designee's written final determination.
- (8) A statement of the relief requested stating precisely the action that the petitioner wants RED to take with respect to the final determination.

(g) All pleadings or other documents filed in the proceeding must be signed by a party, the party's attorney, or the party's qualified representative. The signature of a party, the party's attorney or a party's qualified representative constitutes a certificate that he or she has read the pleading or other document and that to the best of his or her knowledge, information, and belief formed after reasonable inquiry, it is not brought for any improper purposes, such as to harass or to cause unnecessary delay or for frivolous purpose or needless increase in the cost of litigation. If a pleading or other document is signed in violation of these requirements, the hearing examiner, upon motion or his or her own initiative, shall dismiss the matter.

(h) A petitioner or intervenor may request an emergency hearing to stay all activities or work conducted pursuant to the challenged license or approval. Such petitioner or intervenor has the burden of proof to show by a preponderance of the evidence that the continued activities would cause substantial pollution or degradation to the environment. An emergency hearing shall be scheduled by RED and be held within five (5) days of said request or as soon thereafter as possible subject to the availability of the hearing examiner. The petitioner or intervenor shall comply with the notice provisions of section 27-14(j)(2)a. and c. and section 27-14(j)(3) and (4) of this chapter.

(i) The petition for review will not stay environmental protection activities required for the remediation or mitigation of a site or facility, the protection of the environment or the health, safety and welfare of the citizens of Broward County, or the prevention of further environmental degradation. The person responsible for these activities must take all necessary steps to prevent environmental degradation and must conduct the remediation or mitigation activities required by this chapter. The director may allow these activities to be delayed until after the hearing examiner's decision by certifying to

the hearing examiner that, by reason of facts stated in the certificate, a delay in the initiation or completion of these activities would not cause substantial environmental degradation or peril to life or property. The delay for conducting these activities may be subject to appropriate terms to ensure protection of the environment. The person responsible for these activities shall be responsible for any environmental damage or any violation of this chapter caused by the delay.

(j) Notice and Scheduling Requirements:

- (1) The hearing on the review shall be scheduled within a reasonable time. It shall be the responsibility of the petitioner to request through RED that the hearing date be scheduled. It shall also be the responsibility of the petitioner to give notice in accordance with this section at least ten (10) days prior to the hearing.
- (2) The petitioner shall give notice of the hearing by:
 - a. Giving personal notice to all proper parties; and
 - b. Publishing notice on two (2) days in a newspaper of general circulation in the county; and
 - c. Posting notice at a location determined by the Broward County Administrator's Office.
- (3) The petitioner shall bear the cost of giving notice.
- (4) The notice shall contain, at a minimum:
 - a. A description and location of the facility or the activity to be conducted by the petitioner; and
 - b. The time and place of the hearing.

(k) The petitioner shall bear the cost of accurately and completely preserving all testimony and providing full or partial transcripts to all parties.

(l) The hearing shall be a quasi-judicial hearing.

- (1) The applicant/petitioner requesting the administrative review, any intervenor/petitioner and RED shall have an opportunity to respond to and to present witnesses, other evidence and argument on all issues involved, to conduct cross-examination and submit rebuttal evidence, to submit proposed findings of facts and orders, and to be represented by counsel. Members of the general public who are not intervenors as set forth in Section 27-14 of this chapter are not parties to the proceeding.
- (2) When appropriate, the general public may be given an opportunity to present oral or written communications. If the hearing examiner proposes to consider such material, then all parties shall be given an opportunity to cross-examine, challenge or rebut it.

(m) Denial, protest of, revocation, or suspension of a license, environmental review approval, or any other approval:

- (1) In regard to denial or protest of approval of a license and any other review of an administrative decision, notwithstanding (2) below, the petitioner shall have the burden of showing, by a preponderance of the evidence, that the determination of the director was an arbitrary and/or capricious abuse of discretion, not supported by competent, substantial evidence or not in conformance with the

essential requirements of this chapter. The hearing examiner shall not substitute his or her judgment for that of RED on an issue of discretion even though the hearing examiner may have reached a different conclusion based on the same facts.

- (2) In an action to revoke or suspend a valid license or approval, the burden shall be upon RED to prove, by a preponderance of the evidence in an administrative hearing, the grounds for revocation or suspension. The license holder or approval recipient shall be provided notice of the hearing and a copy of the petition stating the grounds for revocation or suspension as provided in section 27-63 of this chapter. The petition shall state with specificity the acts complained of in order to allow the license holder or approval recipient an opportunity to prepare a defense. The hearing shall be conducted in accordance with the provisions of Section 27-37 of this chapter.
 - (n) Findings of fact shall be based exclusively on the evidence of record and on matters officially recognized.
 - (o) If the hearing examiner finds that the director or his or her designee has erroneously interpreted a provision and that a correct interpretation compels a particular action, he or she shall remand the case to the director or his or her designee for further action under a correct interpretation of the provision.
 - (p) The hearing examiner shall complete and submit to the director and all parties a final order consisting of his or her findings of fact and conclusions of law.
 - (q) A party to the hearing may obtain appellate review of the final order as provided by section 27-42 of this chapter.
 - (r) A petitioner or intervenor shall pay a filing fee at the time the application for review is filed. The amount of the filing fee shall be set by resolution of the Board.

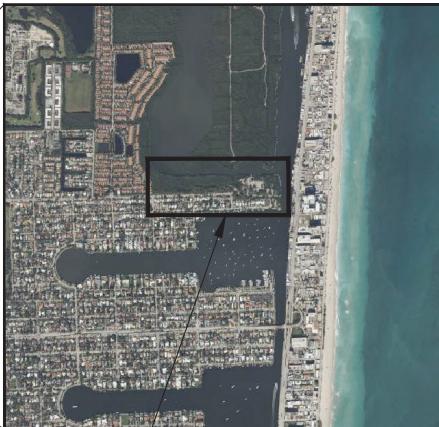
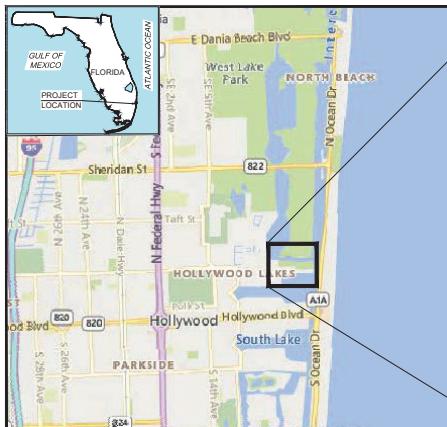
(Ord. No. 2003-34, § 1, 9-23-03; Ord. No. 2005-08, § 2.03, 4-26-05)
Secs. 27-15--27-19. Reserved.

CITY OF HOLLYWOOD FLORIDA

TIDAL FLOODING MITIGATION AND SHORELINE PROTECTION PROJECT

HOLLAND PARK, 801 JOHNSON ST., HOLLYWOOD, FL 33019

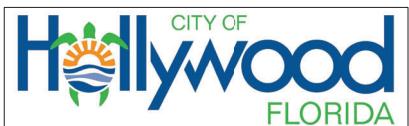
CITY OF HOLLYWOOD PROJECT NO. DCM-----



PROJECT LOCATION



CLIENT:



CITY OF HOLLYWOOD
DEPARTMENT OF DESIGN AND
CONSTRUCTION MANAGEMENT
2600 HOLLYWOOD BLVD.
HOLLYWOOD, FL 33020

PRIME CONSULTANT:



COASTAL, MARINE & ENVIRONMENTAL
888 S. ANDREWS AVE. STE. 206
FORT LAUDERDALE, FL 33316
TEL: 954-880-1646

SUBCONSULTANTS:



CURTIS + ROGERS
LANDSCAPE ARCHITECTURE
3440 HOLLYWOOD BLVD. STE. 415
HOLLYWOOD, FL 33021
TEL: 954-610-4412



NIVIS
GEOTECHNICAL ENGINEER
200 SOUTH PARK RD. STE. 350
HOLLYWOOD, FL 33021
TEL: 954-495-2112



KEITH & ASSOCIATES SURVEYOR
301 E. ATLANTIC BLVD.
POMPANO BEACH, FL 33060
TEL: 954-788-3400



CHEN MOORE AND ASSOCIATES
CIVIL ENGINEER
500 W. CYPRESS CREEK RD. STE. 600
FORT LAUDERDALE, FL 33309
TEL: 954-730-0707

NOT FOR CONSTRUCTION
PERMIT DRAWINGS
FOR REGULATORY REVIEW
08/07/2024



BRIZAGA
PUBLIC OUTREACH
2101 W. COMMERCIAL BLVD. STE. 4600
FORT LAUDERDALE, FL 33309
TEL: 954-834-3533



1. GENERAL

1.1. THE WORK CONSISTS OF PROVIDING ALL CONSTRUCTION, LABOR, EQUIPMENT, MATERIAL, AND OPERATIONS IN CONNECTION WITH THE CONSTRUCTION, MAINTENANCE, AND REMOVAL OF THE PROJECT DREDGING.

1.2. ANY DISCREPANCIES IN THE PLANS WITH THE FIELD CONDITIONS SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE ENGINEER. CONSTRUCTION SHALL NOT CONTINUE UNTIL THE ENGINEER HAS ADDRESSED THE DISCREPANCIES.

1.3. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PROTECT EXISTING STRUCTURES IN THE PROJECT VICINITY. AREAS SHALL BE REPAVED PROMPTLY BY THE CONTRACTOR, ANY DAMAGE AS A RESULT OF THE CONTRACTOR'S OPERATIONS SHALL BE REPAVED AT NO COST TO THE OWNER. ALL ACCESS AND STAGING AREAS SHALL BE KEPT NEAT, ORDERLY AND IN A SENSIBLE MANNER. ALL ACCESS AND STAGING AREAS SHALL BE RESTRICTED TO THE PRE-CONSTRUCTION CONDITION UPON PROJECT COMPLETION. ALL COSTS OF THE CONTRACTOR'S OPERATIONS SHALL BE REPAVED, REMOVED, AND RESTORED TO THE SAME CONDITIONS FOR CONSTRUCTION. IN THE EVENT INFRASTRUCTURE (SUCH AS WALKWAYS, SIDEWALKS, FENCES, VEGETATION, ETC.) IS TEMPORARILY REMOVED OR RELOCATED OR THERE IS UNAUTHORIZED DAMAGE TO VEGETATION AND/OR FACILITIES BY THE CONTRACTOR, THE CONTRACTOR SHALL RESTORE ALL DAMAGE TO STRUCTURES AND NATURAL FEATURES TO THE PRE-CONSTRUCTION CONDITIONS OR BETTER.

1.4. UTILITIES ARE NOT SHOWN IN THE PLANS. CONTRACTOR IS RESPONSIBLE FOR LOCATING ALL PRESENT UTILITIES PRIOR TO CONSTRUCTION.

1.5. CONTRACTOR IS RESPONSIBLE FOR PROVIDING PROPER CLEARANCE AND PROTECTION TO ALL OVERHEAD WIRES AND CONSTRUCTION EQUIPMENT.

1.6. THE CONTRACTOR SHALL EXCLUDE THE PUBLIC FROM THE WORK AREAS IN THE IMMEDIATE VICINITY OF OPERATIONS.

1.7. CONTRACTOR SHALL PROVIDE APPROPRIATE MEASURES TO PROTECT THE PUBLIC.

1.8. ALL NEW STRUCTURES SHALL BE ACCURATELY PLACED, PLUMB, AND LEVEL. ALL PIPES, PIPES, MEASURED AND DIMENSIONS VERIFIED BY THE CONTRACTOR PRIOR TO ORDERING MATERIALS. CONTRACTOR SHALL BE PREPARED TO MAKE FIELD ADJUSTMENTS TO ACCURATELY FIT THE NEW WORK TO EXISTING CONDITIONS.

1.9. NO CONSTRUCTION SHALL COMMENCE UNTIL ALL REQUIRED PERMITS AND APPROVALS HAVE BEEN SECURED AND THE CONTRACTOR HAS RECEIVED THE APPROVALS.

1.10. ATTENTION IS DIRECTED TO THE FACT THAT THESE PLANS MAY HAVE BEEN CHANGED IN SIZE BY REPRODUCTION. THIS SHOULD BE CONSIDERED WHEN OBTAINING SCALED DATA.

1.11. CONSTRUCTION WORK SHALL BE EXECUTED IN ACCORDANCE WITH ALL LOCAL, STATE, AND NATIONAL BUILDING CODES AND GOVERNING REGULATIONS. FDEP, USACE, AND BROWARD COUNTY. CONTRACTOR SHALL ADHERE TO ALL CONDITIONS OF THE PERMITS AND EXEMPTIONS.

2. SURVEY

2.1. SURVEY PERFORMED BY KEITH, DATED 04/02/21.

2.2. ELEVATIONS ARE IN U.S. FEET AND REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88).

2.3. HORIZONTAL DATUM IS IN U.S. FEET REFERENCED TO FLORIDA STATE PLANE, EAST ZONE, NAD83.

2.4. AERIAL IMAGERY BY ESRI WORLD IMAGERY SERVICED DATE: 04/17/18 FOR VISUAL REFERENCE ONLY.

3. TIDAL DATA

3.1. CONTRACTOR MAY NEED TO ADJUST HIS WORK PLAN TO ACCOUNT FOR ACTUAL WATER LEVELS AND CHANGING WATER LEVELS. THE SITE MAY BE SUBJECT TO VARIABLE WAVE AND SURGE CONDITIONS AND IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO PROVIDE TEMPORARY SUPPORT FOR MARINE STRUCTURES AND SHORELINE DURING CONSTRUCTION.

3.2. WATER LEVELS OBTAINED FROM NOAA STATION 872297 WHISKEY CREEK CORRECTED FOR SEA LEVEL RISE..

4. LAYOUT & TESTING

4.1. ALL CONSTRUCTION STAKE OUT SHALL BE PERFORMED AND PAID FOR BY THE CONTRACTOR UNDER THE SUPERVISION OF A SURVEYOR REGISTERED IN THE STATE OF FLORIDA.

4.2. CONTRACTOR SHALL PROVIDE THE ENGINEER WITH A SET OF AS-BUILT DRAWINGS IN SUFFICIENT DETAIL TO ILLUSTRATE THE HORIZONTAL AND VERTICAL COMPONENTS OF ABOVE AND BELOW-WATER STRUCTURES RELATIVE TO THE CONSTRUCTION BASELINE. DRAWING SHALL BE SIGNED AND SEALED BY A FLORIDA-REGISTERED SURVEYOR.

5. UTILITIES

5.1. CONTRACTOR SHALL CALL SUNSHINE 1-800-432-4770 PRIOR TO CONSTRUCTION. CONTRACTOR IS RESPONSIBLE FOR LOCATING ALL PRESENT UTILITIES PRIOR TO CONSTRUCTION. NO FILE DRIVING SHALL TAKE PLACE WITHIN THE DESIGNATED CONSTRUCTION AREA UNTIL UTILITY LOCATIONS HAVE BEEN FILED.

5.2. PRIOR TO ANY SCHEDULED INTERRUPTION OF UTILITY SERVICE, THE CONTRACTOR WILL COORDINATE SUCH INTERRUPTION WITH THE UTILITY PROVIDER AND WILL PROVIDE A MINIMUM 24-HOUR NOTICE TO AFFECTED PARTIES. THE CONTRACTOR WILL NOTIFY THE ELECTRIC UTILITY A MINIMUM OF TWO (2) WEEKS PRIOR TO CONSTRUCTION IN THE VICINITY OF THEIR FACILITIES.

6. DEMOLITION

6.1. CONTRACTOR SHALL VERIFY THE EXTENTS, LOCATION AND QUANTITIES OF EXISTING ELEMENTS TO BE REMOVED.

6.2. ALL DEBRIS WITHIN THE LIMITS OF THE PROJECT SHALL BE HAULED OFF SITE BY THE CONTRACTOR, AS DIRECTED BY THE OWNER, AND DISPOSED OF AT AN APPROPRIATE FACILITY.

6.3. CONTRACTOR SHALL NOT DAMAGE ANY STRUCTURAL COMPONENTS BEYOND THE DEMOLITION REQUIREMENTS DEPICTED IN THESE DRAWINGS. ANY DAMAGE SHALL BE REPAVED AT THE CONTRACTOR'S EXPENSE.

7. ENVIRONMENTAL NOTES

7.1. SPOIL MATERIAL SHALL BE DE-WATERED ON SITE WHILE SURROUNDED BY EROSION CONTROL DEVICES (SUCH AS BERMS OR HAY BALES). THE CONTRACTOR SHALL COORDINATE THE DE-WATERING LOCATION WITH THE OWNER PRIOR TO COMMENCING DREDGING OPERATIONS. THE HANDLING AND STORAGE OF THE SPOIL MATERIAL SHALL BE COMPLETED IN A MANNER THAT PREVENTS POLLUTION, EROSION, AND SEDIMENTATION. OVERLOAD TRANSFER AND OVERLOADING OF VEHICLES OR EQUIPMENT OF MATERIAL. ALL DREDGE MATERIAL SHALL BE PLACED AT AN APPROVED UPLAND DISPOSAL SITE IN ACCORDANCE WITH APPROVED PERMITS.

7.2. CONTRACTOR SHALL SUBMIT A TURBIDITY CONTROL AND MONITORING PLAN FOR REVIEW AND APPROVAL PRIOR TO COMMENCING OPERATIONS IN ACCORDANCE WITH APPROVED PERMITS.

7.3. TURBIDITY CURTAINS SHALL BE DEPLOYED FOR THE DREDGING PROJECT PER THE PLANS AND THE APPROVED PERMITS.

7.4. TURBIDITY CURTAINS SHALL NOT BE REMOVED FROM DREDGING AREA UNTIL LEVELS WITHIN ENCLOSED AREA RETURN TO APPROXIMATE LEVEL AND POSITION OF THE CURTAIN.

7.5. TURBIDITY CURTAINS SHALL EXTEND TO WITHIN 10' OF THE MUDLINE.

7.6. TURBIDITY CURTAINS SHALL BE SECURED WITH TEMPORARY STEEL OR TIMBER PILINGS AT SUFFICIENT SPACING TO MAINTAIN CONTROL FUNCTIONS. ALL LINES SHALL BE TAUT AND NON-LINUOUS TO PREVENT WILDLIFE ENTANGLEMENT.

7.7. THE CONTRACTOR SHALL NOT OPERATE IN THE DREDGING AREA UNTIL THE TURBIDITY CONTROL AND MONITORING OPERATION OCCURS. THE INCIDENT WILL BE IMMEDIATELY REPORTED TO THE APPROPRIATE AGENCY. VESSEL OPERATORS SHALL OPERATE AT "TIDE SPEED/NO WAKE" AT ALL TIMES WHILE OPERATING IN WATER DEPTHS WITH LESS THAN 4-FOOT CLEARANCE. OR IF A PROTECTED SPECIES HAS BEEN OBSERVED, ALL VESSELS SHALL FOLLOW MARKED CHANNEL ROUTES. OPERATION OF EQUIPMENT SHALL BE LIMITED TO THE DREDGING AREA. THE CONTRACTOR SHALL NOT OPERATE IN THE VICINITY OF CONSTRUCTION EQUIPMENT AND SHALL RESUME ONLY WHEN THE SPECIES HAS LEFT THE AREA OF ITS OWN VOLITION.

7.8. THE CONTRACTOR SHALL NOT ANCHOR, PLACE PIPELINE, OR STAGE EQUIPMENT IN A MANNER THAT WILL CAUSE ANY DAMAGE TO MARINE RESOURCES. ANCHORING OR STAGING EQUIPMENT SHALL AVOID THESE SENSITIVE AREAS. IF SUCH ACTIVITIES ARE NECESSARY, THE CONTRACTOR SHALL NOTIFY THE OWNER AND THE ENGINEER. THE CONTRACTOR SHALL BE NOTIFIED IMMEDIATELY (NO LATER THAN THE MORNING FOLLOWING THE NEXT WORKING DAY) IF THE INCIDENT OCCURS AFTER NORMAL WORKING HOURS. ANY ACTUAL OR POTENTIAL INCIDENT INVOLVING DAMAGE TO, OR DISTURBANCE OF, SEAGRASSES SHALL BE REPORTED.

8. SUBMITTALS

8.1. ALL SHOP DRAWINGS MUST BEAR EVIDENCE OF THE CONTRACTOR'S APPROVAL PRIOR TO SUBMITTING TO THE ENGINEER. THE FOLLOWING MINIMUM SUBMITTALS SHALL BE PREPARED BY THE CONTRACTOR AND SUBMITTED TO THE ENGINEER FOR REVIEW AND APPROVAL PRIOR TO RELATED CONSTRUCTION ACTIVITY:

8.2.1. SCHEDULE FOR COMPLETION OF WORK WITH TASKS AND

- DURATION DEFINED
- LOCATION OF WORKS AND DISPOSAL PLAN
- ROCK WEIGHT TICKETS
- HARDWARE
- EPOXY
- GEOTEXTILE FABRIC
- EARTH PLUG INSTALLATION AND METHODOLOGY
- INCLEMENT WEATHER

- BACKFILL
- 9.1. TURBIDITY MONITORING
- 9.2. SPECIES MONITORING

10. SUBMITTALS

10.1. ALL SHOP DRAWINGS MUST BEAR EVIDENCE OF THE CONTRACTOR'S APPROVAL PRIOR TO SUBMITTING TO THE ENGINEER. THE FOLLOWING MINIMUM SUBMITTALS SHALL BE PREPARED BY THE CONTRACTOR AND SUBMITTED TO THE ENGINEER FOR REVIEW AND APPROVAL PRIOR TO RELATED CONSTRUCTION ACTIVITY:

10.2.1. SCHEDULE FOR COMPLETION OF WORK WITH TASKS AND

- DURATION DEFINED
- LOCATION OF WORKS AND DISPOSAL PLAN
- ROCK WEIGHT TICKETS
- LUMBER
- HARDWARE
- FILTER FABRIC

9. EARTH WORKS (EXCAVATION AND BACKFILL)

9.1. EXCAVATED MATERIAL MAY BE TEMPORARILY STOCKPILED IN THE STAGING AREA FOR OFF-SITE DISPOSAL AT AN APPROVED UPLAND FACILITY.

9.2. BACKFILL SHALL BE CLEAN GRAVEL (#57 STONE).

9.3. BACKFILL SHALL BE TOPPED WITH 6" OF CLEAN TOPSOIL AND SODDED TO MEET THE GRADES SPECIFIED HEREIN.

10. GEOTEXTILE

10.1. GEOTEXTILE SHALL BE U.S. #70 (OR APPROVED EQUAL).

10.2. PROVIDE GEOTEXTILE IN ACCORDANCE WITH FDOT SPECIFICATION 514. INSTALL GEOTEXTILE AS INDICATED ON THE DRAWINGS AND IN ACCORDANCE WITH THE MANUFACTURERS INSTRUCTION.

11. ROCK

11.1. PROPOSED ROCK SOURCE(S) MUST BE APPROVED FOR USE BY THE ENGINEER PRIOR TO THE COMMENCEMENT OF THE WORK. ONCE THE SOURCE(S) FOR ROCK ARE APPROVED, THE CONTRACTOR SHALL NOT USE MATERIAL FROM ANOTHER SOURCE WITHOUT REPEATING THE ACCEPTANCE AND TEST PROCEDURES TO QUALIFY THE OTHER SOURCE(S).

11.2. CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING QUARRY CERTIFICATIONS AND PERFORMING QUALITY TESTS ON ALL ROCKS USED IN THE PROJECT, INCLUDING THE FOLLOWING MINIMUM REQUIREMENTS:

11.2.1. CLEAN, SOUND AND DURABLE, AND FREE FROM FRACTURES, INCLUSIONS, Voids, OR OTHER DEFECTS. FREE OF CLAY, REFLU, OR ADHERENT COATINGS.

11.2.2. MINIMUM SPECIFIC GRAVITY OF 2.25 (140 PCF).

11.2.3. MAXIMUM 15% LOSS (AS-ROCK).

11.2.4. SUCH CHARACTER THAT IT WILL NOT DISINTEGRATE FROM THE ACTION OF AIR, WATER, OR THE CONDITIONS OF HANDLING AND PLACING. MAXIMUM ABRASION LOSS OF 50% (ASTM C131).

11.2.5. ENOUGH ANGULAR QUADRANT MATERIAL AS A ROCK THAT ASSURES INTERLOCKING WITH ADJACENT ROCK.

11.3. ALL ROCK WHICH IS SUBJECT TO DRILLING, RANDOM SAMPLING, AND TESTING (INCLUDING RANDOM DROP TESTS) ROCK THAT DOES NOT CONFORM IN SPECIFIC GRAVITY, STRUCTURE AND OTHER CHARACTERISTIC REQUIREMENTS WILL BE REJECTED. THE PRESENCE OF UNSATISFACTORY ROCK OR OBJECTIONABLE FOREIGN MATERIAL IN ANY OF CONTRACTOR PROVIDED ROCK WILL BE DEEMED SUFFICIENT REASON FOR REJECTION OF THE ENTIRE LOAD OF ROCK. ANY SUCH LOAD OF ROCK SHALL BE IMMEDIATELY REMOVED FROM THE SITE AT THE CONTRACTOR'S EXPENSE.

11.4. ROCK USED FOR THE REVETMENT CONSTRUCTION SHALL CONFORM TO THE FOLLOWING GRADATION:

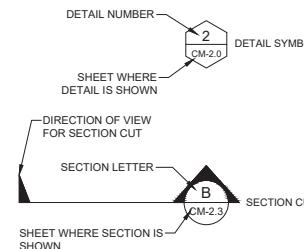
PERCENT LESS THAN BY WEIGHT	MASS (LB.)	NOMINAL SIZE (FT.)
100	750	1.8
50	475	1.5
0	275	1.2

11.4.1. THE LEAST DIMENSION OF ANY ROCK SHALL NOT BE LESS THAN ONE-THIRD (1/3) OF THE GREATEST DIMENSION OF THAT ROCK. SQUARE OR FLAT ROCK SHALL NOT BE ACCEPTED. ROCK SIZE SHALL BE TAKEN AS THE AVERAGE OF THE ROCKS MAXIMUM GIRTH MEASURED IN EACH OF THREE PERPENDICULAR AXES. THE IN-PLACE ROCK SHALL BE WELL GRADED AND REPRESENT THE RANGE OF SIZE SPECIFIED.

11.5. THE TONNAGE OF ARMOR STONE IN THE BID ASSUMES THAT THERE ARE NO Voids. UNLESS CHANGED BY THE ENGINEER, THE BID TONNAGE IS THE TONNAGE TO BE USED. THE CONTRACTOR SHALL MAKE HIS OWN ESTIMATE PRIOR TO MAKING HIS BID. THE BID TONNAGE ASSUMES 140 PCF STONE IS USED TO FILL THE TEMPLATE. IF A HIGHER UNIT WEIGHT STONE IS USED, IT IS POSSIBLE THAT THE FINAL CROSS SECTION MAY VARY FROM THAT SHOWN ON THE PLANS. REGARDLESS OF THE STONE DENSITY, THE RIPRAP SHALL NOT EXTEND BEYOND THE CROSS SECTION SHOWN ON THE PLANS.

ABBREVIATIONS	
ACI	AMERICAN CONCRETE INSTITUTE
ASTM	AMERICAN SOCIETY FOR TESTING AND MATERIALS
CONT	CONTINUOUS
CONT'D	CONTINUED
FDEP	FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION
FDOT	FLORIDA DEPARTMENT OF TRANSPORTATION
KSI	KIPS PER SQUARE INCH
MHW	MEAN HIGH WATER
MIN	MINIMUM
MLW	MEAN LOW WATER
NAVD	NORTH AMERICAN VERTICAL DATUM
NGVD	NATIONAL GEODETIC VERTICAL DATUM
PERA	PERMITTING, ENVIRONMENT, AND REGULATORY AFFAIRS
PSI	POUNDS PER SQUARE INCH
TYP	TYPICAL
USACE	UNITED STATES ARMY CORPS OF ENGINEERS
W/C	WATER/CEMENT RATIO

SYMBOLS LEGEND



PROJECT:
CITY OF HOLLYWOOD TIDAL
FLOODING MITIGATION AND
SHORELINE PROTECTION
PROJECT

PROJECT NO. DCM-001187

CLIENT:
CITY OF HOLLYWOOD, FL
DEPARTMENT OF DESIGN
AND CONSTRUCTION
MANAGEMENT
2600 HOLLYWOOD BLVD.
HOLLYWOOD, FL 33020



PRIME CONSULTANT:
CUMMINS CEDERBERG
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SUBCONSULTANTS:
CURTIS + ROGERS
LANDSCAPE ARCHITECTURE
3440 HOLLYWOOD BLVD. STE. 415
HOLLYWOOD, FL 33021
TEL: 954-610-4412

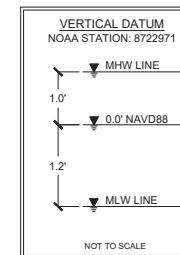
NIV/5
GEOTECHNICAL ENGINEER
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KEITH & ASSOCIATES
SURVEYORS
301 E. ATLANTIC BLVD.
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TEL: 954-788-3400

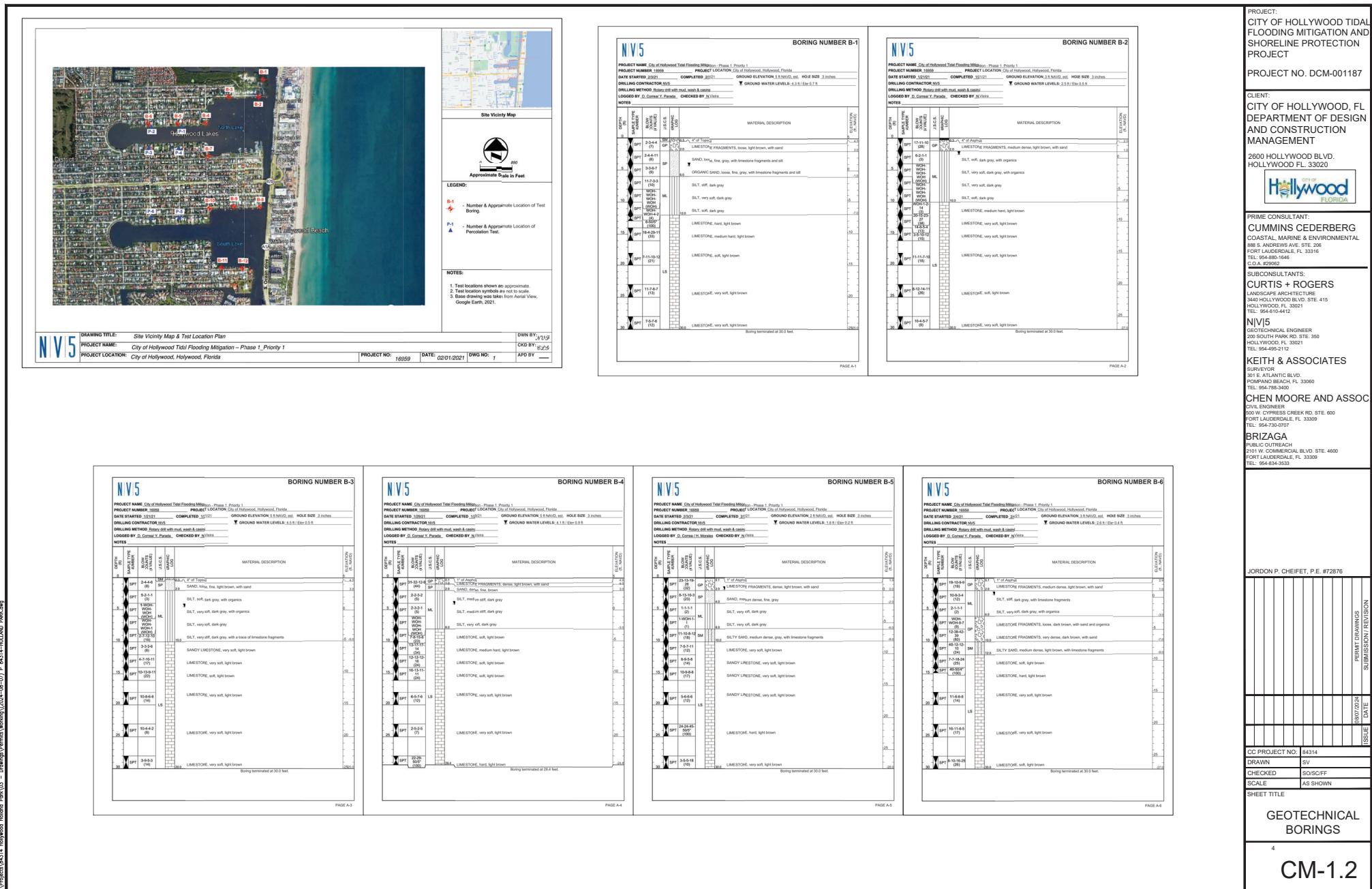
CHEN MOORE AND ASSOC
CIVIL ENGINEER
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FORT LAUDERDALE, FL 33309
TEL: 954-433-3333

BRIZAGA
PUBLIC OUTREACH
201 W. BROWARD PARK BLVD. STE. 4600
FORT LAUDERDALE, FL 33309
TEL: 954-434-3333

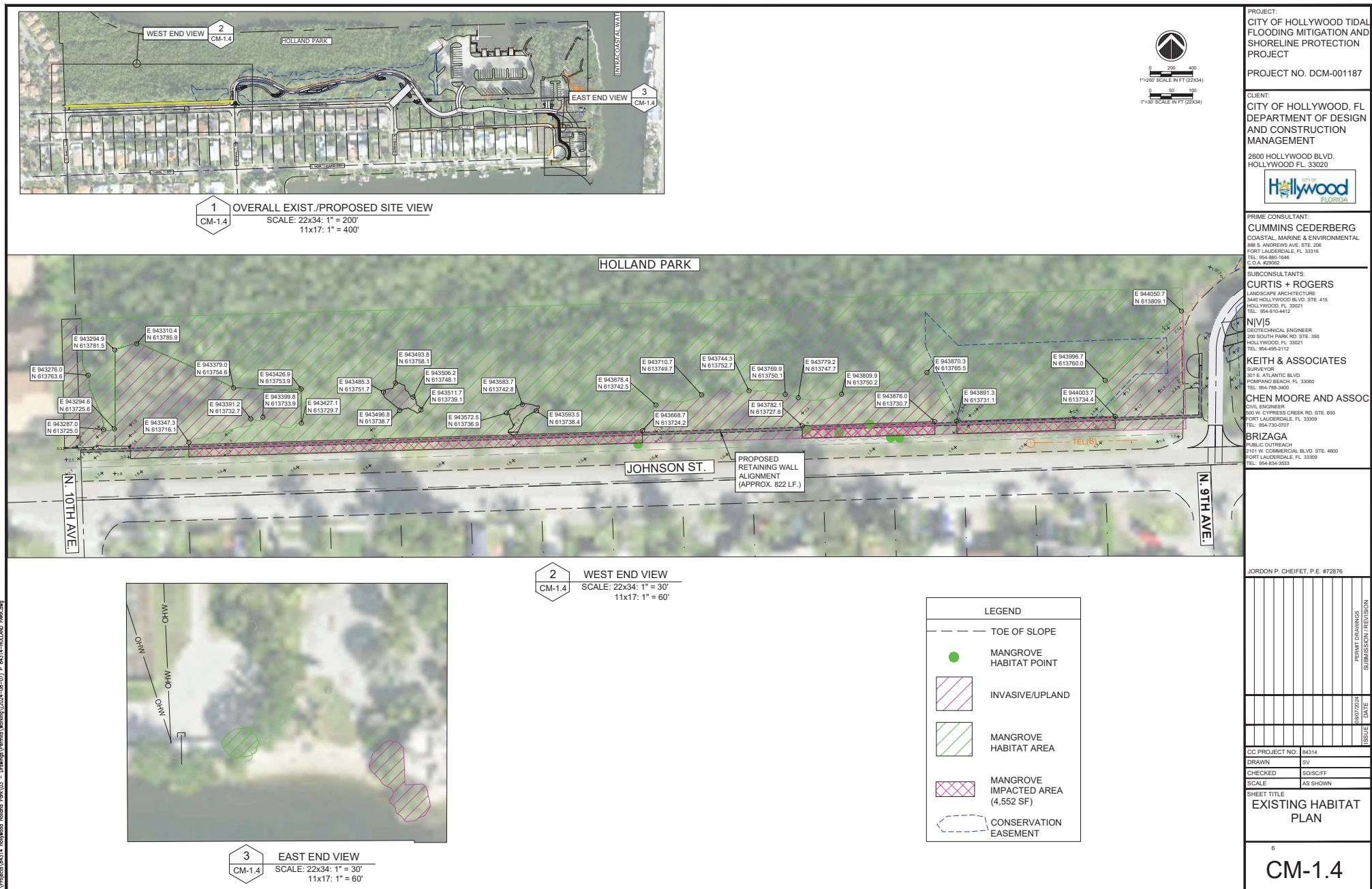
JORDON P. CHEIFET, P.E. #72876



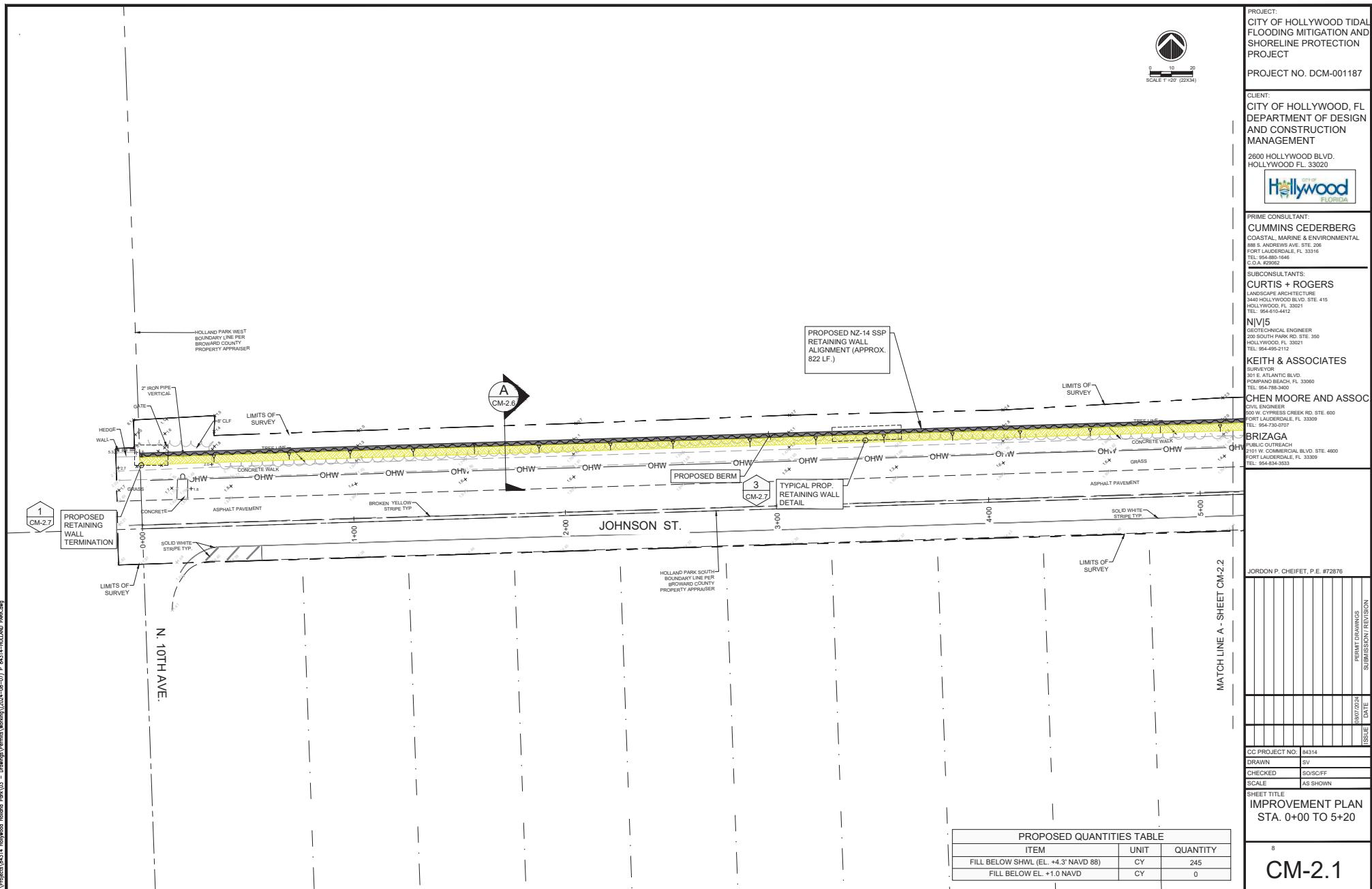
GENERAL NOTES
3
CM-1.1



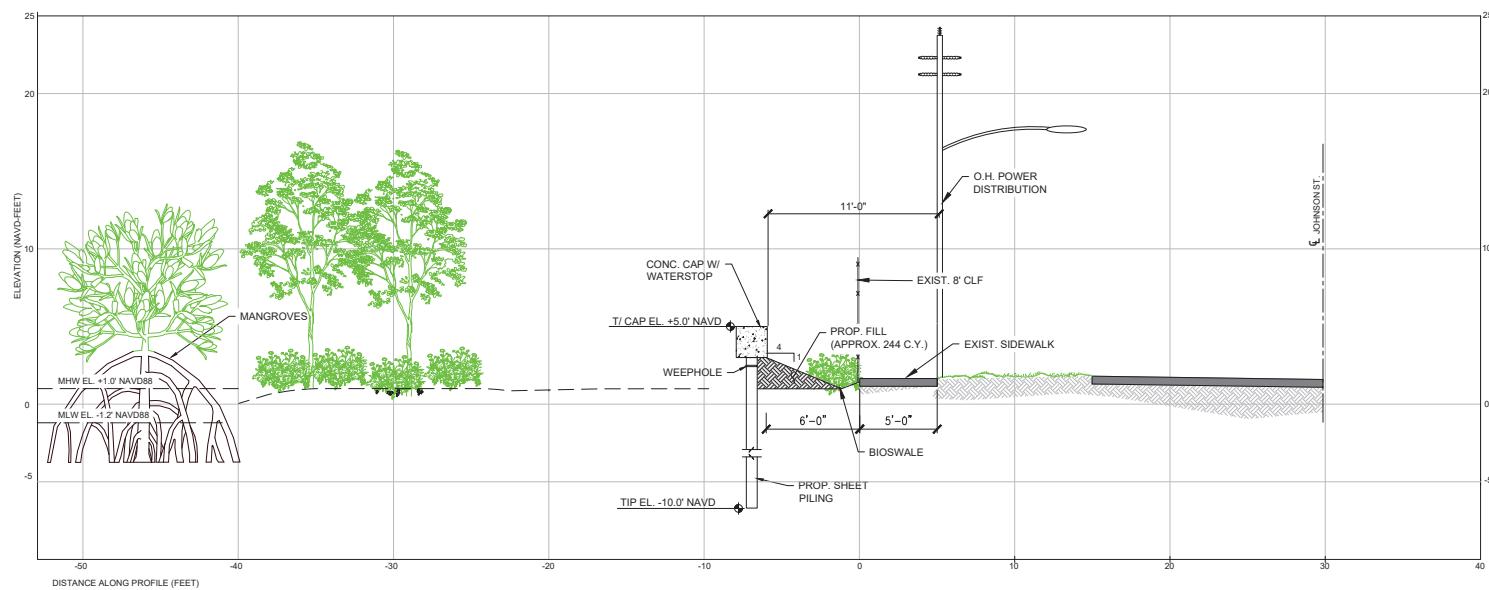












PROPOSED BERM SECTION
SCALE: 1" = 4' (22X34)

A

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NIVIS
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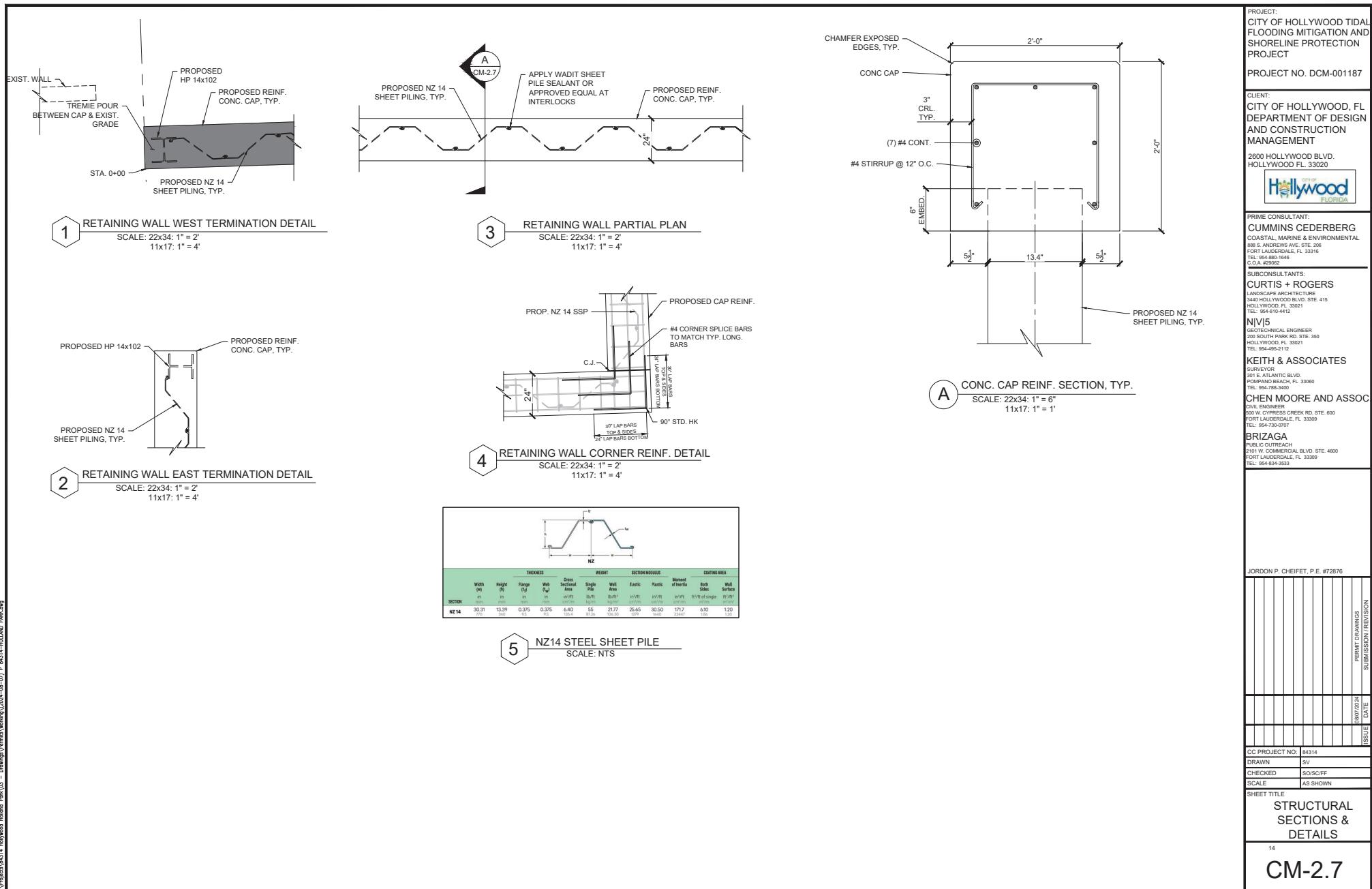
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JORDON P. CHEIFET, P.E. #72876

CC PROJECT NO:	84314
DRAWN:	SV
CHECKED:	SO/SC/FF
SCALE:	AS SHOWN
SHEET TITLE	
TYPICAL SECTIONS	
13	CM-2.6
ISSUE DATE	07/07/2024
SUBMISSION/REVISION	



Mitigation Bank Site Suitability Evaluation (MBSE) Matrix

Parameters		Scoring Criteria	Ratings	Score
1. Adjacent to lands or waters of regional importance and results in identifiable ecological benefits to adjacent lands or waters.	State Park, OFW, AP, and including but not limited to Special Waters on at least 1 boundary	0	0	
	Adjacent lands contain no special designation or undesignated special value	1		
2. Property is within boundary of an acknowledged state, local or regional acquisition program	Property is within boundary of an acquisition program	1	0	
	Property is not within boundary of an acquisition program	0		
3. Property contains ecological or geological features consistently considered by regional Scientist, or federal and state agencies to be unusual, unique or rare in the region and is of sufficient size	Property qualifies	1	1	
	Property does not qualify	0		
4. Property designated as being of critical state or federal concern and/or contains special designations.	Property contains at least 1 special designation.	1	1	
	Property contains no special designations.	0		
5. Property important to acknowledged restoration efforts	Property is important.	1	0	
	Property is not important.	0		
6. Ownership and control of the property.	Property is privately owned.	1	0	
	Property is publicly owned.	0		
7. Threatened, Endangered & Species of Special Concern Presence of animal species (faunal) found on site	Documented Presence of Species on site	1	0	
	No documented Presence of species on site.	0		
8. Threatened, Endangered & Listed Species Presence of plant species (floral) found on site	Documented Presence of Species on site	1	0	
	No documented Presence of species on site.	0		
9. Threat of loss or destruction from development activities. (Development Pressure)	High probability of development.	1	1	
	Low probability of development.	0		
10. Extent to which lands are subject to Local, State, and Federal dredge and fill/ ERP Regulations	Property is not regulated.	1	0	
	Property is regulated.	0		
Value Cumulative Score (CS)				3

The Mitigation Bank Site Suitability Evaluation Matrix is designed to provide a quantifiable means of determining the number of mitigation credits that should be assigned to a bank for "value" related parameters. Value related parameters are human values determined to be important to society, and therefore are not measurable in a purely functional analysis. Functional analysis will only measure the degree of functional ecological improvement (degree of ecological improvement) resulting from mitigation activities. The SS Evaluation measures and provides credit for societal values that separate one mitigation bank from another as required by Ch. 62-342.470 (a) (b) (e) (f) (g) (h) (i) F.A.C.. The SS evaluation is not to be utilized in conjunction with a functional analysis methodology which also utilizes value related parameters in its analysis.

Evaluation Scale	
Site Suitability	Suitability
1.0	1.10
.9	1.09
.8	1.08
.7	1.07
.6	1.06
.5	1.05
.4	1.04
.3	1.03
.2	1.02
.1	1.01
0	0

Site Suitability Matrix		
Maximum Possible Score (MPS)		10
Cumulative Score (CS)		3

0.3

EPA, USACOE, USF & W, FDEP, NMFS, SFWMD, Dade DERM, FPL, CH

3-Apr-96

After Calculating the Site Suitability Score determine the Site Suitability Multiplier by utilizing the Evaluation Scale to the left. The Site Suitability Multiplier is to be multiplied times the number of the Functional Mitigation Credits, resulting from the (W.A.T.E.R.) Functional Assessment of the Mitigation Bank, to determine the number of Site Suitability Credits to be assigned to the Mitigation Bank.

W.A.T.E.R. - Wetland Assessment Technique for Environmental Reviews

Mitigation Bank Wetland Function Evaluation & Impact Site Evaluation Matrix

Based on WBI, WQI, WRAP, HGM and 4th Priority Project List (PPL) with technical advise from EPA, FDEP, ACOE, NMFS, USF & W, SFWMD & Miami-Dade County (W.A.T.E.R. created by: Bill L. Maus)

Data collected on

Scoring conducted by: Cummins Cederberg

Wetland Delineation 12/5/2023, Agency Site Visit 3/22/2023

Parameter/ Function	Scoring Criteria	Ratings	Site 2 MG	Site 9 10 17 19 MG	Site 10 SG
			0.105 AC (4,552 SF) impact	Total Mangrove Impacts= 0.10 (4,542.3 SF) Impact above MHWL = 0.079 AC (3,440.8 SF) Impact below MHWL = 0.025 AC (1,101.5 SF)	0.0004 AC (17.6 SF) impact

1. Fish & Wildlife Functions Apply to freshwater, saltwater, brackish and mitigation systems

a. Waterfowl, wading birds, wetland dependent, or aquatic birds of prey. (Mit. Bank - High specie count w/ low pop. #'s score 1	7 or more species commonly observed	3	1	1	0
	3-6 species commonly observed	2			
	1-2 species commonly observed	1			
	0 species commonly observed	0			
b. Fish (Mit. Bank - High specie count w/ low pop. #'s score 1 Restoration that causes 12% pop. Increases-higher score)	7 or more species commonly observed	3	0	0	1
	3-6 species commonly observed	2			
	1-2 species commonly observed	1			
	0 species commonly observed	0			
c. Mammals (Mit. Bank - High specie count w/ low pop. #'s score 1 Restoration that causes 12% pop. Increases-higher score)	Top predator (carnivore) &/or large mammals	3	1	0	N/A
	Medium sized mammals , (adult weight > 6 lbs.)	2			
	Small animals (rodents, etc.) , (adult weight < 6 lbs.)	1			
	0 species present	0			
d. Aquatic macroinvertebrates, amphibians (Mit. Bank - High specie count w/ low pop. #'s score 1 Restoration that causes 12% pop. Increases-higher score)	7 or more species commonly observed	3	1	1	1
	3-6 species commonly observed	2			
	1-2 species commonly observed	1			
	0 species commonly observed	0			
e. Aquatic reptiles (Mit. Bank - High specie count w/ low pop. #'s score 1 Restoration that causes 12% pop. Increases-higher score)	Large species observed	3	1	1	N/A
	Aquatic turtles	2			
	Snakes & lizards	1			
	No evidence of species present	0			

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2. Vegetative Functions Apply to freshwater, saltwater, brackish and mitigation systems

a. Overstory/shrub canopy	Desirable trees/shrub healthy & providing appropriate habitat (seedlings present) & no inappropriate species	3	1	1	N/A
	Desirable trees/shrubs exhibit signs of stress (no seedlings) few inappropriate species present	2			
	Inappropriate trees/shrubs shading or overcoming desirable tree/shrubs	1			
	Very little or no desirable tree/shrubs present (evidence suggests there should be)	0			
<hr/>					
b. Vegetative ground cover	Assessment area exhibits <2% inappropriate herbaceous ground cover for specific wetland systems and groundcover is present	3	0	N/A	N/A
	Assessment area contains >2% but <30% inappropriate herbaceous groundcover, or lack of groundcover >2% but <30%	2			
	Assessment area contains >30% to <70% inappropriate herbaceous groundcover, or lack of ground cover >30% to <70%	1			
	Assessment area >70% inappropriate herbaceous groundcover or lack of groundcover >70%	0			
<hr/>					
c. Periphyton mat coverage	Periphyton (Blue-green algae) present with average mat thickness >1 1/4 in. (measure active & dead layer)	3	0	0	0
	Periphyton (Blue-green algae) present with average mat thickness between 3/4 in. to 1 1/4 in. (active & dead layer)	2			
	Periphyton (Blue-green algae) present with average mat thickness between 1/4 in. to 3/4 in. (active & dead layer)	1			
	Periphyton (Blue-green algae) not present or if present with average thickness of 0.0 to 1/4 in. (active & dead layer)	0			
<hr/>					
d. Category 1 and Category 2 exotic plants or (non-native) species	< (or = to) 1 % exotic plant cover	3	1	1	N/A
	>1 % to 10 % exotic plant cover	2			
	>10 % to 65 % exotic plant cover	1			
	> 65 % exotic plant cover	0			
<hr/>					
e. Habitat diversity (vegetative) (within assessment area)	>3 native species communities on site within assessment area	3	1	1	1
	2 or 3 native species communities on site within assessment area	2			
	1 native species community with 75 % to 90 % coverage within assessment area	1			
	1 native species community has > 90 % coverage within assessment area	0			
<hr/>					
f. Biological diversity within 3000 feet (approximately 1/2 mile from edge of assessment area)	> 3 alternative habitats available (including upland)	3	0	1	1
	2 to 3 alternative habitats	2			
	1 alternative habitat	1			
	Same habitat type, or inappropriate / impacted	0			

W.A.T.E.R. - Wetland Assessment Technique for Environmental Reviews

Scoring conducted by: Cummins Cederberg

Mitigation Bank Wetland Function Evaluation & Impact Site Evaluation Matrix

Data collected on

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3. Hydrologic Functions

a. Surface water hydrology / sheet flow <i>Apply to freshwater, saltwater, brackish and mitigation systems</i>	Major connection (Flowing water/ river or floodplain/ uniform flow through natural systems)	3	1	1	2
	Moderate connection (Natural restriction of flow or Flowing water due to hydrologic engineering)	2			
	Minor connection (Runoff collection point, or uneven flow due to berms, ditches, roadways etc.)	1			
	Hydrologically isolated, no net lateral movement	0			
b. Hydroperiod (normal year) fresh systems	> 8 months inundated with no reversals & every year drydown	3	N/A	N/A	N/A
	>5 months < 8 months or >5 years continuous inundation (look for strong water stains on persistent vegetation)	2			
	>1 month < 5 months, with possible reversals (look for soft or less distinct water stains on persistent vegetation)	1			
	< 4 weeks cumulative annual inundation or < 2 weeks continuous inundation	0			
b-1 Alternate to b. for Short Hydroperiod (normal year) fresh systems:	>10 weeks of continuous inundation including soil saturation	3	N/A	N/A	N/A
	> 6 weeks but <10 weeks of continuous inundation including soil saturation	2			
	>2 weeks but <6 weeks of inundation, including soil saturation	1			
	<2 weeks of continuous inundation	0			
b-2 Alternate to b. for Saltwater, brackish (tidal) systems	Inundated by >90% high tides	3	1	1	N/A
	Inundated by "spring" high tides (bi-monthly)	2			
	Inundated by "extreme high" tides only (biannually)	1			
	Inundated by storm surges only	0			
b-3 Alternate to b. for High Marsh (Juncus-Distichlis)	Inundated by high "spring" tides (monthly) and flushed by fresh water sheetflow every 10 days average	3	N/A	N/A	N/A
	Inundated by high "spring" tides (monthly) and flushed by fresh water sheetflow every 30 days on the average	2			
	Inundated by high "spring" tides (monthly) and exposed to rain only	1			
	Inundated by >50% high tides and exposed to rain only	0			
b-4 Alternate to b. for Riverine systems	Inundated by high tides (daily) and/or receives and maintains fresh water at least into first half of dry season	3	N/A	N/A	N/A
	Inundated by high tides (daily) and/or receives and maintains fresh water during rainy season only	2			
	Inundated by high tides (daily) and/or receives fresh water but does not maintain (reversal) during rainy season	1			
	Inundated by spring tides (bi-monthly) and/or experiences frequent reversals of fresh water (flashy)	0			

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Mitigation Bank Wetland Function Evaluation & Impact Site Evaluation Matrix

Based on WBI, WQI, WRAP, HGM and 4th Priority Project List (PPL) with technical advise from EPA, FDEP, ACOE, NMFS, USF & W, SFWMD & Miami-Dade County
(W.A.T.E.R. created by: Bill L. Maus)

Data collected on

Scoring conducted by: Cummins Cederberg

Wetland Delineation 12/5/2023, Agency Site Visit 3/22/2023

Parameter/ Function	Scoring Criteria	Ratings	Site 2 MG	Site 9 10 17 19 MG	Site 10 SG
			0.105 AC (4,552 SF) impact	Total Mangrove Impacts= 0.10 (4,542.3 SF) Impact above MHWL = 0.079 AC (3,440.8 SF) Impact below MHWL = 0.025 AC (1,101.5 SF)	0.0004 AC (17.6 SF) impact

3. Hydrologic Functions continued

c. Hydropattern (fresh system)	>1 ft. water depth for at least 2.5 months and <6 in. for >1 month (measure water mark/ lichen line), or water depth ideal for specific wetland system.	3	N/A	N/A	N/A
	>6 in to 1 ft. for at least 2.5 months (measure water mark/ lichen line) or water depth borderline over or under for specific wetland system	2			
	<6 in. for at least 2.5 months (measure water mark/ lichen line) or water depth incorrect for specific wetland system	1			
	<6 in. in association with either canals, ditches, swales, culverts, pumps, and/or wellfields, or these factors cause water depth to be too deep for specific system.	0			
c-1 Alternate to c. for Saltwater, brackish (tidal) systems	>1 ft. water depth <2 ft. on 90% high tides	3	0	1	N/A
	> 6 in. water depth <1 ft. on >50% high tides	2			
	< 6 in. water depth, but > than saturated	1			
	Saturated by saline water table only	0			
c-2 Alternate to c. for High Marsh (Juncus-Distichlis)	>10 in. water depth <2 ft. on regular basis during growing season	3	N/A	N/A	N/A
	>5 in. to 10in. water depth on regular basis during growing season	2			
	>1 in. to 5 in. water depth on regular basis during growing season	1			
	>0.0 in. to 1 in. water depth sporadically during growing season	0			
c-3 Alternate to c. for Riverine systems	>2 ft. water depth (main channel) <6 ft. for 8 months	3	N/A	N/A	N/A
	>2 ft. water depth (main channel) <4 ft. for 6 months	2			
	>1 ft. water depth (main channel) <2.5 ft. for 4 months	1			
	<1 ft. water depth, but dry for >4 weeks (dry season)	0			

W.A.T.E.R. - Wetland Assessment Technique for Environmental Reviews

Scoring conducted by: Cummins Cederberg

Mitigation Bank Wetland Function Evaluation & Impact Site Evaluation Matrix

Data collected on

Wetland Delineation 12/5/2023, Agency Site Visit 3/22/2023

Based on WBI, WQI, WRAP, HGM and 4th Priority Project List (PPL) with technical advise from
EPA, FDEP, ACOE, NMFS, USF & W, SFWMD & Miami-Dade County (W.A.T.E.R. created by: Bill L. Maus)

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3. Hydrologic Functions continued

d. Water Quality	No indication of poor water quality (lab testing required, all values within acceptable range)	3	N/A	N/A	1
	No visual indicators of poor water quality observed (1 value just over or under acceptable range)	2			
	Visual indicators of poor water quality questionable (2 values over or under acceptable range)	1			
	Visual indicators of poor water quality observed or lab verified (values are out of acceptable range)	0			
e. Intactness of historic topography (soil disturbance)	Unaltered	3	0	0	0
	Slightly altered soil disturbance, < 10% of assessment area	2			
	Moderately altered soil disturbance, < 25% of assessment area	1			
	Extremely altered soil disturbance, may exceed 50% of assessment area	0			
f. Soils, organic (fresh systems)	Organic soil classified hydric soil >12 in. or any thickness over bedrock/caprock with perched water table and either condition covering >90% of surface area	3	N/A	N/A	N/A
	Organic soil classified hydric soil >6 in. but <12 in. and covering >90% of surface area	2			
	Organic soil classified hydric soil >1 in. but <6 in. and covering >50% but <90% of surface area	1			
	Organic soil classified non-hydric soil <1 in. for >50% of surface area	0			
f-1 Alternate to f. for Freshwater, saltwater systems	Sandy soil classified hydric soil with distinct mottling and concretions present in greater than 40% of horizon.	3	N/A	N/A	N/A
	Sandy soil classified hydric soil with mottling and concretions present in > 20% but < 40% of horizon.	2			
	Sandy soil classified hydric soil with light or sparse mottling and concretions < 2 mm diameter or < 20% of horizon.	1			
	Sandy soil exhibits strong evidence of disturbance or mechanical manipulations or is fill material.	0			
f-2 Alternate to f. for Freshwater, saltwater, brackish (tidal) systems	Calcareous loam >12 in. and >90 % of surface area	3	N/A	N/A	N/A
	Calcareous loam >6 in. to <12 in. and >90% of surface area	2			
	Calcareous loam >1 in. to <6 in. and covering >50% but <90% of surface area	1			
	Calcareous loam <1 in. for >50% of surface area	0			

W.A.T.E.R. - Wetland Assessment Technique for Environmental Reviews

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Mitigation Bank Wetland Function Evaluation & Impact Site Evaluation Matrix

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Wetland Delineation 12/5/2023, Agency Site Visit 3/22/2023

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4. Salinity Parameters Apply to freshwater, saltwater, brackish, hypersaline and mitigation systems - Choose 1					
a. Optimum salinity for fresh systems during growing season based on mean high salinity for a normal year. <i>Apply to freshwater systems within 5 miles of the coast</i>	<2 parts per thousand (ppt) 2 to 3 parts per thousand (ppt) 4 to 5 parts per thousand (ppt) >5 parts per thousand (ppt)	3 2 1 0	N/A	N/A	N/A
a-1. Alternate to a. Optimum salinity for brackish systems during growing season based on mean high salinity for a normal year. <i>Apply to brackish (tidal) systems only</i>	6 to 8 parts per thousand (ppt) 9 to 13 parts per thousand (ppt) 14 to 16 parts per thousand (ppt) >16 parts per thousand (ppt)	3 2 1 0	N/A	N/A	N/A
a-2. Alternate to a. Optimum salinity for saline systems during growing season based on mean high salinity for a normal year. <i>Apply to saline marsh (tidal) systems only</i>	17 to 19 parts per thousand (ppt) 20 to 22 parts per thousand (ppt) 23 to 25 parts per thousand (ppt) >25 parts per thousand (ppt)	3 2 1 0	N/A	N/A	N/A
a-3. Alternate to a. Optimum salinity for hypersaline systems during growing season based on mean high salinity for a normal year. <i>Apply to hypersaline (tidal) systems only</i>	26 to 41 parts per thousand (ppt) 42 to 46 parts per thousand (ppt) 47 to 51 parts per thousand (ppt) >51 parts per thousand (ppt)	3 2 1 0	N/A	N/A	N/A
a-4 Alternate to a. Optimum salinity for riverine/tidal creek system during growing season based on mean high salinity for a normal year. <i>Apply to riverine systems only</i>	bottom (lower) third between 12 to 25 ppt middle third between 5 to 11 ppt. upper (top) third between 0 to 4 ppt. bottom (lower) third between 25 to 32 ppt middle third between 6 to 24 ppt. upper (top) third between 0 to 5 ppt. bottom (lower) third between 30 to 40 ppt middle third between 8 to 29 ppt. upper (top) third between 0 to 7 ppt. bottom (lower) third between 35 to 50 ppt middle third between 10 to 34 ppt. upper (top) third between 0 to 9 ppt.	3 2 1 0	N/A	N/A	N/A

W.A.T.E.R. created by: Bill L. Maus

11/1/1998

Cumulative Score (SC)	9	10	7
Maximum Possible Score (MPS)	45.00	42.00	27.00
W.A.T.E.R. = Cumulative Score/Maximum Possible Score	0.20	0.24	0.26



June 2, 2025

City of Hollywood
George R. Keller, Jr., City Manager
P.O. Box 229045
Hollywood, FL 33022

**Re: Everglades Mitigation Bank Credit Reservation:
Anticipated Permit from the following:**
ACOE, Application No. SAJ-2024-02796
SFWMD, Application No. 240802-45012
BCEPGMD, Application number DF23-1297

Please be advised that the Everglades Mitigation Bank (the "EMB") has reserved 0.04 Joint Saltwater mitigation credits necessary to offset the unavoidable wetland impact for the above referenced project. Phase I of the EMB has a signed Mitigation Banking Instrument acknowledged by both FDEP and USACE and sufficient credits are currently available on the EMB ledger to offset the proposed impacts. **The EMB acknowledges receiving payment in full for the above referenced credits.**

Please contact me at 561-691-7060 for any additional information or questions regarding this matter.

Regards,

Brian Yates
Everglades Mitigation Bank