

**TOWN OF CUTLER BAY**

**PUBLIC WORKS  
DEPARTMENT  
INVITATION TO BID  
ITB No. 24-02**

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**BEL AIRE, EUREKA DRIVE ESTS, CUTLER  
COUNTRY GROVES, ALLOM ESTS, AND SOUTH  
GROVE WATER QUALITY IMPROVEMENT  
PROJECT**

**BID DUE DATE & TIME  
WEDNESDAY, APRIL 24, 2024 at 3:00 PM**

**MANDATORY "PRE-BID" MEETING DATE & TIME  
MONDAY, APRIL 1, 2024 at 10:00 AM**

**TOWN OF CUTLER BAY  
INVITATION TO BID  
BEL AIRE, EUREKA DRIVE ESTS, CUTLER COUNTRY  
GROVES, ALLOM ESTS, AND SOUTH GROVE WATER  
QUALITY IMPROVEMENT PROJECT  
ITB No. 24-02**

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**TOWN OF CUTLER BAY  
INVITATION TO BID  
BEL AIRE, EUREKA DRIVE ESTS, CUTLER COUNTRY GROVES, ALLOM ESTS,  
AND SOUTH GROVE RWATER QUALITY IMPROVEMENT PROJECT  
ITB No. 24-02**

The Town of Cutler Bay is requesting bids from qualified proposers to provide construction services for drainage improvements for the **BEL AIRE, EUREKA DRIVE ESTS, CUTLER COUNTRY GROVES, ALLOM ESTS, AND SOUTH GROVE WATER QUALITY IMPROVEMENT PROJECT** as per plans and specifications for the Town of Cutler Bay. Interested proposers should visit the Town's website at [www.cutlerbay-fl.gov](http://www.cutlerbay-fl.gov) to obtain the Invitation to Bid package. Bid Packages may also be picked up during normal business hours at the office of the Town Clerk, Mauricio Melinu, CMC located at:

**Town of Cutler Bay  
10720 Caribbean Blvd., Suite 105  
Cutler Bay, FL 33189**

Sealed submittals including one (1) original and three (3) bound paper copies of the submittal, and one (1) readable/reproducible flash drive completely duplicating the original proposal of the submittals must be received **no later** than **WEDNESDAY, APRIL 24, 2024 at 3:00 PM** and be clearly marked on the outside, "**ITB No. 24-02 BEL AIR, EUREKA DRIVE ESTS, CUTLER COUNTRY GROVES, ALLOM ESTS, AND SOUTH GROVE WATER QUALITY IMPROVEMENT PROJECT**", by **Mauricio Melinu, CMC Town Clerk, Town of Cutler Bay, 10720 Caribbean Blvd., Suite 105, Cutler Bay, Florida, 33189**. Late submittals and electronic submittals will **not** be accepted. **A MANDATORY "Pre-Bid" Meeting will be held on MONDAY, APRIL 1, 2024 at 10:00 AM in the Town Hall Council Chambers, 10720 Caribbean Blvd., Suite No. 115, Cutler Bay, Florida 33189.**

Pursuant to Town Code Chapter 24, Article II, Section 24-228 of the Town Charter, public notice is hereby given that a "Cone of Silence" is imposed concerning the Town's competitive purchasing process, which generally prohibits communications concerning the ITB from the time of advertisement of the ITB until such time as the Town Manager makes a written recommendation to the Town Council concerning the competitive purchase transaction. Please see the detailed specifications for the public solicitation for services for a statement fully disclosing the requirements of the "Cone of Silence".

Pursuant to Section 4-19 of the Town Code; Section 7.6 of the Town Charter, vendors of the Town are required to disclose any campaign contributions to the Town Clerk, and each vendor must do so prior to and as a condition of the award of any Town contract to the vendor. Please see the detailed specifications of this solicitation for further details.

**Women/Minority Owned and Emerging Small Businesses are invited to submit bids on this project.**

The Town of Cutler Bay reserves the right to accept or reject any and/or all bids or parts of bid.

Rafael G. Casals, ICMA-CM, CFM  
Town Manager



**SECTION 00200**  
**INSTRUCTIONS TO BIDDERS**

**1. SEALED BIDS**

Sealed bids for furnishing all goods and services necessary to complete the Work specified in these documents shall be received no later than:

**Date: Wednesday, April 24, 2024**

**Time: 3:00 PM**

**Place: Town Hall  
10720 Caribbean Blvd., Suite 105  
Cutler Bay, Florida 33189**

**2. SCHEDULE OF EVENTS**

No.	Event	Date*	Time* (EST)
1	Advertisement/Distribution of ITB & Cone of Silence Begins	3/8/2024	9:00 AM
2	<b><u>Mandatory</u> Pre-Bid Conference 10720 Caribbean Blvd., Suite 115 Cutler Bay, Florida 33189</b>	<b>4/1/2024</b>	<b>10:00 AM</b>
3	Deadline to Submit Questions	4/9/2024	1:00 PM
4	Deadline to Town Responses to Questions	4/17/2024	5:00 PM
5	<b>Deadline to Submit Bid-Response</b>	<b>4/24/2024</b>	<b>3:00 PM</b>
6	Evaluation of Bid Responses	4/25/2024 through 5/2/2024	8:00 AM to 5:00 PM
7	Announcement of Selected Contractors/Cone of Silence Ends	5/15/2024	6:00 PM

\*The Town reserves the right to change the scheduled dates and time.

3. **DEFINITION OF TERMS**

Certain terms used in these documents are defined as follows:

Bid\Proposal	The bid documents submitted by the Bidder. Bidder/Proposer  Any person, firm or corporation submitting a proposal for the Work covered by these specifications or his duly authorized representative.
Contract	The Contract for Construction to be executed by Contractor and Town for the Work.
Contractor	The person, firm, or corporation with whom the Town has executed a contract for the Work.
Days	Shall refer to calendar days.
Responsible Bidder	In order to be considered a “responsible” bidder, the Bidder must possess integrity as well as adequate equipment and personnel to do the Work within the time limits that are established and adequate financial status to meet the obligations to perform the Work. The firm must not have defaulted on a prior contract or been disbarred by any agency.
Responsive Bidder	Any person, firm or corporation submitting a Bid for the Work whose Bid form is complete and includes all required attachments and enclosures, free from exclusions or special conditions and has no alternative Bids for any items, unless alternatives are requested in the specifications.
Town	The Town Council of the Town of Cutler Bay or the Town Manager, if applicable.
Town Engineer	The Town’s general engineering consultant and project manager for this contract.
Work	The services required by the Contract Documents, including labor and materials.

**4. DELIVERY OF BIDS**

All Bids, whether mailed or delivered in person, shall be submitted in a SEALED ENVELOPE (One (1) Original / Three (3) copies / One (1) readable/reproducible flash drive containing all documents) bearing on the outside the following project information as well as the name of the Bidder and his address clearly marked:

**BEL AIRE, EUREKA DRIVE ESTS, CUTLER COUNTRY GROVES, ALLOM ESTS,  
AND SOUTH GROVE WATER QUALITY DRAINAGE IMPROVEMENT PROJECT**

Addressed to:

**Town of Cutler Bay  
Attn: Mauricio Melinu, CMC Town Clerk  
10720 Caribbean Blvd., Suite 105  
Cutler Bay, Florida 33189**

All Bids must be received by the Town no later than **WEDNESDAY, APRIL 24, 2024 at 3:00 PM.**

**5. BID GUARANTY**

A certified or cashier's check drawn on a national or state bank, or bid bond, in the amount of **five percent (5%)** of the bid, shall accompany each bid as a guarantee that the Bidder will, if award is made, execute an Agreement to do the Work for the amount proposed and furnish any required certificates of insurance and bond documents. The bid bond shall be from a surety with an A-rating or better under Best's Guidelines, made payable to: The Town of Cutler Bay.

**6. BID FORMS**

The Bidder shall submit an original Bid on the bid forms attached to this Invitation to Bid, The Bidder shall fill in all the blank spaces completely for each and every unit item for which a Bid is tendered. The Bidder shall state the price, typewritten or in ink, for which he proposes to do each item of Work. The Bid shall include: 1) Agreement/Contract; 2) Bid Forms; 3) Certificate or Evidence of Insurance; 4) Bid Guarantee; 5) Qualifications Statement; 6) Sworn Statement on Public Entity Crime Form; 7) Addenda acknowledgement, if applicable; 8) Anti-Kickback Affidavit; 9) Non-Collusive Affidavit; 10) Certification Regarding Debarment, Suspension and other Responsibility Matters; 11) Buy American Certificate of Compliance; 12) Certification Regarding Lobbying; 13) Contractor's Questionnaire; 14) Drug Free Workplace form; and 15) a Corporate Resolution evidencing authorization to submit Bid, if applicable.

**7. SIGNATURE ON BID**

The Bidder shall sign the Bid as follows: If the Bid is made by an individual, the Bidder's name and address shall be shown. If made by a firm or partnership, the name and address of each member of the firm or partnership shall be shown. If made by a corporation, the person signing the Bid shall show the name of the state under the laws of which the corporation is chartered, also the names and business addresses of its corporate officers. The Bid shall bear the seal of the corporation attested by the secretary. Anyone signing the Bid as agent shall include in the Bid legal evidence of his/her authority to do so.

**8. AWARD OF CONTRACT**

The award of the Contract will be to the lowest responsive and responsible bidder; whose qualifications indicate the Award will be in the best interest of the Town and whose bid complies with the requirements of these specifications. In no case will the Award be made until all necessary investigations have been made into the responsibility of the bidder(s) and the Town Manager is satisfied that the bidder is qualified to do the work and have the necessary organization, capital, and equipment to carry out the work in the specified timeframes. In evaluating responsibility, the Town may also consider previous contracts with the Town, past performance and experience with other contracts, compatibility of the project team with Town personnel, and any other criteria deemed relevant by the Town.

If the Town accepts a bid, the Town will provide a written notice of award to the lowest responsive and responsible bidder, who meets the requirements of section 1.10.1. If the successful bidder to whom the Contractor is awarded forfeits the Award by failing to meet the conditions of this Invitation to Bid, the Town may, at the Town's sole option, award the agreement to the next lowest Responsive and Responsible bidder or reject all bids or re-advertise the Work.

The Town, at its sole discretion, may consider the lowest and responsive bidder as the bidder who has the lowest bid amount for: BEL AIRE, EUREKA DRIVE ESTS, CUTLER COUNTRY GROVES, ALLOM ESTS, AND SOUTH GROVE WATER QUALITY IMPROVEMENT PROJECT.

**9. COST OF BIDS**

All expenses involved with the preparation and submission of Bids to the Town or any work performed in connection therewith, shall be borne by the Bidder(s). No payment shall be made for any responses received, nor for any other effort required of or made by the Bidder(s) prior to commencement of work as defined by the Agreement duly approved by the Town Council.

**10. QUALIFICATION OF BIDDERS**

Each Bidder shall submit a completed Qualification Statement utilizing the form attached.

**11. RIGHT TO REJECT BIDS**

The Town of Cutler Bay reserves the right to accept or reject any and/or all Bids to workshop or negotiate any and all Bids, to waive irregularities, and to request re-Bids on the required materials or services.

**12. RETURN OF THE BID GUARANTY**

All Bid Guarantees of unsuccessful Bidders will be returned after the Agreement is awarded and executed.

**13. EXECUTION OF CONTRACT**

The successful Bidder(s) shall, within ten (10) days of receipt of a written notice of the Award of the Agreement, deliver to the Town a fully executed Agreement and all requested certificates of insurance and bonds.

**14. FORFEITURE OF BID GUARANTY FOR FAILURE TO EXECUTE CONTRACT**

The failure of the successful Bidder(s) to execute an Agreement and submit required insurance certificates and bonds will result in forfeit of the Award. Each Bidder agrees in advance that the Town will sustain certain damages too difficult to accurately ascertain. Accordingly, if the Award is forfeited under this Section, the amount of the Bid Guaranty of the forfeiting Bidder will be retained by the Town, not as forfeiture or a penalty, but as liquidated damages.

**15. TIME AND AWARD**

The Bidder agrees to abide by the overall and unit prices quoted in the Bid for up to ninety (90) days from the date of bid opening to allow for the Town review, award, and execute the Agreement.

**16. INTERPRETATION AND CLARIFICATION**

All questions about the meaning or intent of the Bid Documents and specifications shall be directed in writing to the Town Clerk's Office, Mauricio Melinu, CMC at 10720 Caribbean Blvd., Suite No. 105, Cutler Bay, Florida 33189 or e-mail: MMelinu@cutlerbay-fl.gov. All correspondences whether in writing or through e-mail must be titled: "**BEL AIRE, EUREKA DRIVE ESTS, CUTLER COUNTRY GROVES, ALLOM ESTS, AND SOUTH GROVE WATER QUALITY IMPROVEMENTS PROJECT**". Interpretation or clarifications considered necessary by the Town in response to such questions will be issued by means of addenda electronically mailed or delivered to all parties that are on record with the Town Clerk as having requested and received the Bid Documents. Provided however that it is each Bidder's sole responsibility to be informed of any changes to the Invitation To Bid in the form of written addenda and the Town shall not be responsible for any Bidder's failure to receive same. The Town has the right to rely on all Bids received and the submittal of a Bid shall represent the Bidder's acknowledgement that he has read and understood the Invitation to Bid and any addenda thereto. Written questions must be received by **TUESDAY, APRIL 9, 2024, at 1:00 PM**. Only questions answered by written addenda shall be binding. Oral and other interpretation or clarifications shall be without legal effect.

**17. BID MODIFICATIONS**

No modifications shall be submitted by Bidder or accepted by the Town.

**18. WITHDRAWAL OF A BID**

A Bidder may withdraw his Bid at any date and time prior to the time the Bids are scheduled to be opened. Notice of withdrawal should be made in writing to the Town Clerk's Office, Mauricio Melinu, CMC at 10720 Caribbean Blvd., Suite No. 105, Cutler Bay, Florida 33189.

**19. OPENING OF BIDS**

Bids will be publicly opened and read aloud at the appointed time and place stated in the Invitation to Bid/Request for Proposals. Late Bids will not be considered. No responsibility will be attached to any Town Staff for the premature opening of a Bid not properly addressed and identified. Bidders or their authorized agents are invited to be present at the bid opening.

**20. PUBLIC ENTITY CRIMES ACT**

In accordance with the Public Entity Crimes Act, (Section 287.133, Florida Statutes) a person or affiliate who is a contractor, who had been placed on the convicted vendor list following a conviction for a public entity crime may not submit a bid on a contract to provide any goods or services to the Town, may not submit a bid on a contract with a public entity for the construction or repair of a public building or public work, may not submit bids on leases or real property to the Town, may not be awarded or perform work as a contractor, supplier, subcontractor, or consultant under a contract with any public entity, and may not transact business with the Town in excess of the threshold amount provided in Section 287.917, Florida Statutes, for Category Two for a period of 36 months form the date of being placed on the convicted vendor list. Violation of this section by the Contractor shall result in rejection of the Bid, termination of the contract, and may cause Contractor debarment.

**21. TOWN LICENSES, PERMITS AND FEES**

In accordance with the Public Bid Disclosure Act, 218.80, Florida Statutes, each license, permit, or fee a Contractor will have to pay the Town before or during the Work or the percentage method or unit method of all licenses, permits and fees required by the Town and payable to the Town by virtue of the Work as part of the Agreement are as follows:

21.1 Contractor shall have and maintain during the term of the Agreement all appropriate Town licenses, and fees for which shall be paid in full in accordance with the Town's Fee structure for such licenses. **THERE WILL NOT BE ANY PERCENTAGE REDUCTION OR WAIVING OF TOWN LICENSE FEES.**

21.2 During the performance of the Agreement there may be times when the Contractor will be required to obtain a Town permit for the Work. It is the responsibility of the Contractor to ensure that he or she has the appropriate Town permits to perform such Work as may become necessary during the performance of the Agreement. Any fees related to Town required permits in connection with the Agreement will be the responsibility of the Contractor and will not be reimbursed by the Town. Licenses, permits, and fees that may be required by County, State or Federal entities are not included in the above list.

**22. INSURANCE**

The Bidder shall be required to provide and maintain insurance coverage of such types and amounts as specified in Section 6 of the Agreement. The Bidder shall include with his or her Bid either Certificates of Insurance evidencing same or documentation from his or her insurer evidencing the insurability of the Bidder to meet the insurance requirements.

**23. BONDS**

A Performance and a Payment Bond for the entire base bid amount shall be required in connection with this contract.

**24. FAMILIARITY WITH LAWS**

The Bidder is assumed to be familiar with all applicable Federal, State, and local laws, ordinances, rules, and regulations that may in any manner affect the Work.



**25. EXAMINATION OF BIDDER'S FACILITIES**

The Town, as part of its evaluation may perform an examination of the Bidder's facilities. The Town Manager or designee, as part of the evaluation, may perform this examination.

The term facilities as used in this solicitation shall include, but shall not be limited to, all properties operated by the Bidder, all equipment used in the performance of business by the Bidder, and/or any other evidence, tangible or intangible, that the Town may deem necessary to substantiate the technical and other qualifications, and the abilities of the Bidder to perform the Work.

The examination shall include, but shall not be limited to, appearance and cleanliness of facilities, appearance, and cleanliness of equipment, "road worthiness" of vehicles, appearance, and visibility of all signage on vehicles, and possession and distribution of mandatory equipment. Vehicles shall be examined for compliance with State of Florida Statutes, as well as applicable County and Town Ordinances. Additionally, examination may include verification of some of the (physical) minimum requirements for Bidders. Additionally, the Town reserves the right to perform such examinations on the successful Bidder as often as it deems necessary, to ensure proper performance of the proposed Agreement.

**26. ALLOWANCES**

Included in the contract sum is an allocation account for unforeseen conditions, potential construction changes and quantity adjustments, and additional work or materials that the Town may deem necessary if ordered and authorized by the Town in accordance with the Contract Documents.

**27. CAMPAIGN FINANCE RESTRICTIONS ON VENDORS**

Pursuant to Town Code Chapter 24, Article II, Section 24-228 of the Town Charter, vendors of the Town are required to disclose any campaign contributions to the Town Clerk, and each vendor must do so prior to and as a condition of the award of any Town contract to the vendor.

Vendors' Campaign Contribution Disclosure:

1. General requirements:

- A) Any vendor required to disclose campaign contributions pursuant to the Charter of the Town of Cutler Bay, as may be amended, shall file a written disclosure with the Town Clerk, stating all contributions made that were accepted by an elected official of the Town, the official to whom they were made and the date they were made. The Town Clerk may develop a form to be used by vendors for such disclosure.
- B) The disclosure shall be filed prior to and as a condition of the award of any Town contract to the Vendor.
- C) The Town Clerk shall inform the Council of any disclosures which were made in relation to any items before the Council prior to the hearing on the item or prior to the award of the contract.
- D) If an existing vendor makes a contribution the vendor must report the same to the clerk within ten days of its acceptance or prior to being awarded any additional contract or renewal, whichever occurs first.

- E) The Town Clerk shall file a quarterly report with the Council, which lists all the vendor disclosures in the quarter.

2. Disqualification:

- A) As per Section 7.6 of the Town Charter, if a Vendor of products or services who directly or through a member of the person's immediate family or through a political action committee or through any other person makes a campaign contribution to a Town candidate and fails to disclose it then he/she/it shall be barred from selling any product or service to the town for a period of two years following the swearing in of the subject elected official.

**28. CONE OF SILENCE**

Notwithstanding any other provision of these specifications, the provisions of Town "Cone of Silence" are applicable to this transaction. The entirety of these provisions can be found in the Town Code Chapter 24, Article II, Section 24-228 of the Town Charter. The "Cone of Silence," as used herein, means a prohibition on any communication regarding a particular Request for Proposal ("RFP"), Request for Qualification ("RFQ") or bid, between:

- 1. A potential vendor, service provider, proposer, bidder, lobbyist, or consultant; and
- 2. The Town Council, Town's professional staff including, but not limited to, the Town Manager and his or her staff, any member of the Town's selection or evaluation committee.

The Cone of Silence shall be imposed upon each RFQ, RFP and bid after the advertisement of said RFQ, RFP, or bid. The Cone of Silence shall terminate at the beginning of the Town Council meeting at which time the Town Manager makes his or her written recommendation to the Town Council. However, if the Town Council refers the Manager's recommendation back to the Manager or staff for further review, the Cone of Silence shall be re-imposed until such time as the Manager makes a subsequent written recommendation.

The Cone of Silence shall not apply to:

- a. Oral communications at pre-bid conferences;
- b. Oral presentations before selection or evaluation committees;
- c. Public presentations made to the Town Council during any duly noticed public meeting;
- d. Communication in writing at any time with any Town employee, unless specifically prohibited by the applicable RFQ, RFP or bid documents. The bidder or proposer shall file a copy of any written communication with the Town Clerk. The Town Clerk shall make copies available to any person upon request;
- e. Communications regarding a particular RFQ, RFP or bid between a potential vendor, service provider, proposer, bidder, lobbyist or consultant and the Town's Purchasing Agent or Town employee designated responsible for administering the procurement process for such RFQ, RFP or bid, provided the communication is limited strictly to matters of process or procedure already contained in the corresponding solicitation document;

- f. Communications with the Town Attorney and his or her staff;
- g. Duly noticed site visits to determine the competency of bidders regarding a particular bid during the time period between the opening of bids and the time the Town Manager makes his or her written recommendation;
- h. Any emergency procurement of goods or services pursuant to Town Code;
- i. Responses to the Town's request for clarification or additional information;
- j. Communications to enable Town staff to seek and obtain industry comment or perform market research, provided all communications related thereto between a potential vendor, service provider, proposer, bidder, lobbyist, or consultant and any member of the Town's professional staff including, but not limited to, the Town Manager and his or her staff are in writing or are made at a duly noticed public meeting.

Please contact the Town Attorney for any questions concerning Cone of Silence compliance. Violation of the Cone of Silence by a particular bidder or proposer shall render any RFQ award, RFP award or bid award to said bidder or proposer voidable by the Town Council and/or Town Manager.

**29. LOBBYIST REGISTRATION**

Proposers must also comply with all Town Charter sections and Code provisions that pertain to lobbyists, including Section 7.6 of the Town Charter and implementing ordinance(s), including Sec. 2-11(s) of the Town Code and Ordinance 07-02. Please contact the Town Clerk at (305) 234-4262 for additional information.

**30. PROTEST PROCEDURES**

With respect to a protest of the terms, conditions, and specifications contained in a solicitation (RFP, RFQ, or Bid), including any provisions governing the methods for ranking bids, proposals, or replies, awarding contracts, reserving rights of further negotiation, or modifying or amending any contract, the notice of protest shall be filed pursuant to Town Code Chapter 24, Article II Division 8 Section 24-199.

**31. PUBLIC RECORDS LAW**

- a. Contractor agrees to keep and maintain public records in CONTRACTOR's possession or control in connection with CONTRACTOR's performance under this Agreement. CONTRACTOR additionally agrees to comply specifically with the provisions of Section 119.0701, Florida Statutes. CONTRACTOR shall ensure that public records that are exempt or confidential and exempt from public records disclosure requirements are not disclosed, except as authorized by law, for the duration of the Agreement, and following completion of the Agreement until the records are transferred to the TOWN.
- b. Upon request from the TOWN's custodian of public records, CONTRACTOR shall provide the TOWN with a copy of the requested records or allow the records to be inspected or copied within a reasonable time at a cost that does not exceed the cost provided by Chapter 119, Florida Statutes, or as otherwise provided by law.

- c. Unless otherwise provided by law, any and all records, including but not limited to reports, surveys, and other data and documents provided or created in connection with this Agreement are and shall remain the property of the TOWN.
- d. Upon completion of this Agreement or in the event of termination by either party, any and all public records relating to the Agreement in the possession of the CONTRACTOR shall be delivered by the CONTRACTOR to the TOWN MANAGER, at no cost to the TOWN, within seven (7) days. All such records stored electronically by CONTRACTOR shall be delivered to the TOWN in a format that is compatible with the TOWN's information technology systems. Once the public records have been delivered upon completion or termination of this Agreement, the CONTRACTOR shall destroy any and all duplicate public records that are exempt or confidential and exempt from public records disclosure requirements.
- e. Any compensation due to CONTRACTOR shall be withheld until all records are received as provided herein.
- f. CONTRACTOR's failure or refusal to comply with the provisions of this section shall result in the immediate termination of this Agreement by the TOWN.

**Section 119.0701(2)(a), Florida Statutes**

**IF THE CONTRACTOR HAS QUESTIONS REGARDING THE APPLICATION OF CHAPTER 119, FLORIDA STATUTES, TO THE CONTRACTOR'S DUTY TO PROVIDE PUBLIC RECORDS RELATING TO THIS CONTRACT, CONTACT THE CUSTODIAN OF PUBLIC RECORDS.**

**Custodian of Records:**    **Mauricio Melinu, CMC**  
   **Town Clerk**  
**Mailing address:**         **10720 Caribbean Boulevard**  
   **Suite 105**  
   **Cutler Bay, FL 33189**  
**Telephone number:**     **(305) 234-4262**  
**Email:**                         [MMelinu@cutlerbay-fl.gov](mailto:MMelinu@cutlerbay-fl.gov)

**[END OF SECTION]**

**SECTION 00300**

**PROPOSAL**

**BEL AIRE, EUREKA DRIVE ESTS, CUTLER COUNTRY GROVES, ALLOM ESTS, AND  
SOUTH GROVE WATER QUALITY IMPROVEMENT PROJECT  
TOWN OF CUTLER BAY, FLORIDA**

Town Clerk's Office  
Town of Cutler Bay  
10720 Caribbean Boulevard  
Suite 105  
Cutler Bay, Florida 33189

The undersigned, as Bidder, hereby declares that the only person or persons interested in the Proposal, as principal or principals, is or are named herein and that no other person than herein mentioned has any interest in the Proposal of the Contract to which the work pertains; that this Proposal is made without connection or arrangement with any other person, company, or parties making a bid or proposal and that the Proposal is in all respects fair and made in good faith without collusion or fraud.

The Bidder certifies that the bidder is not a nonresident alien, or a foreign corporation/entity formed under the laws of a country other than the United States.

The Bidder further declares that he has examined the site of the work and that from personal knowledge and experience, or that he has made sufficient observations of the conditions of the proposed Project Site to satisfy himself that such site is a correct and suitable one for this work and he assumes full responsibility therefore, that he has examined the Drawings and Specifications for the work and from his own experience or from professional advice that the Drawings, including bid item quantities, and Specifications are sufficient for the work to be done and he has examined the other Contractual Documents relating thereto, including the Notice of Bid Invitation, Instructions to Bidders, Proposal, Contract, Special Conditions, Technical Specifications, Drawings and has read all addenda prior to the receipt of bids, and that he has satisfied himself fully, relative to all matters and conditions with respect to the work to which this Proposal pertains.

The Bidder proposes and agrees, if this Proposal is accepted, to contract with the Town of Cutler Bay (Owner), in the form of contract specified, to furnish all necessary materials, all equipment, all necessary machinery, tools, apparatus, means of transportation, and labor necessary to complete the work specified in the Proposal and the Contract, and called for by the Drawings and Specifications and in the manner specified.

***NOTE: THIS SCHEDULE OF BID ITEMS IS MERELY ILLUSTRATIVE OF THE MINIMUM AMOUNT/QUANTITY OF WORK TO BE PERFORMED UNDER THE CONTRACT. IN THE CASE OF ANY CONFLICT BETWEEN THIS SCHEDULE OF BID ITEMS AND THE DETAILED SPECIFICATIONS, THE DETAILED SPECIFICATIONS WILL PREVAIL.***

The Bidder further proposes and agrees to comply in all respects with the time limits for commencement and completion of the work as stated in the Contract Form.

The Bidder further agrees that the deductions for liquidated damages, as stated in the Contract Form, constitute fixed, agreed, and liquidated damages to reimburse the Owner for additional costs to the Owner resulting from the work not being completed within the time limit stated in the Contract Form.

Payment Bonds each in the amount of one-hundred percent of the Contract price, within ten (10) consecutive calendar days after written notice being given by the Owner of the award of the Contract, and the undersigned agrees that in case of failure on his part to execute the said Contract and Performance and Payment Bonds within the ten (10) consecutive calendar days after the award of the Contract, the cashier's check or Bid Bond accompanying his bid and the money payable thereon shall be paid to the Owner as liquidation of damages sustained by the Owner; otherwise, the check accompanying the Proposal shall be returned to the undersigned after the Contract is signed and the Performance and Payment Bonds are filed.

Bidders Certificate of Competency No. \_\_\_\_\_

Bidders Occupational License No. \_\_\_\_\_

Acknowledgment is hereby made of the following Addenda received since issuance of the Project Manual:

Addendum No. \_\_\_\_\_ Dated: \_\_\_\_\_ Addendum No. \_\_\_\_\_ Dated: \_\_\_\_\_

Addendum No. \_\_\_\_\_ Dated: \_\_\_\_\_ Addendum No. \_\_\_\_\_ Dated: \_\_\_\_\_

Addendum No. \_\_\_\_\_ Dated: \_\_\_\_\_ Addendum No. \_\_\_\_\_ Dated: \_\_\_\_\_

Attached hereto is a cashier's check on the \_\_\_\_\_  
\_\_\_\_\_ Bank of \_\_\_\_\_  
\_\_\_\_\_ or Bid Bond for the sum of \_\_\_\_\_  
\_\_\_\_\_ Dollars

(\$ \_\_\_\_\_), made payable to the Town of Cutler Bay, Florida.

\_\_\_\_\_  
(Name of Bidder) (Affix Seal) L.S.

\_\_\_\_\_  
Signature of Officer L.S.

\_\_\_\_\_  
(Title of Officer) L.S.

Address: \_\_\_\_\_

City: \_\_\_\_\_ State: \_\_\_\_\_

The full names and residences of persons and firms interested in the foregoing bid, as principals, are as follows:

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Name of the executive who will give personal attention to the work:

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**LIST OF MAJOR SUB-CONTRACTORS**

Bidders are required to list with the Proposal, on this sheet all major sub-contractors included for the prosecution of the work. Failure to complete the list may be cause for declaring the Proposal irregular.

The successful bidder shall employ the sub-contractors listed hereunder for the class of work indicated, which list shall not be modified in any way without the written consent of the Town of Cutler Bay.

The Bidder expressly agrees that:

1. If awarded a contract as a result of this proposal, the major sub-contractors used in the prosecution of the work will be those listed below.
2. The Bidder represents that the sub-contractors listed below are financially responsible and are qualified to do the work required.

CATEGORY OF CLASS	NAME OF SUB-CONTRACTOR	ADDRESS OF WORK

**TOWN OF CUTLER BAY  
BEL AIRE, EUREKA DRIVE ESTS, CUTLER COUNTRY GROVES,  
ALLOM ESTS, AND SOUTH GROVE WATER QUALITY  
IMPROVEMENT PROJECT  
ITB No. 24-02**

**BID FORM**

The following Bid Proposal is presented to assist the Town in evaluating the Bid. The Bid Amounts will include all items described in the Bid Documents (Detailed Specifications). Payment shall be made on the basis of Work actually performed and completed.

**The Base Bid Amount includes all work on BEL AIRE, EUREKA DRIVE ESTS, CUTLER COUNTRY GROVES, ALLOM ESTS, AND SOUTH GROVE WATER QUALITY IMPROVEMENT PROJECT:**

**BASE BID AMOUNT \$** \_\_\_\_\_

**BASE BID AMOUNT (IN WORDS)** \_\_\_\_\_

\_\_\_\_\_

**Taxpayer Identification Number:** \_\_\_\_\_

**BIDDER:**

\_\_\_\_\_  
(Company Name)

\_\_\_\_\_  
(Signature of Authorized Representative)

\_\_\_\_\_  
(Printed Name and Title)

\_\_\_\_\_  
(Company Address)

\_\_\_\_\_  
(Company Phone Number)

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**BEL AIRE, EUREKA DRIVE ESTS, CUTLER COUNTRY GROVES, ALLOM ESTS AND SOUTH GROVE WATER QUALITY IMPROVEMENT PROJECT**

**Town of Cutler Bay, Florida Town  
Project No. ITB No. 24-02**

**BID FORM**

The following Bid is presented to assist the Town in evaluating the Bid. The Total Bid Amount will include all items described in the Bid Documents. Bid unit prices stated in this proposal include all costs and expenses for labor, equipment, materials, swale restoration, clearing and grubbing, demolition, debris removal, disposal, root pruning, preparation, compaction, restoration, temporary striping, inlet protection (Baled Hay, Straw, or Filter Fabric), contractor's overhead and profit. Unit prices for the various work items are intended to establish a total price for completing the project in its entirety. At the end of the project the contractor shall furnish as-built plans signed and sealed by a professional land surveyor to the Town of Cutler Bay. The contractor shall include in the Bid price any work item and materials for which a separate pay item has not been included in the Bid Form. All work and incidental costs shall be included for payment under the several scheduled items of the overall contract, and no separate payment will be made thereof.

Payment shall be made on the basis of Work actually performed and completed.

ITEM	DESCRIPTION- <b>AREA #1</b>	QTY	UNIT	UNIT PRICE	AMOUNT
<b>BEL AIRE, EUREKA DRIVE ESTS, CUTLER COUNTRY GROVES, ALLOM ESTS AND SOUTH GROVE WATER QUALITY IMPROVEMENT-AREA #1</b>					
101-1	MOBILIZATION	1	LS	\$	\$
102-1	MAINTENANCE OF TRAFFIC	1	LS	\$	\$
102-14	TRAFFIC CONTROL OFFICER ALLOWANCE	300	HR	\$	\$
104-18	INLET PROTECTION SYSTEM (EXISTING INLETS)	59	EA	\$	\$
110-1-1	CLEARING AND GRUBBING	1	LS	\$	\$
110-4-10	REMOVAL OF EXISTING CONCRETE + (30% CONTINGENCY)	2,365	SY	\$	\$
120-4	SUBSOIL EXCAVATION (CONTINGENCY)	100	CY	\$	\$
120-6	EMBANKMENT (CONTINGENCY)	100	CY	\$	\$
125-1	EXCAVATION FOR STRUCTURES AND SOLID PIPES	5,825	CY	\$	\$
160-4	TYPE B STABILIZATION	6,150	SY	\$	\$
285-704	LIMEROCK BASE (6") (OPTIONAL BASE,BASE GROUP 04)	30	SY	\$	\$
285-706	LIMEROCK BASE (8") (OPTIONAL BASE,BASE GROUP 06)	7,300	SY	\$	\$
327-70-16	MILLING EXISTING ASPHALT PAVEMENT (1/2" AVG. DEPTH)	29,572	SY	\$	\$
334-1-13	SUPERPAVE ASPHALTIC CONC, TRAFFIC C, SP-9.5 (1") + (10% CONTINGENCY)	2,760	TN	\$	\$
425-1-2B	SD-3.1 SWALE INLET TYPE D-1 (17" x 27") < 10' (M-DPWD PAY ITEM)	53	EA	\$	\$

425-1-2-A	SD-2.2 SWALE INLET TYPE D-3 (36" Dia.) > 10' (M-DPWD PAY ITEM)	3	EA	\$	\$
425-1-481	INLETS, CURB, TYPE 8, <10'	8	EA	\$	\$
425-1-482	INLETS, CURB, TYPE 8, >10'	2	EA	\$	\$
425-1-604	SD-2.7 SWALE INLETS (TYPE-P), <10' (M-DPWD PAY ITEM)	5	EA	\$	\$
425-1-605	SD-2.7 SWALE INLETS (TYPE-P), >10' (M-DPWD PAY ITEM)	1	EA	\$	\$
425-2-41	SD-2.7 MANHOLES, P-7, < 10' (M-DPWD PAY ITEM)	19	EA	\$	\$
425-2-42	SD-2.7 MANHOLES, P-7, > 10' (M-DPWD PAY ITEM)	5	EA	\$	\$
425-2-71	SD-2.6 MANHOLES, J-7, < 10' (M-DPWD PAY ITEM)	12	EA	\$	\$
425-2-72	SD-2.6 MANHOLES, J-7, > 10' (M-DPWD PAY ITEM)	3	EA	\$	\$
425-5	MANHOLE, ADJUST	38	EA	\$	\$
425-6	VALVE BOXES, ADJUST	28	EA	\$	\$
425-79	CORE AND TIE-IN TO EXISTING DRAIN STRUCTURE (18" PIPE, INCL. MORTAR SEAL) (M-DPWD PAY ITEM)	5	EA	\$	\$
430-94-1	DESILTING PIPE, 0 - 24"	2,600	LF	\$	\$
430-94-2	DESILTING PIPE, 25 - 36"	250	LF	\$	\$
430-174-118	PIPE CULVERT, OPTIONAL MATERIAL, ROUND, 18"SD (HDPE)	2,430	LF	\$	\$
443-70-3	EXFILTRATION DRAIN (18")	3,585	LF	\$	\$
520-1-10	CONCRETE CURB & GUTTER, TYPE F/DROP CURB	270	LF	\$	\$
520-2-4	CONCRETE CURB, TYPE D	60	LF	\$	\$
522-2	CONCRETE SIDEWALK (6" THICK) (SIDEWALK, RAMP, APRON, DRIVEWAY & SALB) + (30% CONTINGENCY)	4,450	SY	\$	\$
526-1-1	PAVERS, ARCHITECTURAL, ROADWAY (DRIVEWAY APPROACHES) (CONTINGENCY)	65	SY	\$	\$
527-2	DETECTABLE WARNINGS	550	SF	\$	\$
570-1-2	PERFORMANCE TURF, SOD	8,560	SY	\$	\$
1080-211	UTILITY FIXTURE, VALVE/METER BOX, FURNISH & INSTALL	12	EA	\$	\$
	CONCRETE CURB BORDER FOR PAVEDRAIN	290	LF	\$	\$
	PAVERDRAIN	545	SY	\$	\$
710-11-101	PAINTED PAVEMENT MARKINGS, STANDARD, WHITE, SOLID, 6"	0.27	GM	\$	\$
710-11-123	PAINTED PAVEMENT MARKINGS, STANDARD, WHITE, SOLID FOR CROSSWALK AND ROUNDABOUT, 12"	2,560	LF	\$	\$
710-11-124	PAINTED PAVEMENT MARKINGS, STANDARD, WHITE, SOLID FOR DIAGONAL OR CHEVRON, 18"	165	LF	\$	\$
710-11-125	PAINTED PAVEMENT MARKINGS, STANDARD, WHITE, SOLID FOR STOP LINE OR CROSSWALK, 24"	1,860	LF	\$	\$
710-11-141	PAINTED PAVEMENT MARKINGS, STANDARD, WHITE, 6-10 DOTTED EXTENSION, 6"	0.02	GM	\$	\$

710-11-160	PAINTED PAVEMENT MARKINGS, STANDARD, WHITE, MESSAGE ORSYMBOL	2.00	EA	\$	\$
710-11-170	PAINTED PAVEMENT MARKINGS, STANDARD, WHITE, ARROWS	1.00	EA	\$	\$
710-11-201	PAINTED PAVEMENT MARKINGS, STANDARD, YELLOW, SOLID, 6"	1.25	GM	\$	\$
710-11-231	PAINTED PAVEMENT MARKINGS, STANDARD, YELLOW, SKIP, 6"	0.35	GM	\$	\$
700-1-11	SINGLE POST SIGN, F&I GROUND MOUNT, UP TO 12 SF	6	AS	\$	\$
700-1-50	SINGLE POST SIGN, RELOCATE	12	AS	\$	\$
700-1-60	SINGLE POST SIGN, REMOVE	3	AS	\$	\$
700-3-101	SIGN PANEL, INSTALL, UP TO 12 SF	3	AS	\$	\$
700-3-501	SIGN PANEL, RELOCATE, UP TO 12 SF	1	EA	\$	\$
706-1-1	RAISED PAVEMENT MARKER, TYPE B WITHOUT FINAL SURFACE MARKINGS (Y/Y, W/R & BLUE)	210	EA	\$	\$
711-11-123	THERMOPLASTIC, STANDARD, WHITE, SOLID, 12" FOR CROSSWALK AND ROUNDABOUT	2,560	LF	\$	\$
711-11-124	THERMOPLASTIC, STANDARD, WHITE, SOLID, 18" FOR DIAGONALS AND CHEVRONS	165	LF	\$	\$
711-11-125	THERMOPLASTIC, STANDARD, WHITE, SOLID, 24" FOR STOP LINE AND CROSSWALK	1,860	LF	\$	\$
711-11-141	THERMOPLASTIC, STANDARD, WHITE, 2-4 DOTTED GUIDELINE/ 6-10 GAP EXTENSION, 6"	0.02	GM	\$	\$
711-11-160	THERMOPLASTIC, STANDARD, WHITE, MESSAGE OR SYMBOL	2.00	EA	\$	\$
711-11-170	THERMOPLASTIC, STANDARD, WHITE, ARROW	1.00	EA	\$	\$
711-16-101	THERMOPLASTIC, STANDARD-OTHER SURFACES, WHITE, SOLID, 6"	0.27	GM	\$	\$
711-16-201	THERMOPLASTIC, STANDARD-OTHER SURFACES, YELLOW, SOLID, 6"	1.25	GM	\$	\$
711-16-231	THERMOPLASTIC, STANDARD-OTHER SURFACES, YELLOW, SKIP, 6"	0.35	GM	\$	\$
	CONTINGENCY FUND (15% OF SUBTOTAL GENERAL)	1	LS	\$	
<b>Area #1 Construction Total</b>				\$	

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ITEM	DESCRIPTION- <b>AREA #2</b>	QTY	UNIT	UNIT PRICE	AMOUNT
<b>BEL AIRE, EUREKA DRIVE ESTS, CUTLER COUNTRY GROVES, ALLOM ESTS, AND SOUTH GROVE WATER QUALITY IMPROVEMENT -AREA #2</b>					
101-1	MOBILIZATION	1	LS	\$	\$
102-1	MAINTENANCE OF TRAFFIC	1	LS	\$	\$
102-14	TRAFFIC CONTROL OFFICER ALLOWANCE	250	HR	\$	\$
104-18	INLET PROTECTION SYSTEM (EXISTING INLETS)	15	EA	\$	\$
110-1-1	CLEARING AND GRUBBING	1	LS	\$	\$
110-4-10	REMOVAL OF EXISTING CONCRETE + <b>(30% CONTINGENCY)</b>	1,800	SY	\$	\$
110-7-1	MAILBOX, F&I SINGLE	1	EA	\$	\$
120-4	SUBSOIL EXCAVATION ( <b>CONTINGENCY</b> )	100	CY	\$	\$
120-6	EMBANKMENT ( <b>CONTINGENCY</b> )	100	CY	\$	\$
125-1	EXCAVATION FOR STRUCTURES AND SOLID PIPES	3,360	CY	\$	\$
160-4	TYPE B STABILIZATION	2,260	SY	\$	\$
285-704	LIMEROCK BASE (6") (OPTIONAL BASE,BASE GROUP 04)	35	SY	\$	\$
285-706	LIMEROCK BASE (8") (OPTIONAL BASE,BASE GROUP 06)	2,260	SY	\$	\$
327-70-16	MILLING EXISTING ASPHALT PAVEMENT (1/2" AVG. DEPTH)	14,360	SY	\$	\$
334-1-13	SUPERPAVE ASPHALTIC CONC, TRAFFIC C, SP-9.5 (1") + <b>(10% CONTINGENCY)</b>	1,060	TN	\$	\$
425-1-2B	SD-3.1 SWALE INLET TYPE D-1 (17" x 27") < 10' ( <b>M-DPWD PAY ITEM</b> )	26	EA	\$	\$
425-1-2-A	SD-2.2 SWALE INLET TYPE D-3 (36" Dia.) > 10' ( <b>M-DPWD PAY ITEM</b> )	8	EA	\$	\$
425-1-481	INLETS, CURB, TYPE 8, <10'	3	EA	\$	\$
425-1-482	INLETS, CURB, TYPE 8, >10'	2	EA	\$	\$
425-1-604	SD-2.7 SWALE INLETS (TYPE-P), >10' ( <b>M-DPWD PAY ITEM</b> )	1	EA	\$	\$
425-2-41	SD-2.7 MANHOLES, P-7, < 10' ( <b>M-DPWD PAY ITEM</b> )	16	EA	\$	\$
425-2-42	SD-2.7 MANHOLES, P-7, > 10' ( <b>M-DPWD PAY ITEM</b> )	3	EA	\$	\$
425-2-71	SD-2.6 MANHOLES, J-7, < 10' ( <b>M-DPWD PAY ITEM</b> )	1	EA	\$	\$
425-2-72	SD-2.6 MANHOLES, J-7, > 10' ( <b>M-DPWD PAY ITEM</b> )	1	EA	\$	\$
425-5	MANHOLE, ADJUST	22	EA	\$	\$
425-6	VALVE BOXES, ADJUST	15	EA	\$	\$
430-94-1	DESILTING PIPE, 0 - 24"	560	LF	\$	\$

430-174-115	PIPE CULVERT, OPTIONAL MATERIAL, ROUND, 15"SD	10	LF	\$	\$
430-174-118	PIPE CULVERT, OPTIONAL MATERIAL, ROUND, 18"SD (HDPE)	1,065	LF	\$	\$
443-70-3	EXFILTRATION DRAIN (18")	1,420	LF	\$	\$
522-2	CONCRETE SIDEWALK (6" THICK) (SIDEWALK, RAMP, APRON, DRIVEWAY & SALB) + (30% CONTINGENCY)	2,850	SY	\$	\$
526-1-1	PAVERS, ARCHITECTURAL, ROADWAY (CONTINGENCY)	45	SY	\$	\$
527-2	DETECTABLE WARNINGS	170	SF	\$	\$
570-1-2	PERFORMANCE TURF, SOD	4,800	SY	\$	\$
1080-211	UTILITY FIXTURE, VALVE/METER BOX, FURNISH & INSTALL	22	EA	\$	\$
710-11-101	PAINTED PAVEMENT MARKINGS, STANDARD, WHITE, SOLID, 6"	0.07	GM	\$	\$
710-11-123	PAINTED PAVEMENT MARKINGS, STANDARD, WHITE, SOLID FOR CROSSWALK AND ROUNDABOUT, 12"	830	LF	\$	\$
710-11-125	PAINTED PAVEMENT MARKINGS, STANDARD, WHITE, SOLID FOR STOP LINE OR CROSSWALK, 24"	130	LF	\$	\$
710-11-201	PAINTED PAVEMENT MARKINGS, STANDARD, YELLOW, SOLID, 6"	0.55	GM	\$	\$
700-1-11	SINGLE POST SIGN, F&I GROUND MOUNT, UP TO 12 SF	8	AS	\$	\$
700-1-50	SINGLE POST SIGN, RELOCATE	2	AS	\$	\$
706-1-1	RAISED PAVEMENT MARKER, TYPE B WITHOUT FINAL SURFACE MARKINGS (Y/Y, W/R & BLUE)	100	EA	\$	\$
711-11-123	THERMOPLASTIC, STANDARD, WHITE, SOLID, 12" FOR CROSSWALK AND ROUNDABOUT	830	LF	\$	\$
711-11-125	THERMOPLASTIC, STANDARD, WHITE, SOLID, 24" FOR STOP LINE AND CROSSWALK	130	LF	\$	\$
711-16-101	THERMOPLASTIC, STANDARD-OTHER SURFACES, WHITE, SOLID, 6"	0.07	GM	\$	\$
711-16-201	THERMOPLASTIC, STANDARD-OTHER SURFACES, YELLOW, SOLID, 6"	0.55	GM	\$	\$
	CONTINGENCY FUND (15% OF SUBTOTAL GENERAL)	1	LS	\$	
<b>Area #2 Construction Total</b>		<b>\$</b>			

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ITEM	DESCRIPTION- <b>AREA #3</b>	QTY	UNIT	UNIT PRICE	AMOUNT
<b>BEL AIRE, EUREKA DRIVE ESTS, CUTLER COUNTRY GROVES, ALLOM ESTS, AND SOUTH GROVE WATER QUALITY IMPROVEMENT-AREA #3</b>					
101-1	MOBILIZATION	1	LS	\$	\$
102-1	MAINTENANCE OF TRAFFIC	1	LS	\$	\$
102-14	TRAFFIC CONTROL OFFICER ALLOWANCE	50	HR	\$	\$
104-18	INLET PROTECTION SYSTEM (EXISTING INLETS)	17	EA	\$	\$
110-1-1	CLEARING AND GRUBBING	1	LS	\$	\$
110-4-10	REMOVAL OF EXISTING CONCRETE + <b>(30% CONTINGENCY)</b>	145	SY	\$	\$
120-4	SUBSOIL EXCAVATION <b>(CONTINGENCY)</b>	100	CY	\$	\$
120-6	EMBANKMENT <b>(CONTINGENCY)</b>	100	CY	\$	\$
125-1	EXCAVATION FOR STRUCTURES AND SOLID PIPES	750	CY	\$	\$
160-4	TYPE B STABILIZATION	1,400	SY	\$	\$
285-706	LIMEROCK BASE (8") (OPTIONAL BASE,BASE GROUP 06)	1,400	SY	\$	\$
327-70-16	MILLING EXISTING ASPHALT PAVEMENT (1/2" AVG. DEPTH)	1,350	SY	\$	\$
334-1-13	SUPERPAVE ASPHALTIC CONC, TRAFFIC C, SP-9.5 (1")	275	TN	\$	\$
425-1-2B	SD-3.1 SWALE INLET TYPE D-1 (17" x 27") < 10' <b>(M-DPWD PAY ITEM)</b>	3	EA	\$	\$
425-1-604	SD-2.7 SWALE INLETS (TYPE-P), <10' <b>(M-DPWD PAY ITEM)</b>	2	EA	\$	\$
425-2-41	SD-2.7 MANHOLES, P-7, < 10' <b>(M-DPWD PAY ITEM)</b>	4	EA	\$	\$
425-2-42	SD-2.7 MANHOLES, P-7, > 10' <b>(M-DPWD PAY ITEM)</b>	1	EA	\$	\$
425-2-71	SD-2.6 MANHOLES, J-7, < 10' <b>(M-DPWD PAY ITEM)</b>	4	EA	\$	\$
425-5	MANHOLE, ADJUST	5	EA	\$	\$
425-6	VALVE BOXES, ADJUST	2	EA	\$	\$
430-94-1	DESILTING PIPE, 0 - 24	765	LF	\$	\$
430-174-115	PIPE CULVERT, OPTIONAL MATERIAL, ROUND, 15"SD	60	LF	\$	\$
430-174-118	PIPE CULVERT, OPTIONAL MATERIAL, ROUND, 18"SD (HDPE)	175	LF	\$	\$
443-70-3	EXFILTRATION DRAIN (18")	786	LF	\$	\$
522-2	CONCRETE SIDEWALK (6" THICK) (SIDEWALK, RAMP, APRON, DRIVEWAY & SALB) + <b>(30% CONTINGENCY)</b>	450	SY	\$	\$

526-1-1	PAVERS, ARCHITECTURAL, ROADWAY	50	SY	\$	\$
527-2	DETECTABLE WARNINGS (CONTINGENCY)	10	SF	\$	\$
570-1-2	PERFORMANCE TURF, SOD	1,400	SY	\$	\$
710-11-101	PAINTED PAVEMENT MARKINGS, STANDARD, WHITE, SOLID, 6"	0.01	GM	\$	\$
710-11-123	PAINTED PAVEMENT MARKINGS, STANDARD, WHITE, SOLID FOR CROSSWALK AND ROUNDABOUT, 12"	120	LF	\$	\$
710-11-125	PAINTED PAVEMENT MARKINGS, STANDARD, WHITE, SOLID FOR STOP LINE OR CROSSWALK, 24"	25	LF	\$	\$
710-11-201	PAINTED PAVEMENT MARKINGS, STANDARD, YELLOW, SOLID, 6"	0.15	GM	\$	\$
700-1-11	SINGLE POST SIGN, F&I GROUND MOUNT, UP TO 12 SF	3	AS	\$	\$
700-3-601	SIGN PANEL, REMOVE, UP TO 12 SF	1	EA	\$	\$
706-1-1	RAISED PAVEMENT MARKER, TYPE B WITHOUT FINAL SURFACE MARKINGS (Y/Y, W/R & BLUE)	25	EA	\$	\$
711-11-123	THERMOPLASTIC, STANDARD, WHITE, SOLID, 12" FOR CROSSWALK AND ROUNDABOUT	120	LF	\$	\$
711-11-125	THERMOPLASTIC, STANDARD, WHITE, SOLID, 24" FOR STOP LINE AND CROSSWALK	25	LF	\$	\$
711-16-101	THERMOPLASTIC, STANDARD-OTHER SURFACES, WHITE, SOLID, 6"	0.01	GM	\$	\$
711-16-201	THERMOPLASTIC, STANDARD-OTHER SURFACES, YELLOW, SOLID, 6"	0.15	GM	\$	\$
	CONTINGENCY FUND (15% OF SUBTOTAL GENERAL)	1	LS	\$	
<b>Area # 3 Construction Total</b>		<b>\$</b>			

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ITEM	DESCRIPTION- <b>AREA #4</b>	QTY	UNIT	UNIT PRICE	AMOUNT
<b>BEL AIRE, EUREKA DRIVE ESTS, CUTLER COUNTRY GROVES, ALLOM ESTS, AND SOUTH GROVE WATER QUALITY IMPROVEMENT-AREA #4</b>					
101-1	MOBILIZATION	1	LS	\$	\$
102-1	MAINTENANCE OF TRAFFIC	1	LS	\$	\$
102-14	TRAFFIC CONTROL OFFICER ALLOWANCE	100	HR	\$	\$
104-18	INLET PROTECTION SYSTEM (EXISTING INLETS)	18	EA	\$	\$
110-1-1	CLEARING AND GRUBBING	1	LS	\$	\$
110-4-10	REMOVAL OF EXISTING CONCRETE AND PAVERS <b>(CONTINGENCY)</b>	230	SY	\$	\$
110-7-1	MAILBOX, F&I SINGLE	1	EA	\$	\$
120-4	SUBSOIL EXCAVATION <b>(CONTINGENCY)</b>	100	CY	\$	\$
120-6	EMBANKMENT <b>(CONTINGENCY)</b>	100	CY	\$	\$
125-1	EXCAVATION FOR STRUCTURES AND SOLID PIPES	2,300	CY	\$	\$
160-4	TYPE B STABILIZATION	1,950	SY	\$	\$
285-706	LIMEROCK BASE (8") (OPTIONAL BASE,BASE GROUP 06)	1,950	SY	\$	\$
327-70-16	MILLING EXISTING ASPHALT PAVEMENT (1/2" AVG. DEPTH)	6,300	SY	\$	\$
334-1-13	SUPERPAVE ASPHALTIC CONC, TRAFFIC C, SP-9.5 (1" LIFTS)	640	TN	\$	\$
425-1-2B	SD-3.1 SWALE INLET TYPE D-1 (17" x 27") <10' <b>(M-DPWD PAY ITEM)</b>	13	EA	\$	\$
425-1-2-B	SD-3.1 SWALE INLET TYPE D-1 (17"x 27") >10' <b>(M-DPWD PAY ITEM)</b>	3	EA	\$	\$
425-1-2A	SD 2.2 SWALE INLET TYPE D-3 (36" Dia) < 10' <b>(M-DPWD PAY ITEM)</b>	2	EA	\$	\$
425-1-2-A	SD-2.2 SWALE INLET TYPE D-3 (36" Dia.) > 10' <b>(M-DPWD PAY ITEM)</b>	1	EA	\$	\$
425-1-604	SD-2.7 SWALE INLETS (TYPE-P), <10' <b>(M-DPWD PAY ITEM)</b>	1	EA	\$	\$
425-2-41	SD-2.7 MANHOLES, P-7, < 10' <b>(M-DPWD PAY ITEM)</b>	6	EA	\$	\$
425-2-42	SD-2.7 MANHOLES, P-7, > 10' <b>(M-DPWD PAY ITEM)</b>	2	EA	\$	\$
425-2-71	SD-2.6 MANHOLES, J-7, < 10' <b>(M-DPWD PAY ITEM)</b>	1	EA	\$	\$
425-2-72	SD-2.6 MANHOLES, J-7, > 10' <b>(M-DPWD PAY ITEM)</b>	3	EA	\$	\$
425-5	MANHOLE, ADJUST	13	EA	\$	\$
425-6	VALVE BOXES, ADJUST	12	EA	\$	\$
430-174-118	PIPE CULVERT, OPTIONAL MATERIAL, ROUND, 18"SD (HDPE)	635	LF	\$	\$



443-70-3	EXFILTRATION DRAIN (18")	1,290	LF	\$	\$
522-2	CONCRETE SIDEWALK (6" THICK) (SIDEWALK, RAMP, APRON, DRIVEWAY & SALB) + (10% CONTINGENCY)	645	SY	\$	\$
526-1-1	PAVERS, ARCHITECTURAL, ROADWAY (DRIVEWAYS) (CONTINGENCY)	55	SY	\$	\$
570-1-2	PERFORMANCE TURF, SOD	2,500	SY	\$	\$
710-11-101	PAINTED PAVEMENT MARKINGS, STANDARD, WHITE, SOLID, 6"	0.03	GM	\$	\$
710-11-123	PAINTED PAVEMENT MARKINGS, STANDARD, WHITE, SOLID FOR CROSSWALK AND ROUNDABOUT, 12"	50	LF	\$	\$
710-11-125	PAINTED PAVEMENT MARKINGS, STANDARD, WHITE, SOLID FOR STOP LINE OR CROSSWALK, 24"	135	LF	\$	\$
710-11-201	PAINTED PAVEMENT MARKINGS, STANDARD, YELLOW, SOLID, 6"	0.20	GM	\$	\$
706-1-1	RAISED PAVEMENT MARKER, TYPE B WITHOUT FINAL SURFACE MARKINGS (Y/Y, W/R & BLUE)	50	EA	\$	\$
711-11-123	THERMOPLASTIC, STANDARD, WHITE, SOLID, 12" FOR CROSSWALK AND ROUNDABOUT	50	LF	\$	\$
711-11-125	THERMOPLASTIC, STANDARD, WHITE, SOLID, 24" FOR STOP LINE AND CROSSWALK	135	LF	\$	\$
711-16-101	THERMOPLASTIC, STANDARD-OTHER SURFACES, WHITE, SOLID, 6"	0.03	GM	\$	\$
711-16-201	THERMOPLASTIC, STANDARD-OTHER SURFACES, YELLOW, SOLID, 6"	0.20	GM	\$	\$
	CONTINGENCY FUND (15% OF SUBTOTAL GENERAL)	1	LS	\$	
<b>Area #4 Construction Total</b>		<b>\$</b>			

BASE BID AMOUNT TOTAL OF AREAS #1, #2, #3 AND #4: \$ \_\_\_\_\_

BASE BID AMOUNT (IN WORDS): \_\_\_\_\_

## **Bid Item Notes:**

1. Bid Item 101-1 is a lump sum pay item for all mobilization costs. Includes the construction of two (2) project signs that shall be displayed at each approach to the work zone of the project area. The intent is that the signs will be freestanding. The sign shall display on both sides the project name, Town Logo, elected officials, engineer, and contact information. Shop drawings must be submitted for approval prior to ordering the projects signs. Photos of the actual project signs must be submitted for approval prior to installation of the project signs.
2. Bid Item 102-1 is a lump sum pay item for a Maintenance of Traffic and includes all pedestrian access maintenance as well as any required work zone signs and barricades (temp). All crosswalks and sidewalks shall remain open and free of obstructions. All project trenches must be secured from fall prevention by placing steel plates and barricades during off duty hours Temporary painting for roadways and crosswalks shall be maintained throughout the project as required.
3. Bid Item 104-18 is a lump sum pay item to furnish, install and maintain the complete storm water pollution prevention plan (SWPPP). Costs shall include but not be limited to all bales hay, filter fabric, turbidity barriers, Notice of Intent fees, and compliance with any SWPPP reporting.
4. Bid Item 110-1-1 is a lump sum pay item that includes the removal and disposal of all existing asphalt/concrete, pavement, curbing, curb ramps, ADA detectable warning pads and consists of complete removal and disposal of all vegetation, debris, flexible pavement, or any other obstructions in all areas where excavation is to be done. This includes roadway area and areas where pipelines will be constructed. All debris should be disposed of in legal areas provided by the contractor.
5. Bid Item 110-4-10 is a lump sum pay item that includes the cost of removing, disposing and saw cutting the existing sidewalk, ramps, cut & gutter and existing concrete pavement as required for the project.
6. Bid Item 125-1 includes the cost of drainage structure and drainage solid pipe excavation. These are estimated quantities and may be increased or decreased.
7. Bid Items 327-70-16 and 334-1-13 include all costs associated with milling and resurfacing the project area as shown on the plan sheets. These milling and resurfacing bid item includes but is not limited to the cost associated with providing a smooth and continuous grade throughout the entire asphalt resurfacing process to avoid areas of standing water.
8. Bid Item 425-series includes the cost of pollution retardant baffle, frame, grates, covers, materials, metal pipe encasement, labor, and construction.
9. Bid Items 425-5 and 425-6 include the cost adjustment for valves and manholes with pavement areas.
10. Bid Items 430-174-115, 430-174-118 and 443-70-3 includes the cost of excavation to plan elevation, perforated pipe, ballst rock and backfilling with select fill (see detail of exfiltration drain to determine non-perforated pipe quantity) filter fabric and all applicable items required to construct drain. Also, it is included the additional cost of excavating around the laterals servicing said properties.

11. Bid Item 520-1-10 includes the cost of saw cutting the existing Type F curb and gutter.
12. Bid Item 520-1-10 and 527-2 include all costs associated with the installation of Type F Curb and Gutter and ADA Detectable Warning Pads respectively as shown on the plans. The costs include all associated excavation, management of excavated materials, backfill and compaction, testing, and adjacent site restoration.
13. Bid Item 522-2 includes all the cost for the construction of the 6" thick concrete slabs (aprons) and driveways as shown in the plans.
14. Bid Items 570-1-2 includes all the cost of the sod to be used in the restoration of lawns and may be increased or decreased as directed by the engineer. Bahia or to match existing sod.
15. Bid Items 706-series, 710-series, 711-series include all the cost of installation of pavement marking.

**TRENCH SAFETY**

Bidder acknowledges that included in the various items of the Bid and in the Total Bid Price are costs for complying with the Florida Trench Safety Act (90-96, Laws of Fla.) effective October 1, 1990. The Bidder identifies the costs included in the Total Bid Price to be summarized below.

<b>TRENCH SAFETY MEASURE (DESCRIPTION)</b>	<b>UNITS OF MEASURE (LF, SY)</b>	<b>UNIT (QUANTITY)</b>	<b>UNIT COST</b>	<b>EXTENDED COST</b>
A. _____	_____	_____	_____	_____
B. _____	_____	_____	_____	_____
C. _____	_____	_____	_____	_____

Failure to complete the above shall result in the Bid being declared non-responsive.

**[SPACE LEFT INTENTIONALLY BLANK]**

**NON-COLLUSION AFFIDAVIT**

STATE OF FLORIDA  
COUNTY OF MIAMI-DADE

\_\_\_\_\_ (“Affiant”), being first duly sworn, deposes and says that:

1. Affiant is \_\_\_\_\_ of \_\_\_\_\_, (the “Bidder”) and has submitted the attached Bid;
2. Affiant has personal knowledge of the matters set forth herein and is competent to testify;
3. Affiant is fully informed respecting the preparation and contents of the attached Bid and all pertinent circumstances respecting the Bid.
4. The Bid is genuine and is not a collusive or sham Bid.
5. Neither the Bidder nor any of its officers, partners, owners, agents, representatives, employees, or parties in interest, including Affiant, has in any way colluded, conspired, connived, or agreed, directly or indirectly with any other Bidder, firm, or person to submit a collusive or sham Bid, or has in any manner, directly or indirectly, sought by agreement or collusion or communication or conference with any other Bidder, firm, or person to fix the price or prices in the attached Bid or of any other Bidder, or to fix any overhead, profit, or cost element of the Bid price or the Bid price of any other Bidder, or to secure through any collusion, conspiracy, connivance or unlawful agreement any advantage against Town of Cutler Bay or any person interested in the proposed Contract.

By: \_\_\_\_\_

(Corporate Seal)

Title: \_\_\_\_\_

STATE OF FLORIDA  
COUNTY OF MIAMI-DADE

The foregoing instrument was acknowledged by means of physical presence or online notarization.

\_\_\_\_\_  
Notary Public

\_\_\_\_\_  
Print Name

My commission expires:

**CERTIFICATION REGARDING DEBARMENT, SUSPENSION,  
AND OTHER RESPONSIBILITY MATTERS**

**PRIMARY COVERED TRANSACTIONS**

- (1) The prospective primary participant certifies to the best of its knowledge and belief, that it and its principals:
- (a) Are not presently debarred, suspended, proposed for debarment, declared ineligible, or voluntarily excluded from covered transactions by any Federal department or agency;
  - (b) Have not within a three-year period preceding this proposal been convicted of or had a civil judgment rendered against them for commission of fraud or a criminal offense in connection with obtaining, attempting to obtain, or performing a public (Federal, State or local) transaction or contract under a public transaction; violation of Federal or State antitrust statutes or commission of embezzlement, theft, forgery, bribery, falsification or destruction of records, making false statements, or receiving stolen property;
  - (c) Are not presently indicted for or otherwise criminally or civilly charged by a governmental entity (Federal, State, or local) with commission of any of the offenses enumerated in paragraph (1)(b) of this certification; and
  - (d) Have not within a three-year period preceding this application/proposal had one or more public transactions (Federal, State, or local) terminated for cause or default.
- (2) Where the prospective primary participant is unable to certify to any of the statements in this certification, such prospective participant shall attach an explanation to this proposal.

Signature: \_\_\_\_\_

Project Name: \_\_\_\_\_

Name: \_\_\_\_\_

Project Number: \_\_\_\_\_

Firm/Agency: \_\_\_\_\_

Street Address: \_\_\_\_\_

\_\_\_\_\_  
CFR 24.510 & 24 CFR, Part 24, Appendix A

## **INSTRUCTIONS FOR CERTIFICATION**

1. By signing and submitting this proposal, the prospective lower tier participant is providing the certification set out below.
2. The certification in this clause is a material representation of fact upon which reliance was placed when this transaction was entered into. If it is later determined that the prospective lower tier participant knowingly rendered an erroneous certification, in addition to other remedies available to the federal government, the department or agency with which this transaction originated may pursue available remedies, including suspension and/or debarment.
3. The prospective lower tier participant shall provide immediate written notice to the person to which this proposal is submitted if at any time the prospective lower tier participant learns that its certification was erroneous when submitted or has become erroneous by reason of changed circumstances.
4. The terms “covered transaction,” “debarred,” “suspended,” “ineligible,” “lower tier covered transaction,” “participant,” “person,” “primary covered transaction,” “principal,” “proposal,” and “voluntarily excluded,” as used in this clause, have the meanings set out in the Definitions and Coverage sections of rules implementing Executive Order 12549. You may contact the person to which this proposal is submitted for assistance in obtaining a copy of those regulations.
5. The prospective lower tier participant agrees by submitting this proposal that, should the proposed covered transaction be entered into, it shall not knowingly enter into any lower tier covered transaction with a person who is debarred, suspended, declared ineligible, or voluntarily excluded from participation in this covered transaction, unless authorized by the department or agency with which this transaction originated.
6. The prospective lower tier participant further agrees by submitting this proposal that it will include the clause titled “Certification Regarding Debarment, Suspension, Ineligibility, and Voluntary Exclusion-Lower Tier Covered Transactions,” without modification, in all lower tier covered transactions and in all solicitations for lower tier covered transactions.
7. A participant in a covered transaction may rely upon a certification of a prospective participant in a lower tier covered transaction that it is not debarred, suspended, ineligible, or voluntarily excluded from the covered transaction, unless it knows that the certification is erroneous. A participant may decide the method and frequency by which it determines the eligibility of its principals. Each participant may, but is not required to, check the Non-procurement List (Telephone Number).
8. Nothing contained in the foregoing shall be construed to require establishment of a system of records in order to render in good faith the certification required by this clause. The knowledge and information of a participant is not required to exceed that which is normally possessed by a prudent person in the ordinary course of business dealings.

9. Except for transactions authorized under paragraph 5 of these instructions, if a participant in a covered transaction knowingly enters into a lower tier covered transaction with a person who is suspended, debarred, ineligible, or voluntary excluded from participation in this transaction, in addition to other remedies available to the federal government, the department or agency with which this transaction originated may pursue available remedies, including suspension and/or debarment.

**[SPACE LEFT INTENTIONALLY BLANK]**



## **CERTIFICATION REGARDING LOBBYING**

### Certification for Contracts, Grants, Loans, and Cooperative Agreements

#### Appendix A – 49 CFR Part 20

The undersigned (Contractor) certifies, to the best of his or her knowledge and belief, that:

1. No Federal appropriated funds have been paid or will be paid, by or on behalf of the undersigned, to any person for influencing or attempting to influence an officer or employee of an agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with the awarding of any Federal contract, the making of any Federal grant, the making of any Federal loan, the entering into of any cooperative agreement, and the extension, continuation, renewal, amendment, or modification of any Federal contract, grant, loan, or cooperative agreement.
2. If any funds other than Federal appropriated funds have been paid or will be paid to any person for making lobbying contacts to an officer or employee of any agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with this Federal contract, grant, loan or cooperative agreement, the undersigned shall complete and submit Standard Form—LLL, “Disclosure Form to Report Lobbying”, in accordance with the instructions {as amended by “Government Wide Guidance for New Restrictions on Lobbying”, 61 Fed. Reg. 1413 (1/19/96). Note: Language in paragraph (2) herein has been modified in accordance with Section 10 of the Lobbying Disclosure Act of 1995 (P.L. 104-65, to be codified at 2 U.S.C. 1601, *et seq.*)}
3. The undersigned shall require that the language of this certification be included in the award documents for all sub-awards at all tiers (including subcontracts, sub-grants, and contracts under grants, loans, and cooperative agreements) and that all sub-recipients shall certify and disclose accordingly.

This certification is a material representation of fact upon which reliance was placed when this transaction was made or entered into. Submission of this certification is a prerequisite for making or entering into this transaction imposed by 31, U.S.C. § 1352 (as amended by the Lobbying Disclosure Act of 1995). Any person who fails to file the required certification shall be subject to a civil penalty of not less than \$10,000 and not more than \$100,000 for each such failure. {{Note: Pursuant to 31 U.S.C. § 1352©(1)-(2)(A), any person who makes a prohibited expenditure or fails to file or amend a required certification or disclosure form shall be subject to a civil penalty of not less than \$10,000 and not more than \$100,000 for each such expenditure or failure}}.

The Contractor, \_\_\_\_\_, certified or affirms the truthfulness and accuracy of each statement of its certification and disclosure, if any. In addition, the Contractor understands and agrees that the provisions of 31 U.S.C. A 3801, *et seq.*, apply to this certification and disclosure, if any.

Signature of Contractor's Authorized Official

\_\_\_\_\_

Name and Title of Contractor's Authorized Official

\_\_\_\_\_

Date \_\_\_\_\_

**[SPACE LEFT INTENTIONALLY BLANK]**

**ANTI-KICKBACK AFFIDAVIT**

STATE OF FLORIDA  
COUNTY OF MIAMI-DADE

I, the undersigned, hereby duly sworn, depose and say that no portion of the sum herein bid will be paid to any employees of the Town of Cutler Bay, its elected officials, and \_\_\_\_\_ or its design consultants, as a commission, kickback, reward or gift, directly or indirectly by me or any member of my firm or by an officer of the corporation.

By: \_\_\_\_\_

Title: \_\_\_\_\_

The foregoing instrument was acknowledged before me by means of physical presence or online notarization this \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_, by \_\_\_\_\_, on behalf of \_\_\_\_\_.

\_\_\_\_\_ She/He is personally known to me or has produced \_\_\_\_\_ as identification.

\_\_\_\_\_  
Notary Public

**[SPACE LEFT INTENTIONALLY BLANK]**

**SWORN STATEMENT ON PUBLIC ENTITY CRIMES**  
**SECTION 287.133(3)(a), FLORIDA STATUTES**

**THIS FORM MUST BE SIGNED AND SWORN TO IN THE PRESENCE OF A NOTARY PUBLIC OR OTHER OFFICIAL AUTHORIZED TO ADMINISTER OATHS.**

1. This sworn statement is submitted to the Town of Cutler Bay  
by \_\_\_\_\_  
[Print Individual's Name and Title]  
for \_\_\_\_\_  
[Print Name of Entity Submitting Sworn Statement]

whose business address is:

\_\_\_\_\_  
\_\_\_\_\_

and (if applicable) its Federal Employer Identification Number (FEIN) is: \_\_\_\_\_

(If the entity has no FEIN, include the Social Security Number of the individual signing this sworn statement: \_\_\_\_\_)

2. I understand that a "public entity crime" as defined in Paragraph 287.133(1)9g), Florida Statutes, means a violation of any state or federal law by a person with respect to and directly related to the transaction of business with any public entity or with an agency or political subdivision of any other state or the United States, including, but not limited to, any bid or contract for goods and services to be provided to any public entity or an agency or political subdivision of any other state or of the United States involving antitrust, fraud, theft, bribery, collusion, racketeering, conspiracy, or material misrepresentation.
3. I understand that "convicted" or "conviction" as defined in Paragraph 287.133(1)(b), Florida Statutes, means a finding of guilt or a conviction or a public entity crime, with or without an adjudication of guilt, in any federal or state trial court of record relating to charges brought by indictment or information after July 1, 1989, as a result of a jury verdict, nonjury trial, or entry of a plea of guilty or nolo contendere.

4. I understand than an “affiliate” as defined in Paragraph 287.133(1)(a), Florida Statutes, means:
- a. A predecessor or successor of a person convicted of a public entity crime; or
  - b. An entity under the control of any natural person who is active in the management of the entity and who has been convicted of a public entity crime. The term “affiliate” includes those officers, directors, executives, partners, shareholders, employees, members, and agents who are active in the management of an affiliate. The ownership by one person of shares constituting a controlling interest in another person, or a pooling of equipment or income among persons when not for fair market value under an arm’s length agreement, shall be a prima facie case that one person controls another person. A person who knowingly enters into a joint venture with a person who has been convicted of a public entity crime in Florida during the preceding 36 months shall be considered an affiliate.
5. I understand that a “person” as defined in Paragraph 287.133(1)I, Florida Statutes, means any natural person or entity organized under the laws of any state or of the United States with the legal power to enter into a binding contract and which bids or applies to bid on contracts for the provision of goods or services let by a public entity, or which otherwise transacts or applies to transact business with a public entity. The term “person” includes those officers, directors, executives, partners, shareholders, employees, members, and agents who are active in the management of an entity.
6. Based on information and belief, the statement that I have marked below is true in relation to the entity submitting this sworn statement. **[Indicate which statement applies.]**
- \_Neither the entity submitting this sworn statement, nor any officers, directors, executives, partners, shareholders, employees, members, or agents who are active in the management of the entity, not any affiliate of the entity, has been charged with and convicted of a public entity crime subsequent to July 1, 1989.
- \_This entity submitting this sworn statement, or one or more of its officers, directors, executives, partners, shareholders, employees, members, or agents who are active in the management of the entity or an affiliate of the entity has been charged with and convicted of a public entity crime subsequent to July 1, 1989.
- \_The entity submitting this sworn statement, or one or more of its officers, directors, executives, partners, shareholders, employees, members, or agents who are active in the management of the entity or an affiliate of the entity has been charged with and convicted of a public entity crime subsequent to July 1, 1989. However, there has been a subsequent proceeding before a Hearing Officer of the State of Florida, Division of Administrative Hearings and the Final Order entered by the Hearing Officer determined that it was not in the public interest to place the entity submitting this sworn statement on the convicted vendor list. **[Attach a copy of the final order]**

**I UNDERSTAND THAT THE SUBMISSION OF THIS FORM TO THE CONTRACTING OFFICER FOR THE PUBLIC ENTITY IDENTIFIED IN PARAGRAPH 1 ABOVE IS FOR THAT PUBLIC ENTITY ONLY AND, THAT THIS FORM IS VALID THROUGH DECEMBER 31 OF THE CALENDAR YEAR IN WHICH IT IS FILED. I ALSO UNDERSTAND THAT I AM REQUIRED TO INFORM THE PUBLIC ENTITY PRIOR TO ENTERING INTO A CONTRACT IN EXCESS OF THE THRESHOLD AMOUNT PROVIDED IN SECTION 287.017, FLORIDA STATUTES, FOR CATEGORY TWO OF ANY CHANGE IN THE INFORMATION CONTAINED IN THIS FORM.**

\_\_\_\_\_  
Signature of Entity Submitting Sworn Statement

STATE OF FLORIDA

COUNTY OF MIAMI-DADE

The foregoing instrument was acknowledged before me by means of physical presence or online notarization this \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_, by \_\_\_\_\_, on behalf of \_\_\_\_\_.

\_\_\_\_\_. She/He is personally known to me or has produced \_\_\_\_\_ as identification.

\_\_\_\_\_  
Notary Public

\_\_\_\_\_  
Print Name

**[SPACE LEFT INTENTIONALLY BLANK]**

**DRUG-FREE WORKPLACE FORM**

The undersigned vendor in accordance with Section 287.087, Florida Statutes, hereby certifies that \_\_\_\_\_ does:

(Name of Business)

- 1) Publish a statement notifying employees that the unlawful manufacture, distribution, dispensing, possession, or use of a controlled substance is prohibited in the workplace and specifying the actions that will be taken against employees for violations of such prohibition.
- 2) Inform employees about the dangers of drug abuse in the workplace, the business’s policy of maintaining a drug-free workplace, any available drug counseling, rehabilitation, and employee assistance programs, and the penalties that may be imposed upon employees for drug abuse violations.
- 3) Give each employee engaged in providing the commodities or contractual services that are under bid a copy of the statement specified in subsection (1).
- 4) In the statement specified in subsection (1), notify the employees that, as a condition of working on the commodities or contractual services that are under bid, the employee will abide by the terms of the statement and will notify the employer of any conviction of, or plea of guilty or nolo contendere to, any violation of chapter 893 or of any controlled substance law of the United States or any state, for a violation occurring in the workplace no later than five (5) days after such conviction.
- 5) Impose a sanction on or require the satisfactory participation in a drug abuse assistance or rehabilitation program if such is available in the employee’s community, by any employee who is so convicted.
- 6) Make a good faith effort to continue to maintain a drug-free workplace through implementation of this section.

As the person authorized to sign the statement, I certify that this firm complies fully with the above requirements.

\_\_\_\_\_  
Proposers Signature

\_\_\_\_\_  
Date

**[END OF SECTION]**

**SECTION 00350**

**CONTRACTOR'S QUESTIONNAIRE / QUALIFICATION STATEMENT**

Submitted to: The Mayor and Town Council of the Town of Cutler Bay, Florida:

By \_\_\_\_\_

Principal Office \_\_\_\_\_

How many years has your organization been in business as a General Contractor under your present business name? \_\_\_\_\_

Does your organization have current occupational licenses entitling it to do the work contemplated in this Contract? \_\_\_\_\_

State of Florida Occupational License (State type and number):

\_\_\_\_\_

Federal I.D. No: \_\_\_\_\_

Dade County Certificate of Competency (State type and number):

\_\_\_\_\_

Town of Cutler Bay Occupational License (State type and number):

\_\_\_\_\_

**Please include copies of above licenses and certifications with proposal.**

How many years of experience in similar work has your organization had?

- (A) As a General Contractor \_\_\_\_\_
- (B) As a Sub-Contractor \_\_\_\_\_
- (C) What contracts has your organization completed? State below:

<b>Contract Amount</b>	<b>Class of Work</b>	<b>When Completed</b>	<b>Name &amp; Address of Owner</b>
------------------------	----------------------	-----------------------	------------------------------------




How many years has your organization, or your concrete curb and sidewalk sub-contractor had in the actual construction of municipal, urban, decorative sidewalks and streetscapes?

\_\_\_\_\_ Years

List the detailed experience below:

<u>Name &amp; Tel. Number of Owner</u>	<u>Project Name</u>	<u>Date Completed</u>
_____	_____	_____
_____	_____	_____
_____	_____	_____

Are you a Certified Disadvantaged Business Enterprise (DBE) with the State of Florida?

\_\_\_\_\_

Have you ever failed to complete any work awarded to you? \_\_\_\_\_

If so, where and why? \_\_\_\_\_

\_\_\_\_\_

Has any officer or partner of your organization ever failed to complete a contract handled in his own name? \_\_\_\_\_

If so, state name of individual, name of owner, and reason thereof:

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

In what other lines of business are you financially interested or engaged?

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

Give references as to experience, ability, and financial standing.

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What equipment do you own that is available for the proposed work and where is it located?

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Financial Statement: \_\_\_\_\_

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What Bank or Banks have you arranged to do business with during the course of the Contract should it be awarded to you? \_\_\_\_\_

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**I hereby certify that the above answers are true and correct.**

(Affix Seal)

Name of Bidder: \_\_\_\_\_

Signature of Officer: \_\_\_\_\_

Title of Officer: \_\_\_\_\_

**[END OF SECTION]**

**SECTION 00410**

**SECTION V  
TOWN OF CUTLER BAY  
ITB NO. 24-02**

**BEL AIRE, EUREKA DRIVE ESTS, CUTLER COUNTRY GROVES, ALLOM ESTS, AND  
SOUTH GROVE WATER QUALITY IMPROVEMENT PROJECT**

**BID BOND**

KNOW ALL MEN BY THESE PRESENTS, that we \_\_\_\_\_

as Principal and Proposer, and \_\_\_\_\_

Hereinafter called Surety, are held and firmly bound unto Town of Cutler Bay, a political subdivision of the State of Florida, and represented by its Town Manager, in the sum of five (5) percent (%) of the proposed annual base bid amount of:

\_\_\_\_\_

(Written Dollar Amount)

dollars (\$ \_\_\_\_\_) lawful money of the United States of America, for the payment of which well and truly to be made, we bind ourselves, our heirs, executors, administrators, successors, and assigns, jointly and severally by these presents.

WHEREAS, the Principal contemplates submitting or has submitted, a bid to the Town of Cutler Bay for the furnishing of all labor, materials (except those to be specifically furnished by the Town), equipment, machinery, tools, apparatus, means of transportation for, and the performance of the work covered in the bid and the detailed Drawings and Specifications, entitled:

**BEL AIRE, EUREKA DRIVE ESTS, CUTLER COUNTRY GROVES, ALLOM ESTS, AND SOUTH  
GROVE WATER QUALITY IMPROVEMENT PROJECT**

**TOWN OF CUTLER BAY  
ITB No. 24-02  
BEL AIRE, EUREKA DRIVE ESTS, CUTLER COUNTRY GROVES,  
ALLOM ESTS, AND SOUTH GROVE WATER QUALITY  
IMPROVEMENT PROJECT**

WHEREAS, it was a condition precedent to the submission of said bid that a cashier's check, certified check, or bid bond in the amount of 5% of the proposal amount be submitted with said bid as a guarantee that the Proposer would, if awarded the Contract, enter into a written Contract with the Town for the performance of said Contract, within ten (10) consecutive calendar days after written notice having been given of the award of the Contract.

NOW, THEREFORE, the conditions of this obligation are such that if the Principal within ten (10) consecutive calendar days after written notice of such acceptance, enters into a written Contract with the Town of Cutler Bay and furnishes the Performance Bond, in an amount equal to one hundred percent of the **annual** base bid amount, satisfactory to the Town, then this obligation shall be void; otherwise the sum herein stated shall be due and payable to the Town of Cutler Bay and the Surety herein agrees to pay said sum immediately

upon demand of the Town in good and lawful money of the United States of America, as liquidated damages for failure thereof of said Principal.

IN WITNESS WHEREOF, the said \_\_\_\_\_

as Principal herein, has caused these presents to be signed in its name by its \_\_\_\_\_

\_\_\_\_\_ and attested by its \_\_\_\_\_

\_\_\_\_\_ under its corporate seal, and the said \_\_\_\_\_

\_\_\_\_\_ as Surety herein, has caused these

presents to be signed in its name by its \_\_\_\_\_

\_\_\_\_\_ and attested in its name by its \_\_\_\_\_

\_\_\_\_\_ under its corporate seal, this \_\_\_\_\_ day of \_\_\_\_\_ A.D.,

20 \_\_\_\_ .

Signed, sealed, and delivered

PRINCIPAL:

\_\_\_\_\_ in the presence of:

BY:

\_\_\_\_\_

NAME:

\_\_\_\_\_

As to Principal

\_\_\_\_\_  
Surety

BY:

\_\_\_\_\_

\_\_\_\_\_  
Attorney-in-Fact  
(Power-of-Attorney to be attached)

\_\_\_\_\_

BY:

\_\_\_\_\_

Resident Agent

As to Surety

**[END OF SECTION]**



**SECTION 00500**  
**CONTRACT FOR CONSTRUCTION**

**THIS CONTRACT FOR CONSTRUCTION** (this “Contract”) is made this \_\_\_\_\_ day of \_\_\_\_\_, 2024 (the “Effective Date”) by and between the **TOWN OF CUTLER BAY, FLORIDA**, a Florida municipal corporation, (the “Town”), and [ \_\_\_\_\_ ], a [ \_\_\_\_\_ ] (the “Contractor”).

**WHEREAS**, the Town issued Invitation to Bid No. 2024-02 (the “ITB”) for construction of the BEL AIRE, EUREKA DRIVE ESTS, CUTLER COUNTRY GROVES, ALLOM ESTS, AND SOUTH GROVE WATER QUALITY IMPROVEMENT PROJECT in the TOWN OF CUTLER BAY (the “Project”), which ITB is incorporated herein by reference and made a part hereof; and

**WHEREAS**, in response to the Town’s ITB, the Contractor submitted a bid for the Project (“Bid”), which Bid is incorporated herein by reference and made a part hereof, and includes the Price Submittal (“Pricing”) attached hereto as Exhibit “A”; and

**WHEREAS**, Contractor submitted the lowest, responsive and responsible bid in response to the ITB and was selected and awarded this Contract for performance of the Work (as hereinafter defined); and

**WHEREAS**, Contractor has represented to the Town that it possesses the necessary qualifications, experience and abilities to perform the Work or the Project, and has agreed to provide the Work on the terms and conditions set forth in this Contract.

**NOW, THEREFORE**, in consideration of the mutual covenants and conditions contained herein, the Contractor and the Town agree as follows:

**1. SCOPE OF WORK**

**1.1. Scope of Work.** Contractor hereby agrees to furnish all of the labor, materials, equipment, services and incidentals necessary to perform all of the work described in the Contract Documents (the “Work” or the “Project”) including, without limitation as described in the approved plans, drawings and/or specifications prepared by SRS ENGINEERING, INC. dated 10/25/2023 (the “Plans”) and any other documents incorporated herein by reference and made a part of this Contract for the following Project:

**BEL AIRE, EUREKA DRIVE ESTS, CUTLER COUNTRY GROVES, ALLOM ESTS,  
AND SOUTH GROVE WATER QUALITY IMPROVEMENT PROJECT**

**1.2. Pre-Construction Conference.** Within fourteen (14) calendar days after this Contract is executed by both parties, and before any Work has commenced, a pre-construction conference will be held between the Town, the Contractor, and the Project Consultant. The Contractor must submit its project schedule and schedule of values, if applicable, prior to this conference.

**1.3. Project Schedule.** Contractor must submit a proposed Project Schedule as follows:

**1.3.1.** Schedule must identify the schedule for each location comprising the Project. The proposed Project schedule must be submitted within ten (10) calendar days from the date this Contract is executed by both parties for the review and approval of the Project Consultant or Town as applicable. This initial schedule shall establish the baseline schedule for the Project.

**1.3.2.** All updates of schedules must be tracked against the baseline schedule and must be at a minimum submitted with each pay application. An updated schedule tracked against the baseline must also be submitted upon execution of each Change Order that impacts the Contract Time. Failure to submit such schedules will result in the rejection of any submitted payment application.

**1.3.3.** All Project Schedules must be prepared in Microsoft Project or approved equal by the Town. At the time of submission of schedules, Contractor must submit a hard copy as well as an electronic version. Electronic versions must not be submitted in a .pdf format.

**1.4. Records.**

**1.4.1. As-Built Drawings.** During the Work, Contractor must maintain records of all deviations from the Drawings as approved by the Project Consultant and prepare two copies of As-Built Record Drawings showing correctly and accurately all changes and deviations made during construction to reflect the Work as it was actually constructed. It is the responsibility of the Contractor to check the As-Built Drawings for errors and omissions prior to submittal to the Town and to certify in writing that the As-Built Record Drawings are correct and accurate, including the actual location of all infrastructure, internal piping, and electrical/signal conduits in or below the concrete floor (indicating the size, depth, and voltage in each conduit). To record actual construction, Contractor must legibly mark on-site structures and site Work as follows:

**1.4.1.1.** Depths of various elements of foundation in relation to finish first floor datum.

**1.4.1.2.** All underground piping and ductwork with elevations and dimensions and locations of valves, pull boxes, etc. Changes in location. Horizontal and vertical locations of underground utilities and appurtenances referenced to permanent surface improvements. Actual installed pipe material, class, etc.

**1.4.1.3.** Location of internal utilities and appurtenances concealed in the construction, referenced to visible and accessible features of the structure. Air conditioning ducts with locations of dampers, access doors, fans and other items needing periodic maintenance.

**1.4.1.4.** Field changes in dimensions and details.

**1.4.1.5.** Changes made by Project Consultant's written instructions or by Change Order.

**1.4.1.6.** Details not on original Contract Drawings.

**1.4.1.7.** Equipment, conduit, electrical panel locations.

**1.4.1.8.** Project Consultant's schedule changes according to Contractor's records and shop drawings.

**1.4.1.9.** Specifications and Addenda: Legibly mark each section to record:

**1.4.1.9.1.** Manufacturer, trade name, catalog number and Supplier of each product and item of equipment actually installed.

**1.4.1.9.2.** Changes made by Project Consultant's written instructions or by Change Order.

**1.4.1.10.** Approved Shop Drawings: Provide record copies for each process, equipment, piping, electrical system and instrumentation system.

**1.4.1.10.1.** As-built documents must be updated monthly as a condition precedent to payment, unless waived by the Town. A final survey signed and sealed by a surveyor must be provided to the Town at no additional cost, including digital I (CAD and PDF) versions.

**1.4.1.10.2.** For construction of new building, or building additions, field improvements, and or roadway improvements, as-built drawings must be signed and sealed by a Florida Licensed Registered Land Surveyor.

**1.4.2. Record Set.** Contractor must maintain in a safe place one record copy and one permit set of the Contract Documents, including, but not limited to, all Drawings, Specifications, amendments, COs, RFIs, and field directives, as well as all written interpretations and clarifications issued by the Project Consultant, in good order and annotated to show all changes made during construction. The record documents must be continuously updated by Contractor throughout the prosecution of the Work to accurately reflect all field changes that are made to adapt the Work to field conditions, changes resulting from COs and/or field directives as well as all written interpretations and clarifications, and all concealed and buried installations of piping, conduit and utility services. Contractor must certify the accuracy of the updated record documents. The record documents must be clean, and all changes, corrections and dimensions must be given in a neat and legible manner in red. Upon Final Completion and as a condition precedent to Contractor's entitlement to final payment, the Record Set must be delivered to the Project Consultant by the Contractor. The Record Set of Drawing must be submitted in both hard copy and as electronic plot files.

**1.4.3. Construction Photographs.** Prior to commencement of the Work the Contractor must take digital photographs and color audio-video recording to document existing conditions and submit copies in an acceptable format to the Town. Contractor must submit with each application for payment photographs that accurately reflect the progress of all aspects of the Work. The number of photographs to be taken will be based on the magnitude of the Work being performed. Contractor must submit one copy of each photograph in print and digitally. The photographs must be printed on 8" X 10" high resolution glossy commercial grade and weight color photographic print paper or in a format acceptable to the Town. Each photograph must be imprinted on its face with the title of the Project, the date, and time the picture was taken. Digital photographs must be taken using .jpeg format and will be submitted through a file-sharing site (such as Dropbox) or on a CD-ROM or flash drive clearly identifying the name of the Project, the name of the Contractor, and the timeframe in which the pictures were taken. Initial set up prints will be submitted in a three-ring binder with each picture protected by a clear plastic sleeve. Subsequent prints are to be submitted in clear plastic sleeves that can be added to the binder. The three-ring binder must be of such size to be able to hold all print pictures.



## **1.5. Staging Site.**

**1.5.1.** The Contractor is solely responsible for making all arrangements for any staging site(s) that may be necessary for the performance of the Work and the Contractor is responsible for all site security, including any fencing of the site, and any loss, damage or theft to its equipment and materials. Any fencing of the Staging Site is subject to the prior written approval of the Town.

**1.5.2.** The Town at its sole discretion may make a staging site available for use by the Contractor. If such site is made available by the Town, the Town assumes no responsibility or liability for the equipment or materials stored on the site, and the Contractor will be solely responsible for any loss, damage or theft to its equipment and materials. The Contractor must restore the site to its pre-existing condition prior to the Contractor's use of the site.

**1.5.3.** The Contractor may be required to provide or may choose to use an office trailer for the duration of the Project. The Contractor must have the prior written approval of the Town as to the use of any office trailer and the placement location for the office trailer. The Contractor must obtain all required permits from the appropriate regulatory agencies.

**1.5.4.** No parking is permitted at a Town provided staging site without the prior written approval of the Town.

**1.6. Purchase and Delivery, Storage and Installation.** All materials must be F.O.B. delivered and included in the cost of the Work. The Contractor is solely responsible for the purchase, delivery, off-loading and installation of all equipment and material(s). Contractor must make all arrangement for delivery. Contractor is liable for replacing any damaged equipment or material(s) and filing any and all claims with suppliers. All transportation must comply with all federal, state (including FDOT), Miami-Dade County, and local laws, rules and regulations. No materials will be stored on-site without the prior written approval of the Town.

**1.7. Approval of Subcontractors.** For any scope of work that the Contractor will utilize a subcontractor, the Contractor may only retain or utilize the services of the particular subcontractor with the prior written approval of the Town Manager, which approval may be granted or withheld in the Town Manager's sole and absolute discretion. The Contractor shall provide at least fourteen (14) days notice to the Town Manager and the Project Consultant of its intent to retain or utilize a subcontractor.

**1.8. Project Signage.** Contractor must furnish and install two (2) Project signs at the Project Site in accordance with the requirements provided by the Project Consultant or the Town as applicable.

## **2. CONTRACT TIME**

**2.1.** Contractor shall be instructed to commence the Work by written instructions in the form of a Notice to Proceed providing a commencement date and issued by the Town Manager or designee. The Notice to Proceed will not be issued until Contractor's submission to Town of all required documents and after execution of this Contract.

**2.2.** Time is of the essence throughout this Contract. The Contractor shall prosecute the Work with faithfulness and diligence and the **Work shall be substantially completed within 'to be determined' (TBD) calendar days from the date specified in the Notice to Proceed ("Contract Time")**. Substantial Completion shall be defined for this purpose as the date on which Town receives beneficial use of the Project. **The Work shall be fully completed in accordance with the Contract Documents within 'to be determined' (TBD) calendar days from**

**the date specified in the Notice to Proceed (“Final Completion Time”).** The Final Completion date is defined as the date determined by the Town when all Work, including punch list items, has been completed in accordance with the Contract Documents and Contractor has delivered to Town all documentation required herein.

**2.3.** Upon failure of Contractor to substantially complete the Work as defined in this Agreement within the Contract Time, Contractor shall pay to Town the sum of **five hundred (\$500)** for each calendar day after the expiration of the Contract Time that the Contractor fails to achieve Substantial Completion up until the date that the Contractor achieves Substantial Completion. Upon failure of Contractor to fully complete the Work and achieve Final Completion within the Final Completion Time, Contractor shall pay to Town the sum of **one thousand dollars (\$1,000)** for each calendar day after expiration of the Final Completion Time that the Contractor fails to achieve Final Completion up until the date that the Contractor achieves Final Completion. These amounts are not penalties but are liquidated damages payable by Contractor to Town for the failure to provide full beneficial occupancy and use of the Project as required. Liquidated damages are hereby fixed and agreed upon between the parties who hereby acknowledge the difficulty of determining the amount of damages that will be sustained by Town as a consequence of Contractor’s delay and failure of Contractor to complete the Work on time. The above-stated liquidated damages shall apply separately to each phase of the Project for which a time for completion is given.

**2.4.** Town is authorized to deduct the liquidated damages from monies due to Contractor for the Work under this Contract. In case the liquidated damage amount due to Town by Contractor exceeds monies due Contractor from Town, Contractor shall be liable and shall immediately upon demand by Town pay to Town the amount of said excess.

### **3. CONTRACT PRICE AND PAYMENT PROCEDURES**

**3.1. Guaranteed Maximum Price.** The Town shall pay the Contractor an amount not to exceed \$\_\_\_\_\_ for the performance of the Work in accordance with the line items and unit prices included in Exhibit “A” (the “Contract Price”). The Contract Price shall be full compensation for all services, labor, materials, equipment, and costs, including overhead and profit, associated with completion of all the Work in full conformity with the Contract Documents and adjusted only by written change orders signed by both parties and approved as required by local law. The Contract Price shall include all applicable sales taxes as required by law.

**3.2. Schedule of Values.** The Contractor must submit two copies of schedule of values within ten (10) calendar days from the date this Contract is executed by both parties. The schedule of values shall indicate a complete breakdown of labor and material of all categories of Work on the Project. Contractor’s overhead and profit must be listed as separate line items if requested. Each line item must be identified with the number and title of the major specification section or major components of the items. The Project Consultant or Town as applicable may require further breakdown after review of the Contractor’s submittal. The Town reserves the right to require such information from the Contractor as may be necessary to determine the accuracy of the schedule of values. The combined total value for mobilization under the Schedule of Values shall not exceed 5% of the value of the Contract. The accepted Schedule of Values must be incorporated into the Contractor’s payment application form. The Contractor guarantees that each

individual line item contained in the schedule of values submitted as part of a competitive solicitation shall not be increased without written approval by the Town Manager.

**3.3. Payment Application Procedures.** Town shall make progress payments, deducting the amount from the Contract Price above on the basis of Contractor's Applications for Payment on or before thirty (30) days after receipt of the Pay Application. Rejection of a Pay Application by the Town shall be within thirty (30) days after receipt of the Pay Application. Any rejection shall specify the applicable deficiency and necessary corrective action. Any undisputed portion shall be paid as specified above. All such payments will be made in accordance with the Schedule of Values established in the Contract Documents or, in the event there is no Schedule of Values, as otherwise provided in the Contract Documents. In the event the Contract Documents do not provide a Schedule of Values or other payment schedule, Applications for Payment shall be submitted monthly by Contractor on or before the 10<sup>th</sup> of each month for the prior month to the Town's Consultant, SRS ENGINEERING, INC. (the "Town's Project Consultant"). Progress payments shall be made in an amount equal to the percentage of Work completed as determined by the Town or Town's Project Consultant, but, in each case, less the aggregate of payments previously made and less such amounts as Town shall determine or Town may withhold taking into account the aggregate of payments made and the percentage of Project completion in accordance with the Contract Documents and Schedule of Values, if any. The Contractor agrees that five percent (5%) of the amount due for each progress payment or Pay Application (the "Retainage") shall be retained by Town until final completion and acceptance of the Work by Town. In the event there is a dispute between Contractor and Town concerning a Pay Application, dispute resolution procedures shall be conducted by Town commencing within 45 days of receipt of the disputed Payment Application. The Town shall reach a conclusion within 15 days thereafter and promptly notify Contractor of the outcome, including payment, if applicable.

**3.4. Progress Payment Applications.** Each progress payment application submitted to the Town must include:

**3.4.1.** A sworn and certified progress payment affidavit indicating that all laborers, material suppliers, and subcontractors dealing with the Contractor were paid in full as it relates to all Work performed up to the time of the request for payment;

**3.4.2.** Partial conditional releases or waivers of lien by the Contractor, material suppliers, subcontractors, and any lienors serving a Notice to the Town and evidence of proof of payment of any indebtedness incurred with respect to the Work of the Contractor as may be required by the Town;

**3.4.3.** Evidence that all Work was fully performed as required by the Contract Documents up to the time of the request for payment and that the Work was inspected and accepted by the Town and any other governmental authorities required to inspect the Work; and

**3.4.4.** An updated Project schedule, including a two-week look-ahead schedule, as approved in writing by the Town Manager.

**3.4.5.** All Buy-Out Savings, including supporting documentation relating to the calculation of the Buy-Out Savings.

**3.5. Final Payment.** Upon Final Completion of the Work by Contractor in accordance with the Contract Documents and acceptance by the Town, and upon receipt of consent by any surety, Town shall pay the remainder of the Contract Price (including Retainage) as recommended by the Town's Project Consultant and Building Official. Final payment is contingent upon receipt by Town from Contractor of:

**3.5.1.** An affidavit that payrolls, bills for materials, equipment, and other indebtedness were paid in full as it relates to all Work performed under this Contract;

**3.5.2.** A certificate evidencing that insurance required by the Contract Documents shall remain in effect after final payment is made;

**3.5.3.** A written statement that the Contractor knows of no reason that the insurance will not be renewable to cover the period required by the Contract Documents;

**3.5.4.** Documentation of any special warranties, including, but not limited to, any manufactures' warranties or specific subcontractor warranties;

**3.5.5.** Evidence that all Punch List items have been fully completed to the satisfaction of the Town;

**3.5.6.** All previously undelivered manufacturer and subcontractor guarantees, warranties, and manuals and documents required by the Contract Documents;

**3.5.7.** Final releases of lien, waivers of claim, satisfactions of liens or claims, and such other affidavits as may be reasonably required by the Town to assure a lien-free and claim-free completion of the Work;

**3.5.8.** Evidence that the Contractor has fully cleaned and restored the site, including removal of all rubbish and debris;

**3.5.9.** At least one complete set of as-built plans, reflecting an accurate depiction of Contractor's Work;

**3.5.10.** Such other documents necessary to show that the Contractor has complied with all other requirements of the Contract Documents; and

**3.5.11.** Cost Savings, including supporting documentation used to calculate the Cost Savings.

**3.6. Payment Withholding.** The Town may withhold any payment, including a final payment, for application to such extent as may be necessary, as determined by the Town's Project Consultant, to protect the Town from loss for which the Contractor is responsible in the event that:

**3.6.1.** The Contractor performs defective Work and such Work has not been corrected, provided that the amount withheld shall be limited to the amount sufficient to cover such defective Work;

**3.6.2.** A third-party files a claim or lien in connection with the Work or this Contract;

**3.6.3.** The Contractor fails to make payments properly to subcontractors or suppliers for labor, materials, or equipment which has been paid by the Town, provided that the amount withheld shall be limited to the amount sufficient to cover such payments to subcontractors or suppliers for labor, materials, or equipment;

**3.6.4.** The Town has reasonable evidence that the Work cannot be completed for the unpaid balance of the Contract Sum;

**3.6.5.** The Contractor, its employees, subcontractors, or agents have damaged the Town;

**3.6.6.** The Town has reasonable evidence that the Work will not be completed within the Contract Time and that the unpaid balance would not be adequate to cover liquidated damages for the anticipated delay;

**3.6.7.** The Contractor has failed to progress the Work satisfactorily and/or according to the Contract Schedule;

**3.6.8.** The Contractor has failed to carry out the Work in accordance with the Contract Documents;

**3.6.9.** The Contractor has failed to provide requisite releases of lien for each payment application in accordance with the Contract Documents; and/or

**3.6.10.** Any other failure to perform a material obligation contained in the Contract Documents.

**3.7. No Waiver of Town Rights.** The payment of any Application for Payment by the Town, including the final request for payment, does not constitute approval or acceptance by the Town of any item of the Work reflected in such Application for Payment, nor shall it be construed as a waiver of any of the Town 's rights hereunder or at law or in equity.

**3.8. Payment to Sub-Contractors; Certification of Payment to Subcontractors.** The term "subcontractor," as used herein, includes persons or firms furnishing labor, materials or equipment incorporated into or to be incorporated into the Work or Project. The Contractor is required to pay all subcontractors for satisfactory performance of their contracts as a condition precedent to payment to Contractor by the Town. The Contractor shall also return all retainage withheld to the subcontractors within 30 days after the subcontractor's work is satisfactorily complete and accepted by the Town.

**3.9. Cost Savings and Value Engineering.**

**3.9.1. Cost Savings.** In the event the Contractor rebids or renegotiates with any subcontractor to reduce subcontractor costs for the performance of the Work, then the difference between (i) the sum of the subcontractor costs used to establish the Contract Price, as set forth in the Schedule of Values, and (ii) the sum of the revised subcontractor costs, including any early payment or similar discounts (the "Cost Savings"), shall revert to the Town. The Contract

Price shall be adjusted in accordance with any Cost Savings through a Change and the Schedule of Values shall also be revised to reflect the new Contract Price.

**3.9.2. Value Engineering.** Contractor shall participate in Value Engineering the Contract Documents with the Town and the Architect with the goal of finding acceptable means for reducing the cost of the Work. Upon acceptance by the Town of recommendation for Value Engineering, the Contract Documents shall be modified to reflect such changes. All savings in connection with Value Engineering of the Work shall revert to Town.

#### **4. CONTRACT DOCUMENTS**

**4.1.** The Contract Documents, which comprise the entire agreement between the Town and the Contractor concerning the Work, consist of this Contract for Construction (including any change orders and amendments thereto), the Plans and Specifications, the Technical Specifications, any Bidding Documents or procurement documents for the Project, the Contractor's Bid for the Project (including the Schedule of Bid Items-Pricing), the Bonds (defined herein), Insurance Certificates, the Notice of Award, and the Notice to Proceed, all of which are deemed incorporated into and made a part of this Contract by this reference and govern this Project. In the event of any conflict among the foregoing, the documents shall govern in the order listed herein. Contractor is reminded and hereby recognizes that all Work under this Contract must comply with all applicable federal, state, and local law. Any mandatory clauses which are required by applicable law shall be deemed to be incorporated herein.

**4.2.** This Contract incorporates and includes all prior negotiations, correspondence, conversations, agreements, or understandings applicable to the matters contained herein and the parties agree that there are no commitments, agreements, or understandings concerning the subject matter of these Contract Documents that are not contained herein. Accordingly, it is agreed that no deviation from the terms hereof shall be predicated upon any prior representations or agreements, whether oral or written.

**4.3.** The Contract Documents shall remain the property of the Town. The Contractor shall have the right to keep one record set of the Contract Documents upon completion of the Project; however in no circumstances shall the Contractor use, or permit to be used, any or all of such Contract Documents on other projects without the Town's prior written authorization.

**4.4. Conflicts; Order of Priority.** This document without exhibits is referred to as the "Base Agreement." In the event of a conflict between the terms of this Base Agreement and any exhibits or attachments hereto, or any documents incorporated herein by reference, the conflict shall be resolved in the following order of priorities and the more stringent criteria for performance of the Work shall apply:

**4.4.1.** First Priority: Change Orders with later date taking precedence;

**4.4.2.** Second Priority: ARPA Contract Form, if applicable;

**4.4.3.** Third Priority: This Base Agreement;

**4.4.4.** Fourth Priority: Contract Documents, excluding this Base Agreement; and

**4.4.5.** Fifth Priority: Exhibit A, "Price Submittal Form."

## **5. INDEMNIFICATION**

**5.1.** Contractor shall defend, indemnify, and hold harmless the Town, its officers, agents and employees, from and against any and all demands, claims, losses, suits, liabilities, causes of action, judgment or damages, including legal fees and costs and through appeal, arising out of or, related to, or in any way connected with Contractor's negligence, recklessness, or intentional misconduct in the Contractor's performance or non-performance of this Contract, Contractor's obligations, or the Work related to the Contract, including by reason of any damage to property, or bodily injury or death incurred or sustained by any party. Additionally, the Contractor shall defend, indemnify, and hold the Town harmless from all losses, injuries or damages and wages or overtime compensation due its employees in rendering services pursuant to this Contract, including payment of reasonable attorneys' fees and costs in the defense of any claim made under the Fair Labor Standards Act, Title VII of the Civil Rights Act of 1964, the Age Discrimination in Employment Act, the Americans with Disabilities Act or any other employment related litigation or worker's compensation claims under federal, state, or local law. The provisions of this section shall survive termination of this Contract.

## **6. INSURANCE AND BONDS**

### **6.1. Insurance.**

**6.1.1.** Contractor shall secure and maintain throughout the duration of this Contract insurance of such types and in such amounts not less than those specified below as satisfactory to the Town, naming the Town as an Additional Insured, underwritten by a firm rated A-X or better by Bests Rating and qualified to do business in the State of Florida. Certificates of Insurance shall be provided to the Town, reflecting the Town as an Additional Insured, no later than ten (10) days after award of this Contract and prior to the execution of this Contract by Town and prior to commencing any Work. Each certificate shall include no less than (30) thirty-day advance written notice to Town prior to cancellation, termination, or material alteration of said policies or insurance. The insurance coverage shall be primary insurance with respect to the Town, its officials, employees, agents and volunteers naming the Town as additional insured. Any insurance maintained by the Town shall be in excess of the Contractor's insurance and shall not contribute to the Contractor's insurance. The insurance coverages shall include at a minimum the amounts set forth in this Section 6.1.

**6.1.1.1.** Commercial General Liability coverage with limits of liability of not less than a \$2,000,000 per Occurrence combined single limit for Bodily Injury and Property Damage. This Liability Insurance shall also include Completed Operations and Product Liability coverages and eliminate the exclusion with respect to property under the care, custody and control of Contractor. The General Aggregate Liability limit (except for Products/Completed Operations) shall be in the amount of \$2,000,000.

**6.1.1.2.** Workers Compensation and Employer's Liability insurance, to apply for all employees for statutory limits as required by applicable State and Federal laws. The policy(ies) must include Employer's Liability with minimum limits of \$1,000,000.00 each accident. No employee, subcontractor or agent of the Contractor shall be allowed to provide Work pursuant to this Contract who is not covered by Worker's Compensation insurance.

**6.1.1.3. Business Automobile Liability** with minimum limits of \$1,000,000 per Occurrence, combined single limit for Bodily Injury and Property Damage. Coverage must be afforded on a form no more restrictive than the latest edition of the Business Automobile Liability policy, without restrictive endorsements, as filed by the Insurance Services Office, and must include Owned, Hired, and Non-Owned Vehicles.

**6.1.1.4. Builder's Risk** property insurance upon the entire Work to the full replacement cost value thereof. This insurance shall include the interest of Town and Contractor and shall provide All-Risk coverage against loss by physical damage including, but not limited to, Fire, Extended Coverage, Theft, Vandalism and Malicious Mischief.

**6.1.1.5.** Contractor acknowledges that it shall bear the full risk of loss for any portion of the Work damaged, destroyed, lost or stolen until Final Completion has been achieved for the Project, and all such Work shall be fully restored by the Contractor, at its sole cost and expense, in accordance with the Contract Documents.

**6.1.2. Certificate of Insurance.** On or before the Effective Date of this Contract, the Contractor shall provide the Town with Certificates of Insurance for all required policies. The Contractor shall be responsible for assuring that the insurance certificates required by this Section remain in full force and effect for the duration of this Contract, including any extensions or renewals that may be granted by the Town. The Certificates of Insurance shall not only name the types of policy(ies) provided, but also shall refer specifically to this Contract and shall state that such insurance is as required by this Contract. The Town reserves the right to inspect and return a certified copy of such policies, upon written request by the Town. If a policy is due to expire prior to the completion of the Work, renewal Certificates of Insurance shall be furnished thirty (30) calendar days prior to the date of their policy expiration. Each policy certificate shall be endorsed with a provision that not less than thirty (30) calendar days' written notice shall be provided to the Town before any policy or coverage is cancelled or restricted. Acceptance of the Certificate(s) is subject to approval of the Town.

**6.1.2.1. Additional Insured.** The Town is to be specifically included as an Additional Insured for the liability of the Town resulting from Work performed by or on behalf of the Contractor in performance of this Contract. The Contractor's insurance, including that applicable to the Town as an Additional Insured, shall apply on a primary basis and any other insurance maintained by the Town shall be in excess of and shall not contribute to the Contractor's insurance. The Contractor's insurance shall contain a severability of interest provision providing that, except with respect to the total limits of liability, the insurance shall apply to each Insured or Additional Insured (for applicable policies) in the same manner as if separate policies had been issued to each.

**6.1.2.2. Deductibles.** All deductibles or self-insured retentions must be declared to and be reasonably approved by the Town. The Contractor shall be responsible for the payment of any deductible or self-insured retentions in the event of any claim.

**6.1.3.** The provisions of this section shall survive termination of this Contract.



**6.2. Bonds.** If required by the Town, prior to performing any portion of the Work the Contractor shall deliver to Town the Bonds required to be provided by Contractor hereunder (the bonds referenced in this Section are collectively referred to herein as the “Bonds”). Pursuant to and in accordance with Section 255.05, Florida Statutes, the Contractor shall obtain and thereafter at all times during the performance of the Work maintain a separate performance bond and labor and material payment bond for the Work, each in an amount equal to one hundred percent (100%) of the Contract Price and each in the form provided in the Contract Documents or in other form satisfactory to and approved in writing by Town and executed by a surety of recognized standing with a rating of B plus or better for bonds up to Two Million Dollars. The surety providing such Bonds must be licensed, authorized and admitted to do business in the State of Florida and must be listed in the Federal Register (Dept. of Treasury, Circular 570). The cost of the premiums for such Bonds is included in the Contract Price. If notice of any change affecting the Scope of the Work, the Contract Price, Contract Time or any of the provisions of the Contract Documents is required by the provisions of any bond to be given to a surety, the giving of any such notice shall be Contractor’s sole responsibility, and the amount of each applicable bond shall be adjusted accordingly. If the surety is declared bankrupt or becomes insolvent or its right to do business in Florida is terminated or it ceases to meet applicable law or regulations, the Contractor shall, within five (5) days of any such event, substitute another bond (or Bonds as applicable) and surety, all of which must be satisfactory to Town.

## **7. CONTRACTOR’S REPRESENTATIONS AND WARRANTIES**

**7.1.** In order to induce the Town to enter into this Contract, the Contractor makes the following representations and warranties:

**7.1.1.** Contractor represents the following:

**7.1.1.1.** Contractor has examined and carefully studied the Contract Documents and the other data identified in the bidding documents, including, without limitation, the “technical data” and plans and specifications and the Plans.

**7.1.1.2.** Contractor has visited the Project site and become familiar with and is satisfied as to the general and local conditions and site conditions that may affect cost, progress, performance or furnishing of the Work.

**7.1.1.3.** Contractor is familiar with and is satisfied as to all federal, state and local laws, regulations and permits that may affect cost, progress, performance and furnishing of the Work. Contractor agrees that it will at all times comply with all requirements of the foregoing laws, regulations and permits.

**7.1.1.4.** Contractor has made, or caused to be made, examinations, investigations, tests and/or studies as necessary to determine surface and subsurface conditions at or on the site. Contractor acknowledges that the Town does not assume responsibility for the accuracy or completeness of information and data shown or indicated in the Contract Documents with respect to underground or ground facilities at, contiguous or near the site or for existing improvements at or near the site. Contractor has obtained and carefully studied (or assumes responsibility for having done so) all such additional supplementary examinations, investigations, explorations, tests, studies and data concerning conditions (surface, subsurface and underground facilities and improvements) at, contiguous or near to the site or otherwise which may affect cost,

progress, performance or furnishing of the Work or which relate to any aspect of the means, methods, techniques, sequences and procedures of construction to be employed by Contractor and safety precautions and programs incident thereto. Contractor does not consider that any additional examinations, investigations, explorations, tests, studies or data are necessary for the performance and furnishing of the Work at the Contract Price, within the Contract Time and in accordance with the other terms and conditions of the Contract Documents.

**7.1.1.5.** Contractor is aware of the general nature of Work to be performed by the Town and others at the site that relates to the Work as indicated in the Contract Documents.

**7.1.1.6.** Contractor has correlated the information known to Contractor, information and observations obtained from visits to the site, reports and drawings identified in the Contract Documents and all additional examinations, investigations, explorations, tests, studies and data with the Contract Documents.

**7.1.1.7.** Contractor has given Town written notice of all conflicts, errors, ambiguities or discrepancies that Contractor has discovered in the Contract Documents and the written resolution thereof by Town is acceptable to Contractor, and the Contract Documents are generally sufficient to indicate and convey understanding of all terms and conditions for performance and furnishing of the Work.

**7.1.1.8.** The Contractor agrees and represents that it possesses the requisite qualifications and skills to perform the Work and that the Work shall be executed in a good and workmanlike manner, free from defects, and that all materials shall be new and approved by or acceptable to Town, except as otherwise expressly provided for in the Contract Documents. The Contractor shall cause all materials and other parts of the Work to be readily available as and when required or needed for or in connection with the construction, furnishing and equipping of the Project.

## **7.2. No recovery for changed market conditions.**

**7.2.1.** In entering into the Contract, Contractor represents and warrants that it has accounted for any and all inflation-related events, recession, labor or material shortages, supply chain disruptions, delivery lead time, or price increases that may be caused by local and or national conditions, whether known or unknown at the time of entering into the Contract (the "Market Conditions"). Contractor further specifically represents and warrants that it has considered all impacts and potential impacts, including any current and future supply chain disruptions and labor shortages, associated with the following events: (1) worldwide pandemics including, but not limited to, COVID-19 and Monkey Pox (the "Pandemics") and (2) the current military conflict involving Russia and the Ukraine (the "Ukraine Military Conflict"). Contractor also represents and warrants that in determining time requirements for procurement, installation, and construction completion, Contractor has taken into account the impacts of Market Conditions, the Pandemics, and the Ukraine Military Conflict, and has included all of those factors in the Construction Schedule and Contract Sum.

**7.2.2.** Contractor shall not seek any price increases or time extensions relating to or arising from the impacts of any Market Conditions, the Pandemics or Ukraine Military Conflict.

**7.2.3.** The Town shall not make any adjustment in the Contract Sum or grant an extension to the Contract Time in connection with any failure by the Contractor to comply with the requirements of this Paragraph.

**7.3.** Contractor warrants the following:

**7.3.1. Anti-Discrimination.** Contractor agrees that it will not discriminate against any employees or applicants for employment or against persons for any other benefit or service under this Contract because of race, color, religion, sex, national origin, or physical or mental handicap where the handicap does not affect the ability of an individual to perform in a position of employment, and agrees to abide by all federal and state laws regarding non-discrimination.

**7.3.2. Anti-Kickback.** Contractor warrants that no person has been employed or retained to solicit or secure this Contract upon an agreement or understanding for a commission, percentage, brokerage or contingent fee, and that no employee or officer of the Town has any interest, financially or otherwise, in the Project. For breach or violation of this warranty, the Town shall have the right to annul this Contract without liability or, in its discretion, to deduct from the Contract Price or consideration, the full amount of such commission, percentage, brokerage or contingent fee.

**7.3.3. Licensing.** Contractor represents that it is a properly qualified and licensed contractor in good standing within the jurisdiction within which the Project is located. Contractor warrants that it shall have, prior to commencement of Work under this Contract and at all times during said Work, all required licenses from the federal, state, Miami-Dade County, Town, or other governmental or regulatory entity. Contractor acknowledges that it is the obligation of Contractor to obtain all licenses required for this Project, including Town building permits. Prior to commencement of the Work, the Contractor shall provide the Town with copies of all required licenses.

**7.3.4. Permits.** Contractor warrants that it shall have, prior to commencement of Work under this Contract and at all times during said Work, all required permits from the federal, state, Miami-Dade County, Town, or other governmental or regulatory entity with jurisdiction over the site that are necessary to perform the Work. Contractor acknowledges that it is the obligation of Contractor to obtain all permits required for this Project, including Town building permits. Prior to commencement of the Work, the Contractor shall provide the Town with copies of all required permits. Town building permit fees may be waived for this Project. If permits are required by any other governing body or agency, the Contractor shall be obligated to pay the fees.

**7.4. Defective Work; Warranty and Guarantee.**

**7.4.1.** Town shall have the authority to reject or disapprove Work which the Town finds to be defective. If required by the Town, Contractor shall promptly either correct all defective Work or remove such defective Work and replace it with non-defective Work. Contractor shall bear all direct, indirect and consequential costs of such removal or corrections including cost of testing laboratories and personnel.

**7.4.2.** Should Contractor fail or refuse to remove or correct any defective Work or to make any necessary repairs in accordance with the requirements of the Contract Documents within

the time indicated in writing by the Town or its designee, Town shall have the authority to cause the defective Work to be removed or corrected, or make such repairs as may be necessary at Contractor's expense. Any expense incurred by Town in making such removals, corrections or repairs, shall be paid for out of any monies due or which may become due to Contractor. In the event of failure of Contractor to make all necessary repairs promptly and fully, Town may declare Contractor in default.

**7.4.3.** The Contractor shall unconditionally warrant and guarantee all labor, materials and equipment furnished and Work performed for a period of one (1) year from the date of Substantial Completion. If, within one (1) year after the date of substantial completion, any of the Work is found to be defective or not in accordance with the Contract Documents, Contractor, after receipt of written notice from Town, shall promptly correct such defective or nonconforming Work within the time specified by Town without cost to Town. Should the manufacturer of any materials and equipment furnished provide for a longer warranty, then the Contractor shall transfer such warranty to the Town prior to Final Completion. Nothing contained herein shall be construed to establish a period of limitation with respect to any other obligation which Contractor might have under the Contract Documents including but not limited to any claim regarding latent defects. Contractor shall provide and assign to Town all material and equipment warranties upon completion of the Work hereunder.

**7.4.4.** Failure to reject any defective Work or material shall not in any way prevent later rejection when such defect is discovered.

## **8. DEFAULT, TERMINATION, AND SUSPENSION; REMEDIES**

**8.1. Termination for Cause.** If Contractor fails to timely begin the Work, or fails to perform the Work with sufficient workers and equipment or with sufficient materials to ensure the prompt completion of the Work within the Contract Time or Final Completion Time as specified in Section 2, or shall perform the Work unsuitably, or cause it to be rejected as defective and unsuitable, or shall discontinue the prosecution of the Work pursuant to the accepted schedule or if the Contractor shall fail to perform any material term set forth in the Contract Documents or if Contractor shall become insolvent or be declared bankrupt, or commit any act of bankruptcy or insolvency, or shall make an assignment for the benefit of creditors, or from any other cause whatsoever shall not carry on the Work in an acceptable manner, Town may, upon seven (7) days after sending Contractor a written Notice of Termination, terminate the services of Contractor, exclude Contractor from the Project site, provide for alternate prosecution of the Work, appropriate or use any or all materials and equipment on the Project site as may be suitable and acceptable, and may finish the Work by whatever methods it may deem expedient. In such case Contractor shall not be entitled to receive any further payment until the Project is completed. All damages, costs and charges incurred by Town, together with the costs of completing the Project, shall be deducted from any monies due or which may become due to Contractor. In case the damages and expenses so incurred by Town shall exceed monies due Contractor from Town, Contractor shall be liable and shall pay to Town the amount of said excess promptly upon demand therefore by Town. In the event it is adjudicated that Town was not entitled to terminate the Contract as described hereunder for default, the Contract shall automatically be deemed terminated by Town for convenience as described below.

**8.2. Termination for Convenience.** This Contract may be terminated by the Town for convenience upon seven (7) calendar days' written notice to the Contractor. In the event of such a termination, the Contractor shall incur no further obligations in connection with the Project

and shall, to the extent possible, terminate any outstanding subcontractor obligations. The Contractor shall be compensated for all services performed to the satisfaction of the Town. In such event, the Contractor shall promptly submit to the Town its Application for Payment for final payment which shall comply with the provisions of the Contract Documents.

**8.3. Suspension of Contract.** This Contract may be suspended for convenience by the Town upon seven (7) calendar days' written notice to the Contractor or immediately if suspended in connection with a local or state declaration of emergency. Suspension of the Work will entitle the Contractor to additional Contract Time as a non-compensable, excusable delay.

**8.4. Termination Due to Lack of Funding.** This Contract is subject to the conditions precedent that: (i) Town funds are available, appropriated, and budgeted for the Work, the Project, and/or Contract Price; (ii) the Town secures and obtains any necessary proceeds, grants, and/or loans for the accomplishment of the Work and/or the Project pursuant to any borrowing legislation adopted by the Town Council relative to the Project; and (iii) Town Council enacts legislation which awards and authorizes the execution of this Contract if such is required.

**8.5. No Damages for Delay.** No claim for damages or any claim, other than for an extension of time shall be made or asserted against Town by reason of any delays. Contractor shall not be entitled to an increase in the Contract Price or payment or compensation of any kind from Town for direct, indirect, consequential, impact or other costs, expenses or damages, including but not limited to, costs of acceleration or inefficiency, arising because of delay, disruption, interference or hindrance from any cause whatsoever, whether such delay, disruption, interference or hindrance be reasonable or unreasonable, foreseeable or unforeseeable, or avoidable or unavoidable or whether or not caused by Town. Contractor shall be entitled only to extensions of the Contract Time as the sole and exclusive remedy for such resulting delay.

**8.6. Waiver of Consequential Damages.** Contractor assumes all risks for the following items, none of which shall be the subject of any Change Order or Claim and none of which shall be compensated for except as they may have been included in the Contractor's Contract Price as provided in the Contract Documents: Loss of any anticipated profits, loss of bonding capacity or capability losses, loss of business opportunities, loss of productivity on this or any other project, loss of interest income on funds not paid, inefficiencies, costs to prepare a bid, cost to prepare a quote for a change in the Work, costs to prepare, negotiate or prosecute Claims, and loss of projects not bid upon, or any other indirect and consequential costs not listed herein. No compensation shall be made for loss of anticipated profits from any deleted Work.

**8.7. Litigation of Claims.** Mediation shall not be required before either party may proceed to litigation.

**8.8. Rights and Remedies.** The duties and obligations imposed by the Contract Documents and the rights and remedies available thereunder and in accordance with this Contract shall be in addition to and not a limitation of any duties, obligations, rights and remedies otherwise imposed or available by law.

## **9. CHANGES IN THE WORK**

### **9.1. Change Orders.**

**9.1.1.** Without invalidating the Contract Documents, and without notice to any Surety, the Town reserves the right to make increases, decreases or other changes in the character or quantity of the Work under the Contract Documents as may be considered necessary or desirable to complete the Work in a manner satisfactory to the Town. The Town reserves the right to order changes, which may result in additions to or reductions from the amount, type or value of the Work shown in the Contract, and which are within the general scope of the Contract Documents, and all such changes will be authorized only by a change order (“CO”) approved in advance, and issued in accordance with provisions of the Contract Documents.

**9.1.2.** For Contractor initiated change orders, the Contractor is required to provide the Project Consultant with a detailed Request for Change Order (“RCO”) in a form approved by the Town, which must include the requested revisions to the Contract, including, but not limited to, adjustments in the Contract Price and/or Contract Time. The Contractor must provide sufficient supporting documentation to demonstrate the reasonableness of the RCO. The Town may require Contractor to provide additional data including, but not limited to, a cost breakdown of material costs, labor costs, labor rates by trade, work classifications, and overhead rates to support the RCO. If applicable, the RCO must include any schedule revisions accompanied by an explanation of the cost impact of the proposed change. Failure to include schedule revisions in an RCO will be deemed as the Contractor’s acknowledgement that the changes included in an RCO will not affect the project schedule.

**9.1.3.** Any modifications to the Contract Work, Contract Time, or Contract Price, must be effectuated through a written CO executed by both parties and, if required by the Town Code of Ordinances, approved by the Town Council.

**9.1.4.** In the event a satisfactory adjustment cannot be reached, and a CO has not been issued, given that time is of the essence, the Town reserves the right, at its sole option, to direct the Contractor to proceed on a time and materials basis or make such arrangements as may be deemed necessary to complete the proposed additional Work at the unit prices provided in the Contract Documents. Where the Town directs the Contractor to proceed on a time and materials basis, the Town shall impose a maximum not-to-exceed amount and the Contractor must maintain detailed records of all labor and material costs including but not limited to payroll records and material receipts. Contractor must demonstrate its costs with sufficient evidence to be entitled to compensation from the Town.

**9.2. Continuing the Work.** Contractor must continue to perform all Work under the Contract Documents during all disputes or disagreements with Town, including disputes or disagreements concerning an RCO. Contractor shall not delay any Work pending resolution of any disputes or disagreements.

## **10. MISCELLANEOUS**

**10.1. No Assignment.** Neither party shall assign the Contract or any sub-contract in whole or in part without the written consent of the other, nor shall Contractor assign any monies due or to become due to it hereunder, without the previous written consent of the Town Manager.

### **10.2. Contractor’s Responsibility for Damages and Accidents.**

**10.2.1.** Contractor shall accept full responsibility for the Work against all loss or damage of any nature sustained until final acceptance by Town and shall promptly repair any damage done from any cause.

**10.2.2.** Contractor shall be responsible for all materials, equipment and supplies pertaining to the Project. In the event any such materials, equipment and supplies are lost, stolen, damaged or destroyed prior to final acceptance by Town, Contractor shall replace same without cost to Town.

**10.3. Governing Law.** This Contract shall be construed in accordance with and governed by the laws of the State of Florida. Venue for any litigation arising out of this Contract shall be proper exclusively in Miami-Dade County, Florida.

**10.4. Waiver of Jury Trial.** TOWN AND CONTRACTOR KNOWINGLY, IRREVOCABLY, VOLUNTARILY AND INTENTIONALLY WAIVE ANY RIGHT EITHER MAY HAVE TO A TRIAL BY JURY IN STATE AND OR FEDERAL COURT PROCEEDINGS IN RESPECT TO ANY ACTION, PROCEEDING, LAWSUIT OR COUNTERCLAIM BASED UPON THE CONTRACT FOR CONSTRUCTION, ARISING OUT OF, UNDER, OR IN CONNECTION WITH THE CONSTRUCTION OF THE WORK, OR ANY COURSE OF CONDUCT, COURSE OF DEALING, STATEMENTS OR ACTIONS OR INACTIONS OF ANY PARTY.

**10.5. Prevailing Party; Attorneys' Fees.** In the event of any controversy, claim, dispute or litigation between the parties arising from or relating to this Contract (including, but not limited to, the enforcement of any indemnity provisions), the prevailing party shall be entitled to recover from the non-prevailing party all reasonable costs, expenses, paralegals' fees, experts' fees and attorneys' fees including, but not limited to, court costs and other expenses through all trial and appellate levels. In addition, the prevailing party shall be entitled to recover from the non-prevailing party all litigation costs associated with discovery, processing, management, hosting, and production of electronically stored information (ESI).

**10.6. Compliance with Laws.** The Consultant shall comply with all applicable laws, ordinances, rules, regulations, and lawful orders of public authorities in carrying out Services under this Agreement, and in particular shall obtain all required permits from all jurisdictional agencies to perform the Services under this Agreement at its own expense.

**10.7. Examination and Retention of Contractor's Records.**

**10.7.1.** The Town or any of its duly authorized representatives shall, for five (5) years after final payment under this Contract, have access to and the right to examine any of the Contractor's books, ledgers, documents, papers, or other records involving transactions related to this Contract for the purpose of making audit, examination, excerpts, and transcriptions. In addition, the Contractor agrees to comply specifically with the provisions of Section 119.0701, Florida Statutes.

**10.7.2.** The Contractor agrees to include in any subcontractor contracts for this Project corresponding provisions for the benefit of Town providing for retention and audit of records.

**10.7.3.** The right to access and examination of records stated herein and in any subcontracts shall survive termination or expiration of this Contract and continue until disposition of any mediation, claims, litigation or appeals related to this Project.

**10.7.4.** The Town may cancel and terminate this Contract immediately for refusal by the Contractor to allow access by the Town Manager or designees to any Records pertaining to work performed under this Contract that are subject to the provisions of Chapter 119, Florida Statutes.

## **10.8. Authorized Representative.**

**10.8.1.** Before commencing the Work, Contractor shall designate a skilled and competent authorized supervisor and representative (“Authorized Representative”) acceptable to Town to represent and act for Contractor and shall inform Town, in writing, of the name and address of such representative together with a clear definition of the scope of his authority to represent and act for Contractor. Contractor shall keep Town informed of any subsequent changes in the foregoing. Such representative shall be present or duly represented at the Project site at all times when Work is actually in progress. All notices, determinations, instructions and other communications given to the authorized representatives of Contractor shall be binding upon the Contractor.

**10.8.2.** The Authorized Representative, project managers, superintendents and supervisors for the Project are all subject to prior and continuous approval of the Town. If, at any time during the term of this Contract, any of the personnel either functionally or nominally performing any of the positions named above, are, for any reasonable cause whatsoever, unacceptable to the Town, Contractor shall replace the unacceptable personnel with personnel acceptable to the Town.

**10.9. Taxes.** Contractor shall pay all taxes, levies, duties and assessments of every nature which may be applicable to any Work under this Contract. The Contract Price and any agreed variations thereof shall include all taxes imposed by law at the time of this Contract. Contractor shall make any and all payroll deductions required by law. Contractor herein indemnifies and holds the Town harmless from any liability on account of any and all such taxes, levies, duties and assessments.

**10.10. Utilities.** Contractor shall, at its expense, arrange for, develop and maintain all utilities at the Project to perform the Work and meet the requirements of this Contract. Such utilities shall be furnished by Contractor at no additional cost to Town. Prior to final acceptance of the Work, Contractor shall, at its expense, satisfactorily remove and dispose of all temporary utilities developed to meet the requirements of this Contract.

**10.11. Safety.** Contractor shall be fully and solely responsible for safety and conducting all operations under this Contract at all times in such a manner as to avoid the risk of bodily harm to persons and damage to property and in full compliance with Occupational Safety and Health Act requirements and all other similar applicable safety laws or codes. Contractor shall continually and diligently inspect all Work, materials and equipment to discover any conditions which might involve such risks and shall be solely responsible for discovery and correction of any such conditions. Contractor shall have sole responsibility for implementing its safety program. Town shall not be responsible for supervising the implementation of Contractor's safety program, and shall not have responsibility for the safety of Contractor's or its subcontractor's employees. Contractor shall maintain all portions of the Project site and Work in a neat, clean and sanitary condition at all times. Contractor shall assure that subcontractors performing Work comply with the foregoing safety requirements.

**10.12. Cleaning Up.** Contractor shall, at all times, at its expense, keep its Work areas in a neat, clean and safe condition. Upon completion of any portion of the Work, Contractor shall promptly remove all of its equipment, construction materials, temporary structures and surplus materials not to be used at or near the same location during later stages of Work. Upon completion of the Work and before final payment is made, Contractor shall, at its expense, satisfactorily dispose



of all rubbish, unused materials and other equipment and materials belonging to it or used in the performance of the Work and Contractor shall leave the Project in a neat, clean and safe condition. In the event of Contractor's failure to comply with the foregoing, the same may be accomplished by Town at Contractor's expense.

**10.13. Liens.** Contractor shall not permit any mechanic's, laborer's or materialmen's lien to be filed against the Project site or any part thereof by reason of any Work, labor, services or materials supplied or claimed to have been supplied to the Project. In the event such a lien is found or claimed against the Project, Contractor shall within ten (10) days after notice of the lien discharge the lien or liens and cause a satisfaction of such lien to be recorded in the public records of Miami-Dade County, Florida, or cause such lien to be transferred to a bond, or post a bond sufficient to cause the Clerk of the Circuit Court of Miami-Dade County, Florida, to discharge such lien pursuant to Chapter 713.24, F.S. In the event Contractor fails to so discharge or bond the lien or liens within such period as required above, Town shall thereafter have the right, but not the obligation, to discharge or bond the lien or liens. Additionally, Town shall thereafter have the right, but not the obligation, to retain out of any payment then due or to become due Contractor, one hundred fifty percent (150%) of the amount of the lien and to pay Town's reasonable attorneys' fees and costs incurred in connection therewith.

**10.14. Public Entity Crimes Affidavit.** Contractor shall comply with Section 287.133, Florida Statutes, and (Public Entity Crimes Statute) notification of which is hereby incorporated herein by reference, including execution of any required affidavit.

**10.15. Independent Contractor.** The Contractor is an independent contractor under the Contract. This Contract does not create any partnership nor joint venture. Services provided by the Contractor shall be by employees of the Contractor and subject to supervision by the Contractor, and not as officers, employees, or agents of the Town. Personnel policies, tax responsibilities, social security and health insurance, employee benefits, purchasing policies and other similar administrative procedures, applicable to services rendered under the Contract shall be those of the Contractor.

**10.16. Notices/Authorized Representatives.** Any notices required by this Contract shall be in writing and shall be deemed to have been properly given if transmitted by hand-delivery, by registered or certified mail with postage prepaid return receipt requested, or by a private postal service, addressed to the parties (or their successors) at the addresses listed on the signature page of this Contract or such other address as the party may have designated by proper notice.

**10.17. Ownership and Access to Records and Audits.**

**10.17.1.** Contractor acknowledges that all inventions, innovations, improvements, developments, methods, designs, analyses, drawings, reports, compiled information, and all similar or related information (whether patentable or not) which relate to Services to the Town which are conceived, developed or made by Contractor during the term of this Contract ("Work Product") belong to the Town. Contractor shall promptly disclose such Work Product to the Town and perform all actions reasonably requested by the Town (whether during or after the term of this Contract) to establish and confirm such ownership (including, without limitation, assignments, powers of attorney and other instruments).

**10.17.2.** Contractor agrees to keep and maintain public records in Contractor's possession or control in connection with Contractor's performance under this Contract. The Town Manager or her designee shall, during the term of this Contract and for a period of five (5)

years from the date of termination of this Contract, have access to and the right to examine and audit any records of the Contractor involving transactions related to this Contract. Contractor additionally agrees to comply specifically with the provisions of Section 119.0701, Florida Statutes. Contractor shall ensure that public records that are exempt or confidential and exempt from public records disclosure requirements are not disclosed, except as authorized by law, for the duration of the Contract, and following completion of the Contract until the records are transferred to the Town.

**10.17.3.** Upon request from the Town's custodian of public records, Contractor shall provide the Town with a copy of the requested records or allow the records to be inspected or copied within a reasonable time at a cost that does not exceed the cost provided by Chapter 119, Florida Statutes, or as otherwise provided by law.

**10.17.4.** Unless otherwise provided by law, any and all records, including but not limited to reports, surveys, and other data and documents provided or created in connection with this Contract are and shall remain the property of the Town.

**10.17.5.** Upon completion of this Contract or in the event of termination by either party, any and all public records relating to the Contract in the possession of the Contractor shall be delivered by the Contractor to the Town Manager, at no cost to the Town, within seven (7) days. All such records stored electronically by Contractor shall be delivered to the Town in a format that is compatible with the Town's information technology systems. Once the public records have been delivered upon completion or termination of this Contract, the Contractor shall destroy any and all duplicate public records that are exempt or confidential and exempt from public records disclosure requirements.

**10.17.6.** Any compensation due to Contractor shall be withheld until all records are received as provided herein.

**10.17.7.** Contractor's failure or refusal to comply with the provisions of this section shall result in the immediate termination of this Contract by the Town.

**10.17.8. Notice Pursuant to Section 119.0701(2)(a), Florida Statutes. IF THE CONTRACTOR HAS QUESTIONS REGARDING THE APPLICATION OF CHAPTER 119, FLORIDA STATUTES, TO THE CONTRACTOR'S DUTY TO PROVIDE PUBLIC RECORDS RELATING TO THIS AGREEMENT, CONTACT THE CUSTODIAN OF PUBLIC RECORDS: MAURICIO MELINU, TOWN CLERK, 10720 CARIBBEAN BLVD SUITE 110, CUTLER BAY, FL 33189, [MMELINU@CUTLERBAY-FL.GOV](mailto:MMELINU@CUTLERBAY-FL.GOV).**

**10.18. E-Verify Affidavit.** In accordance with Section 448.095, Florida Statutes, the Town requires all contractors doing business with the Town to register with and use the E-Verify system to verify the work authorization status of all newly hired employees. The Town will not enter into a contract unless each party to the contract registers with and uses the E-Verify system. The contracting entity must provide of its proof of enrollment in E-Verify. For instructions on how to provide proof of the contracting entity's participation/enrollment in E-Verify, please visit: <https://www.e-verify.gov/faq/how-do-i-provide-proof-of-my-participationenrollment-in-e-verify>. By entering into this Agreement, the Contractor

acknowledges that it has read Section 448.095, Florida Statutes; will comply with the E-Verify requirements imposed by Section 448.095, Florida Statutes, including but not limited to obtaining E-Verify affidavits from subcontractors; and has executed the required affidavit attached hereto and incorporated herein.

## **11. SPECIAL CONDITIONS**

The following provisions in this Section 10 supersede any other provisions contained in this Contract only to the extent of any conflict with same. These provisions are particular to a given transaction and are transaction specific:

### **11.1. Unsatisfactory Personnel.**

**11.1.1.** Contractor must at all times enforce strict discipline and good order among its employees and subcontractors at the Project(s) site(s) and must not employ on any Work any unfit person or anyone not skilled in the Work to which they are assigned.

**11.1.2.** The Town may make written request to the Contractor for the prompt removal and replacement of any personnel employed or retained by the Contractor, or any or Subcontractor engaged by the Contractor to provide and perform services or Work pursuant to the requirements of the Contract Documents. The Contractor must respond to the Town within five (5) calendar days of receipt of such request with either the removal and replacement of such personnel or written justification as to why that may not occur. The Town will make the final determination as to the removal of unsatisfactory personnel from the Work. The Contractor agrees that the removal of any of such individual(s) does not require the termination or demotion of said individual(s).

**11.2. Hours of Work.** Contractor shall conform to and obey all applicable laws, regulations, or ordinances with regard to labor employed, hours of Work and Contractor's general operations. Contractor shall conduct its operations so as not to interfere with or close any thoroughfare, without the written consent of the Town or governing jurisdiction. Work is anticipated to be performed Monday through Friday in accordance with the requirements and limitations of applicable law including, without limitation, the Town Code of Ordinances. The Contractor shall not perform Work beyond the time and days provided above without the prior written approval of the Town.

**11.3. Maintenance of Traffic.** Whenever required by the scope of Work, by federal, state, or local law, or requested by the Town to protect the public health, safety, and welfare, a Maintenance of Traffic (“MOT”) must be performed in accordance with the applicable FDOT Index Numbers (600 Series) and as further stated herein. The manual on Uniform Traffic Control Devices for Streets and Highways (U.S. Department of Transportation, FHWA), must be followed in the design, application, installation, maintenance and removal of all traffic control devices, warning devices and barriers necessary to protect the public and workmen from hazards with the Project limits. Pedestrian and vehicular traffic must be maintained and protected at all times. Prior to commencement of the Work, Contractor must provide the Town with a proposed MOT plan for review. The Town may require revisions to the proposed MOT plan. The MOT plan must be updated by the Contractor every two weeks. Failure to provide an MOT plan may result in the issuance of a stop work order. The Contractor will not be entitled to additional Contract Time for delays resulting from its failure to provide the required MOT plan.

**11.4. Royalties and Patents.** All fees, royalties, and claims for any invention, or pretended inventions, or patent of any article, material, arrangement, appliance, or method that may be used

upon or in any manner be connected with the Work or appurtenances, are hereby included in the prices stipulated in the Contract for said Work.

**11.5. Substitutions.** Substitution of any specified material or equipment requires the prior written acceptance of the Project Consultant. It is the sole responsibility of the Contractor to provide sufficient information and documentation to the Project Consultant to allow for a thorough review and determination on the acceptability of the substitution. Approval of a substitution does not waive or mitigate the Contractor’s responsibility to meet the requirements of the Contract Documents. The Town may require an adjustment in price based on any proposed substitution.

**11.6. Severe Weather Preparedness.** During such periods of time as are designated by the United States Weather Bureau or Miami-Dade County as being a severe weather event, including a hurricane watch or warning, the Contractor, at no cost to the Town, must take all precautions necessary to secure any Work in response to all threatened storm events, regardless of whether the Contractor has been given notice of same, in accordance with the Miami-Dade County Code. Compliance with any specific severe weather event or alert precautions will not constitute additional work. Suspension of the Work caused by a threatened or actual storm event, regardless of whether the Town has directed such suspension, will entitle the Contractor to additional Contract Time as non-compensable, excusable delay.

**11.7. American Rescue Plan Act Contract Conditions.** The Contractor acknowledges that the Work may be fully or partially funded utilizing Coronavirus State and Local Fiscal Recovery Funds allocated to the Town pursuant to the American Rescue Plan Act (“ARPA”). Towards that end, the Contractor shall be required to comply with all laws, rules, regulations, policies, and guidelines (including any subsequent amendments to such laws, regulations, policies, and guidelines) required by ARPA, as further detailed in the ARPA Contract Conditions.

If compliance with the ARPA Contract Conditions is required, the Town shall select this box:

**11.8. Grant Funding.** The Contractor acknowledges that the Work may be fully or partially funded utilizing funds from the grants listed below (the “Grant”). Accordingly, the Contractor warrants and represents that it has reviewed the terms and conditions for each Grant and will perform the Work in accordance with the terms and conditions of the Grant.

Grant Title	Grant Agreement Exhibit
_____	_____
_____	_____
_____	_____
_____	_____

If the Work will be funded utilizing Grant funds, the Town shall select this box:

**[Remainder of page intentionally left blank.  
Signature pages follow.]**



**SECTION 550**  
**AMERICAN RESCUE PLAN ACT ADDENDUM TO**  
**BEL AIRE, EUREKA DRIVE ESTS, CUTLER COUNTRY GROVES, ALLOM ESTS,**  
**AND SOUTH GROVE WATER QUALITY IMPROVEMENT PROJECT**  
**BETWEEN THE TOWN OF CUTLER BAY**  
**AND**  
**[NAME OF ENTITY]**

**THIS ADDENDUM** to the **BEL AIRE, EUREKA DRIVE ESTS, CUTLER COUNTRY GROVES, ALLOM ESTS, AND SOUTH GROVE WATER QUALITY IMPROVEMENT PROJECT** (“Addendum”) is entered into as of the \_\_\_ day of \_\_\_\_\_, 2024 (“Effective Date of this Addendum”), by and between **TOWN OF CUTLER BAY, FLORIDA**, a Florida municipal corporation, (“Town”) and [ \_\_\_\_\_ ], a [ \_\_\_\_\_ ] (“Contractor”). The Contractor are referred to as “Parties.”

**WHEREAS**, on [INSERT DATE], the Town and Contractor entered into an Agreement between the Town and the Contractor for **BEL AIRE, EUREKA DRIVE ESTS, CUTLER COUNTRY GROVES, ALLOM ESTS, AND SOUTH GROVE WATER QUALITY IMPROVEMENT PROJECT** (the “Agreement”); and

**WHEREAS**, the Town wishes to incorporate the terms and conditions required under the American Rescue Plan Act (“ARPA”); and

**NOW, THEREFORE**, for and in consideration of the mutual promises set forth herein, the Town and Contractor agree as follows: <sup>1</sup>

1. **Recitals Incorporated.** The above recitals are true and correct and incorporated herein.

2. **American Rescue Plan Act Provisions.** The Agreement is hereby amended by adding the following provisions to the Agreement:

**2.1. Mandated Federal Agreement Conditions.**

**2.1.1.** In connection with the performance of this Agreement, Contractor acknowledges that compensation for the Project services under this Agreement shall be fully or partially funded using the Coronavirus State and Local Fiscal Recovery Funds allocated to the Town pursuant to the American Rescue Plan Act. As such, Contractor shall comply with all laws, rules, regulations, policies, and guidelines (including any subsequent amendments to such laws, regulations, policies, and guidelines) required by the American Rescue Plan Act, including, but not limited to the following documents and guidelines, which are incorporated herein and made a part of this Agreement:

**ARPA Exhibit 1.** Uniform Administrative Requirements, Cost Principles, and Audit Requirements for Federal Awards (2 CFR Part 200), as applicable and as may be amended from time to time;

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<sup>1</sup> Coding: ~~Strikethrough words~~ are deletions to the existing words. Underlined words are additions to the existing words.

**ARPA Exhibit 2.**The U.S. Department of the Treasury’s Final Rule governing ARPA, dated January 27, 2022;

**ARPA Exhibit 3.**U.S. Department of the Treasury Coronavirus State and Local Fiscal Recovery Funds Award Terms and Conditions (Assistance Listing Number 21.019);

**ARPA Exhibit 4.**The U.S. Department of the Treasury’s Coronavirus State and Local Fiscal Recovery Funds Frequently Asked Questions, dated April 27, 2022;

**ARPA Exhibit 5.**American Rescue Plan Act Coronavirus Local Fiscal Recovery Fund Agreement between the Town and the State of Florida, Division of Emergency Management dated September 28, 2021;

**ARPA Exhibit 6.**The U.S. Department of the Treasury’s ARPA Compliance and Reporting Guidance, dated June 17, 2022; and

**ARPA Exhibit 7.**Assurances of Compliance with Civil Rights Requirements.

A copy of the above-referenced documents are available for inspection by the Contractor at the Office of the Town Clerk and at the following Town link: <https://www.cutlerbay-fl.gov/government/page/arpa-documents>.

**2.1.2. Title VI Requirements.** Contractor acknowledges that the Town has certified compliance with Title VI of the Civil Rights Act of 1964 to the U.S. Department of the Treasury on the form incorporated herein as ARPA Exhibit 7. Towards that end, Contractor shall ensure that performance of work in connection with this Agreement complies with the certifications and requirements contained in ARPA Exhibit 7 and shall also adhere to the following provisions:

(1) The Contractor and its subcontractors, successors, transferees, and assignees shall comply with Title VI of the Civil Rights Act of 1964, which prohibits recipients of federal financial assistance from excluding from a program or activity, denying benefits of, or otherwise discriminating against a person on the basis of race, color, or national origin (42 U.S.C. § 2000d et seq.), as implemented by the Department of the Treasury’s Title VI regulations, 31 CFR Part 22, which are herein incorporated by reference and made a part of this Agreement. Title VI also includes protection to persons with “Limited English Proficiency” in any program or activity receiving federal financial assistance, 42 U.S.C. § 2000d et seq., as implemented by the Department of the Treasury’s Title VI regulations, 31 CFR Part 22, and herein incorporated by reference and made a part of this Agreement.

(2) Pursuant to 44 C.F.R. §§ 7 and 16, and 44 C.F.R. § 206.11, and that the Contractor shall undertake an active program of nondiscrimination in its administration of the Work under this Agreement.

**2.1.3. Americans with Disabilities Act Requirements.** The Contractor agrees to comply with the Americans with Disabilities Act (Public Law 101-336, 42 U.S.C. §§ 12101 et seq.), which prohibits discrimination by public and private entities on the basis of disability in employment, public accommodations, transportation, State and Local government services, and telecommunications. Additionally, Contractor agrees to comply with Section 504 of the

Rehabilitation Act of 1973 (29 U.S.C. §§ 3601), which prohibits discrimination against individuals on the basis of discrimination under any program or activity under this Agreement.

**2.1.4. Age Discrimination Act of 1975.** Contractor shall comply with the requirements of 42 U.S.C. §§ 6101 et seq., as amended, and the Treasury’s implementing regulations (31 CFR Part 23), which prohibits the discrimination on the basis of age in programs or activities under this Agreement.

**2.1.5. Protections for Whistleblowers.**

(1) In accordance with 41 U.S.C. § 4712, Contractor may not discharge, demote, or otherwise discriminate against an employee in reprisal for disclosing to any of the list of persons or entities provided below, information that the employee reasonably believes is evidence of gross mismanagement of a federal contract or grant, a gross waste of federal funds, an abuse of authority relating to a federal contract or grant, a substantial and specific danger to public health or safety, or a violation of law, rule, or regulation related to a federal contract (including the competition for or negotiation of a contract) or grant.

(2) The list of persons and entities referenced in the paragraph above includes the following:

- i. A Member of Congress or a representative of a committee of Congress.
- ii. An Inspector General
- iii. The Government Accountability Office.
- iv. A Federal employee responsible for contract or grant oversight or management at the relevant agency.
- v. An authorized official of the Department of Justice or other law enforcement agency.
- vi. A court or grand jury.
- vii. A management official or other employee of the Contractor, subcontractor, the State of Florida, or the Town who has the responsibility to investigate, discover, or address misconduct.

(3) The Contractor shall inform its employees in writing of the rights and remedies provided under this section, in the predominant native language of the workforce.

**2.1.6. Compliance with Immigration and Nationality Act (INA).** Contractor hereby certifies that it does not knowingly employ unauthorized alien workers in violation of the employment provisions contained in 8 USC Section 1324a(e) [Section 274A(e) of the Immigration and Nationality Act (“INA”)].

**2.1.7. Seat Belts Required.** Pursuant to Executive Order 13043, 62 FR 19217, Contractor shall adopt and enforce policies or programs that require employees to use seat belts while operating or traveling on vehicles owned, rented, or personally owned by the Contractor and its employees while performing the Work.



**2.1.8. Texting While Driving Ban.** Pursuant to Executive Order 13513, 74 FR 51225, Contractor shall adopt and enforce policies that ban text messaging while driving and workplace safety policies designed to decrease accidents caused by distracted drivers.

**2.1.9. Publication.** Contractor shall obtain approval from the Town in writing prior to issuing any publications in connection with this Agreement. If approved by the Town, the Contractor shall include the following language in any and all publications issued:

“This Project is [being funded/was supported] in part by federal award number (FAIN) [Insert Project FAIN] awarded to the Town of Cutler Bay by the U.S. Department of the Treasury.”

**2.1.10. Reporting Conflict of Interests.** Contractor agrees to disclose in writing to the Town, U.S. Department of the Treasury, and the State of Florida, as appropriate, any potential conflicts of interest affecting the use of funds awarded under the American Rescue Plan Act in accordance with 2 CFR 200.112.

**2.2. Compliance with Uniform Administrative Requirements, Cost Principles, and Audit Requirements for Federal Awards (2 CFR Part 200).** In accordance with the Final Rule and other guidelines provided in connection with the American Rescue Plan Act, Contractor shall be subject to the federal Uniform Administrative Requirements, Cost Principles, and Audit Requirements for Federal Awards under 2 CFR Part 200, including, but not limited to:

**2.2.1. Equal Employment Opportunity Compliance.** During the performance of this Agreement, the Contractor agrees as follows:

- (1) The Contractor will not discriminate against any employee or applicant for employment because of race, color, religion, sex, sexual orientation, gender identity, or national origin. The Contractor will take affirmative action to ensure that applicants are employed, and that employees are treated during employment without regard to their race, color, religion, sex, sexual orientation, gender identity, or national origin. Such action shall include, but not be limited to the following:
  - a. Employment, upgrading, demotion, or transfer; recruitment or recruitment advertising;
  - b. layoff or termination;
  - c. rates of pay or other forms of compensation; and
  - d. selection for training, including apprenticeship

The Contractor agrees to post in conspicuous places, available to employees and applicants for employment, notices to be provided setting forth the provisions of this nondiscrimination clause.

- (2) The Contractor will, in all solicitations or advertisements for employees placed by or on behalf of the Contractor, state that all qualified applicants will receive consideration for employment without regard to race, color, religion, sex, sexual orientation, gender identity, or national origin.

- (3) The Contractor will not discharge or in any other manner discriminate against any employee or applicant for employment because such employee or applicant has inquired about, discussed, or disclosed the compensation of the employee or applicant or another employee or applicant. This provision shall not apply to instances in which an employee who has access to the compensation information of other employees or applicants as a part of such employee's essential job functions discloses the compensation of such other employees or applicants to individuals who do not otherwise have access to such information, unless such disclosure is in response to a formal complaint or charge, in furtherance of an investigation, proceeding, hearing, or action, including an investigation conducted by the employer, or is consistent with the Contractor's legal duty to furnish information.
- (4) The Contractor will send to each labor union or representative of workers with which he has a collective bargaining agreement or other contract or understanding, a notice to be provided advising the said labor union or workers' representatives of the Contractor's commitments under this section, and shall post copies of the notice in conspicuous places available to employees and applicants for employment.
- (5) The Contractor will comply with all provisions of Executive Order 11246 of September 24, 1965, and of the rules, regulations, and relevant orders of the U.S. Secretary of Labor.
- (6) The Contractor will furnish all information and reports required by Executive Order 11246 of September 24, 1965, and by rules, regulations, and orders of the Secretary of Labor, or pursuant thereto, and will permit access to his books, records, and accounts by the administering agency and the U.S. Secretary of Labor for purposes of investigation to ascertain compliance with such rules, regulations, and orders.
- (7) In the event of the Contractor's noncompliance with the nondiscrimination clauses of this contract or with any of the said rules, regulations, or orders, this contract may be canceled, terminated, or suspended in whole or in part and the Contractor may be declared ineligible for further Government contracts or federally assisted construction contracts in accordance with procedures authorized in Executive Order 11246 of September 24, 1965, and such other sanctions may be imposed and remedies invoked as provided in Executive Order 11246 of September 24, 1965, or by rule, regulation, or order of the U.S. Secretary of Labor, or as otherwise provided by law.
- (8) The Contractor will include the portion of the sentence immediately preceding paragraph (1) and the provisions of paragraphs (1) through (8) in every subcontract or purchase order unless exempted by rules, regulations, or orders of the U.S. Secretary of Labor issued pursuant to section 204 of Executive Order 11246 of September 24, 1965, so that such provisions will be binding upon each subcontractor or vendor. The Contractor will take such action with respect to any subcontract or purchase order as the administering agency may direct as a means of enforcing such provisions, including sanctions for noncompliance: Provided, however, that in the event a Contractor becomes involved in, or is threatened with, litigation with a subcontractor or vendor as a result of such direction by the administering agency, the Contractor may request the United States to enter into such litigation to protect the interests of the United States.

**2.2.2. Contract Work Hours and Safety Standards Act Compliance.** During the performance of this Agreement, the Contractor shall comply with the provisions of the Contract Work Hours and Safety Standards Act (40 U.S.C. 3701 through 3708), including as follows:

- (1) *Overtime requirements.* No Contractor or subcontractor contracting for any part of the Agreement Work which may require or involve the employment of laborers or mechanics shall require or permit any such laborer or mechanic in any workweek in which he or she is employed on such work to work in excess of forty hours in such workweek unless such laborer or mechanic receives compensation at a rate not less than one and one-half times the basic rate of pay for all hours worked in excess of forty hours in such workweek.
- (2) *Violation; liability for unpaid wages; liquidated damages.* In the event of any violation of the clause set forth in paragraph (1) of this section the Contractor and any subcontractor responsible therefor shall be liable for the unpaid wages. In addition, such Contractor and subcontractor shall be liable to the United States, for liquidated damages. Such liquidated damages shall be computed with respect to each individual laborer or mechanic, including watchmen and guards, employed in violation of the clause set forth in paragraph (1) of this section, in the sum of \$10 for each calendar day on which such individual was required or permitted to work in excess of the standard workweek of forty hours without payment of the overtime wages required by the clause set forth in paragraph (1) of this section.
- (3) *Withholding for unpaid wages and liquidated damages.* The Town shall upon its own action or upon written request of an authorized representative of the U.S. Department of Labor withhold or cause to be withheld, from any moneys payable on account of work performed by the Contractor or subcontractor under any such contract or any other Federal contract with the same Contractor, or any other federally-assisted contract subject to the Contract Work Hours and Safety Standards Act, which is held by the same Contractor, such sums as may be determined to be necessary to satisfy any liabilities of such Contractor or subcontractor for unpaid wages and liquidated damages as provided in the clause set forth in paragraph (2) of this section.
- (4) *Subcontracts.* The Contractor or subcontractor shall insert in any subcontracts the clauses set forth in paragraph (1) through (4) of this section and also a clause requiring the subcontractors to include these clauses in any lower tier subcontracts. The Contractor shall be responsible for compliance by any subcontractor or lower tier subcontractor with the clauses set forth in paragraphs (1) through (4) of this section.

**2.2.3. Clean Air Act Compliance.** During the performance of this Agreement, the Contractor shall comply with the provisions of Clean Air Act (42 U.S.C. § 7401 et seq., as amended) and specifically agrees as follows:

- (1) The Contractor agrees to comply with all applicable standards, orders or regulations issued pursuant to the Clean Air Act, as amended, 42 U.S.C. § 7401 et seq.
- (2) The Contractor agrees to report each violation to the Town and understands and agrees that the Town will, in turn, report each violation as required to assure notification to the Environmental Protection Agency Region 4 (Southeast) Office.

- (3) The Contractor agrees to include these requirements in each subcontract exceeding \$100,000 financed in whole or in part with Federal assistance in connection with this Agreement.

**2.2.4. Federal Water Pollution Control Act Compliance.** During the performance of this Agreement, the Contractor shall comply with the provisions of Federal Water Pollution Control Act (33 U.S.C. § 1251 et seq., as amended) and specifically agrees as follows:

- (1) The Contractor agrees to comply with all applicable standards, orders or regulations issued pursuant to the Federal Water Pollution Control Act, as amended, 33 U.S.C. 1251 et seq.
- (2) The Contractor agrees to report each violation to the Town and understands and agrees that the Town will, in turn, report each violation as required to assure notification to the Environmental Protection Agency Region 4 (Southeast) Office.
- (3) The Contractor agrees to include these requirements in each subcontract exceeding \$100,000 financed in whole or in part with Federal assistance in connection with this Agreement.

**2.2.5. Debarment and Suspension Compliance.** During the performance of this Agreement, the Contractor warrants that Contractor or its subcontractors are not debarred, suspended, or otherwise ineligible for contract awards under Executive Orders 12549 and 12689. Contractor shall comply with the following provisions:

- (1) This Agreement is a covered transaction for purposes of 2 C.F.R. pt. 180, the U.S. Department of the Treasury's implementing regulations at 31 CFR Part 19, and 2 C.F.R. pt. 3000. As such the Contractor is required to verify that none of the Contractor, its principals (defined at 2 C.F.R. § 180.995), or its affiliates (defined at 2 C.F.R. § 180.905) are excluded (defined at 2 C.F.R. § 180.940) or disqualified (defined at 2 C.F.R. § 180.935).
- (2) The Contractor must comply with 2 C.F.R. pt. 180, subpart C and 2 C.F.R. pt. 3000, subpart C and must include a requirement to comply with these regulations in any lower tier covered transaction it enters into.
- (3) This certification is a material representation of fact relied upon by the Town. If it is later determined that the Contractor did not comply with 2 C.F.R. pt. 180, subpart C and 2 C.F.R. pt. 3000, subpart C, in addition to remedies available to the Town, the Federal Government may pursue available remedies, including but not limited to suspension and/or debarment.
- (4) The Contractor agrees to comply with the requirements of 2 C.F.R. pt. 180, subpart C and 2 C.F.R. pt. 3000, subpart C throughout the period of this Agreement. The Contractor further agrees to include a provision requiring such compliance in its lower tier covered transactions.
- (5) Contractor certifies that they:

- i. Are not presently debarred, suspended, proposed for debarment, declared ineligible, or voluntarily excluded from covered transactions by a Federal department or agency;
- ii. Have not, within a five (5)-year period preceding this proposal, been convicted of or had a civil judgment rendered against them for fraud or a criminal offense in connection with obtaining, attempting to obtain, or performing a public (Federal, State or Local) transaction or contract under public transaction; violation of Federal or State antitrust statutes or commission of embezzlement, theft, forgery, bribery, falsification or destruction of records, making false statements, or receiving stolen property.
- iii. Are not presently indicted or otherwise criminally or civilly charged by a governmental entity (Federal, State or Local); and
- iv. Have not, within a five (5)-year period preceding this Agreement, had one or more public transactions (Federal, State or Local) terminated for cause or default. If the Contractor is unable to obtain and provide such certification, then the Contractor shall attach an explanation to this Agreement as to why not.

**2.2.6. Byrd Anti-Lobbying Amendment (31 U.S.C. § 1352, as amended).** During the performance of this Agreement, the Contractor and its subcontractors shall comply with the provisions of the Byrd Anti-Lobbying Amendment (31 U.S.C. § 1352, as amended). Specifically, Contractor represents and warrants as follows:

- (1) No Funds received by the Contractor under this Agreement have been paid or will be paid, by or on behalf of the Contractor, to any person for influencing or attempting to influence an officer or employee of any agency, a member of Congress, an officer or employee of Congress, or an employee of a member of Congress in connection with the awarding of any Federal contract, the making of any Federal grant, the making of any Federal loan, the entering into of any cooperative agreement, and the extension, continuation, renewal, amendment, or modification of any Federal contract, grant, loan, or cooperative agreement.
- (2) If any monies, other than Funds received by Contractor under this Agreement, have been paid or will be paid to any person for influencing or attempting to influence an officer or employee of any agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with this Federal contract, grant, loan or cooperative agreement, the Contractor shall complete and submit Standard Form-LLL, "Disclosure of Lobbying Activities," in accordance with its instructions.
- (3) The Contractor shall require that this certification be included in the award documents for all subawards at all tiers (including subcontracts, subgrants, and contracts under grants, loans, and cooperative agreements) and that all such sub-recipients shall certify and disclose accordingly.
- (4) This certification is a material representation of fact upon which reliance was placed when this transaction was made or entered into. Submission of this certification is a prerequisite for making or entering into this transaction imposed by the Byrd Anti-

Lobbying Amendment (31 U.S.C. 1352). Any person who fails to file the required certification shall be subject to a civil penalty of not less than \$10,000 and not more than \$100,000 for each such failure.

**2.2.7. Copeland “Anti-Kickback” Act.** During the performance of this Agreement, the Contractor and its subcontractors shall comply with the provisions of the Copeland “Anti-Kickback” Act as follows:

- (1) The Contractor shall comply with 18 U.S.C. § 874, 40 U.S.C. § 3145, and the requirements of 29 C.F.R. part 3 as may be applicable, which are incorporated by reference into this Agreement.
- (2) Subcontracts. The Contractor or subcontractor shall insert in any subcontracts the clause above and such other clauses as the federal government may by appropriate instructions require, and also a clause requiring the subcontractors to include these clauses in any lower tier subcontracts. The prime contractor shall be responsible for the compliance by any subcontractor or lower tier subcontractor with all of these contract clauses.
- (3) Breach. A breach of the contract clauses above may be grounds for termination of this Agreement, and for debarment as a contractor and subcontractor as provided in 29 C.F.R. § 5.12.

**2.2.8. Procurement of Recovered Materials.** Contractor shall comply with the provisions of 2 C.F.R.323, including Section 6002 of the Solid Waste Disposal Act. Towards that end, in the performance of this Agreement, the Contractor shall make maximum use of products containing recovered materials that are EPA-designated items, unless the product cannot be acquired: (1) competitively within a timeframe providing for compliance with the contract performance schedule; (2) meeting contract performance requirements; or (3) at a reasonable price.

Information about this requirement, along with the list of EPA-designated items, is available at EPA’s Comprehensive Procurement Guidelines web site, <https://www.epa.gov/smm/comprehensiveprocurement-guideline-cpg-program>.

**2.2.9. Domestic Preferences for Procurements.** To the greatest extent practicable, Contractor and its subcontractors shall provide preference for the purchase, acquisition, or use of goods, products, or materials produced in the United States, in accordance with 2 CFR 200.322, “Domestic preferences for procurements.”

**2.2.10. 2 CFR Subpart F – Audit Requirements.** Contractor shall assist the Town in complying with the audit requirements under 2 CFR Subpart F – Audit Requirements (“Federal Audit Provisions”) and the reporting requirements of the U.S. Department of the Treasury’s Final Rule, as amended, and other guidelines issued in connection with the American Rescue Plan Act.

- (1) Contractor shall assist the Town in complying with the Federal Audit Provisions by providing the Town, the State of Florida, the U.S. Department of the Treasury, the Treasury Office of the Inspector General, the Government Accountability Office, or other federal government entities, and any of their duly authorized representatives,

access to personnel, accounts, books, records, supporting documentation, and other information relating to the performance of the Agreement or the Work (“Documentation”) necessary to complete federal audits. Contractor shall promptly assist the Town in the event Documentation must be supplemented to address audit findings or other federal inquiries.

(2) Contractor shall keep all Documentation up-to-date throughout the performance of this Agreement and the Work. Contractor shall provide the Town with all Documentation for each fiscal year by October 1 of each year or within five days of the completion of the Work, whichever occurs first. Contractor shall assist the Town in complying with additional guidance and instructions issued by the U.S. Department of the Treasury governing the reporting requirements for the use of American Rescue Plan Act Coronavirus State and Local Fiscal Recovery Funds.

3. **Conflict; Addendum Prevails.** In the event of any conflict or ambiguity between the terms and provisions of this Addendum and the terms and provisions of the Agreement, the terms and provisions of this Addendum shall control.

4. **Agreement Ratified.** Except as otherwise specifically set forth or modified herein, all terms in the Agreement are hereby ratified and affirmed and shall remain unmodified and in full force and effect in accordance with its terms.

5. **Defined Terms.** All initial capitalized terms used in this Addendum but not otherwise defined herein shall have the same meaning ascribed thereto in the Agreement.

6. **Counterparts.** This Addendum may be executed in counterparts, each of which shall be deemed an original, but all of which, when taken together, shall constitute one and the same instrument. An executed facsimile or electronic copy of this Addendum shall have the same force and effect as an original hereof.

**[Remainder of page intentionally left blank. Signature pages follow.]**

**IN WITNESS WHEREOF**, the parties hereto have caused this Addendum to be executed the day and year as first stated above.

**TOWN OF CUTLER BAY**

**CONTRACTOR**

By: \_\_\_\_\_  
Rafael G. Casals, ICMA-CM, CFM  
Town Manager

By: \_\_\_\_\_  
Name: \_\_\_\_\_  
Title: \_\_\_\_\_

Town Resolution No.: \_\_\_\_\_

Attest:

Witness:

By: \_\_\_\_\_  
Mauricio Melinu, CMC  
Town Clerk

By: \_\_\_\_\_  
Name: \_\_\_\_\_

Approved as to form and legal sufficiency:

Witness:

By: \_\_\_\_\_  
Weiss Serota Helfman Cole & Bierman, P.L.  
Town Attorney

By: \_\_\_\_\_  
Name: \_\_\_\_\_

**Addresses for Notice:**

Town of Cutler Bay  
Attn: Town Clerk  
10720 Caribbean Blvd., Suite 105  
Cutler Bay, FL 33189  
305-234-4262 (telephone)  
\_\_\_\_\_ (email)

**Addresses for Notice:**

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_ (telephone)  
\_\_\_\_\_ (email)

**With a copy to:**

Weiss Serota Helfman Cole & Bierman, P.L.  
Attn: Mitchell Bierman, Esq..  
Town of Cutler Bay Attorney  
2800 Ponce de Leon Boulevard, Suite 1200  
Coral Gables, FL 33134  
305-854-0800 (telephone)  
mbierman@wsh-law.com (email)

**With a copy to:**

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_ (telephone)  
\_\_\_\_\_ (email)



**SECTION 00600**  
**E-VERIFY AFFIDAVIT**

In accordance with Section 448.095, Florida Statutes, the Town requires all contractors doing business with the Town to register with and use the E-Verify system to verify the work authorization status of all newly hired employees. The Town will not enter into a contract unless each party to the contract registers with and uses the E-Verify system.

**The contracting entity must provide of its proof of enrollment in E-Verify.** For instructions on how to provide proof of the contracting entity's participation/enrollment in E-Verify, please visit: <https://www.e-verify.gov/faq/how-do-i-provide-proof-of-my-participationenrollment-in-e-verify>

By signing below, the contracting entity acknowledges that it has read Section 448.095, Florida Statutes and will comply with the E-Verify requirements imposed by it, including but not limited to obtaining E-Verify affidavits from subcontractors.

**Check here to confirm proof of enrollment in E-Verify has been attached to this Affidavit.**

In the presence of:

Signed, sealed and delivered by:

\_\_\_\_\_

\_\_\_\_\_

Witness #1 Print Name: \_\_\_\_\_

Print Name: \_\_\_\_\_

\_\_\_\_\_

Title: \_\_\_\_\_

Witness #2 Print Name: \_\_\_\_\_

Entity Name: \_\_\_\_\_

**ACKNOWLEDGMENT**

State of Florida

County of \_\_\_\_\_

The foregoing instrument was acknowledged before me by means of  physical presence or  online notarization, this \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_, by \_\_\_\_\_  
(name of person) as \_\_\_\_\_ (type of authority) for \_\_\_\_\_  
\_\_\_\_\_ (name of party on behalf of whom instrument is executed).

\_\_\_\_\_  
Notary Public (Print, Stamp, or Type as Commissioned)

\_\_\_\_\_ Personally known to me; or

\_\_\_\_\_ Produced identification (Type of Identification: \_\_\_\_\_)

\_\_\_\_\_ Did take an oath; or

\_\_\_\_\_ Did not take an oath

**SECTION 00610**

**PERFORMANCE BOND**

STATE OF FLORIDA  
COUNTY OF MIAMI-DADE

**KNOW ALL MEN BY THESEPRESENTS**, that \_\_\_\_\_ as

Principal, hereinafter called Contractor, and \_\_\_\_\_ as Surety,

hereinafter called Surety, are held and firmly bound unto the Town of Cutler Bay, as Obligee,

hereinafter called Owner, in the amount of \_\_\_\_\_

Dollars (\$\_\_\_\_\_) for the payment whereof Contractor and Surety bind themselves, their heirs, executors, administrators, successors, and assigns, jointly and severally, firmly by these presents.

**WHEREAS**, contractor has by written agreement dated \_\_\_\_\_, 20\_\_\_, entered into a Contract with Owner for:

**BEL AIRE, EUREKA DRIVE ESTS, CUTLER COUNTRY GROVES, ALLOM ESTS,  
AND SOUTH GROVE WATER QUALITY IMPROVEMENT PROJECT  
TOWN OF CUTLER BAY, FLORIDA**

in accordance with Drawings and Specifications prepared by Town Engineer which Contract is by reference made a part hereof and is hereinafter referred to as the Contract.

**NOW, THEREFORE, THE CONDITIONS OF THIS OBLIGATION ARE SUCH**, that, if the Principal shall in all respects promptly and faithfully perform and comply with the terms and conditions of said Contract and his obligations thereunder and shall indemnify the Owner and the Consulting Engineer and save either or all of them harmless against and from all costs, expenses and damages arising from the performance of said Contract or the repair of any work thereunder, then this obligation shall be void; otherwise, this Bond shall remain in full force and effect, in accordance with the following terms and conditions:

- A. The Principal and Surety jointly and severally agree to pay the Owner any difference between the sum to which the said Principal would be entitled on the completion of the Contract, and that sum which the Owner may be obliged to pay for the completion of said work by Contract or otherwise, and any damages, direct or indirect or consequential, which the said Owner may sustain on account of such work, or on account of the failure of said Contractor to properly and in all things, keep and execute all of the provision of said Contract.
- B. And this Bond shall remain in full force and effect for a period of one (1) year from the date of acceptance of the project by the Owner and shall provide that the Contractor guarantees to repair or replace for said period of one (1) year all work performed and materials and equipment furnished that were not performed or furnished according to the terms of the Contract, and shall make good, defects thereof which have become apparent before the expiration of said period of one (1) year. If any part of the project, in the judgment of the Owner, for the reasons above stated needs to be replaced, repaired, or made good during that time, the Owner shall so notify the Contractor in writing. If the Contractor refuses or neglects to do such work within five (5) days from the date of service of such Notice, the Owner shall have the work done by others and the cost thereof shall be paid by the Contractor or his Surety.
- C. And the said Surety, for value received hereby stipulates and agrees that no change, extension of time, alteration or addition to the terms of the Contract or to the work to be performed thereunder or the specifications accompanying the same shall in any way affect its obligations on this bond, and it does hereby waive Notice of any change, extension of time, alteration or addition to the terms of the Contract or to the work or to the Specifications.
- D. The surety represents and warrants to the Owner that they have a Best's Key Rating Guide General Policyholder's Rating of " \_\_\_\_\_ " and Financial Category of "Class \_\_\_\_\_".

**IN WITNESS WHEREOF**, the above bounded parties executed this instrument under their several seals, this \_\_\_ day of \_\_\_\_\_ 20\_\_\_ A.D., the name and corporate seal of each Corporate party being hereto affixed and these presents duly signed by its undersigned representative, pursuant to authority of its governing body.

WITNESS: (If Sole Ownership or Partnership, two (2) Witnesses required)  
(If Corporation, Secretary Only will attest and affix seal)

WITNESSES:

\_\_\_\_\_  
\_\_\_\_\_

PRINCIPAL:

\_\_\_\_\_  
Signature of Authorized Officer  
(Affix Seal)

\_\_\_\_\_  
Title

\_\_\_\_\_  
Business Address

\_\_\_\_\_  
City, State & Zip Code

WITNESSES:

\_\_\_\_\_  
\_\_\_\_\_

SURETY:

\_\_\_\_\_  
Corporate Surety

\_\_\_\_\_  
Title

\_\_\_\_\_  
Business Address

\_\_\_\_\_  
City, State & Zip Code

\_\_\_\_\_  
Name of Local Insurance Agency

**CERTIFICATES AS TO CORPORATE PRINCIPAL**

I, \_\_\_\_\_, certify that I am the Secretary of the Corporation names as Principal in the within Bond; that \_\_\_\_\_ who signed the said bond on behalf of the Principal, was the \_\_\_\_\_ of said Corporation; that I know his signature, and his signature hereto is genuine; and that said bond was duly signed, sealed, and attested for and on behalf of said Corporation by authority of its governing body.

\_\_\_\_\_  
Secretary (Corporate Seal)

STATE OF FLORIDA  
COUNTY OF MIAMI-DADE

Before me, a Notary Public, duly commissioned, qualified and acting, personally appeared

\_\_\_\_\_ To me well-known, who being by me first duly sworn upon oath, says that he is the Attorney-in-Fact, for the \_\_\_\_\_

\_\_\_\_\_ and that he

has been authorized by \_\_\_\_\_ to execute the foregoing bond on behalf of the

Contractor named therein in favor of the Town of Cutler Bay, Florida.

Sworn and subscribed to before me this \_\_\_\_ day of \_\_\_\_\_, 20 \_\_\_\_ A.D.

(Attach Power of Attorney)

\_\_\_\_\_  
Notary Public - State of Florida  
at Large  
My Commission Expires:

**[END OF SECTION]**

**SECTION 00620**

**PAYMENT BOND**

STATE OF FLORIDA

COUNTY OF MIAMI-DADE

**KNOW ALL MEN BY THESE PRESENTS**, that \_\_\_\_\_ as Principal, hereinafter called Contractor, and \_\_\_\_\_ as Surety, hereinafter called Surety, are held and firmly bound unto the Town of Cutler Bay, as Obligee, hereinafter called Owner, in the amount of \_\_\_\_\_ Dollars (\$) for the payment whereof Contractor and Surety bind themselves, their heirs, executors, administrators, successors, and assigns, jointly and severally, firmly by these presents.

**WHEREAS**, Contractor has by written agreement dated \_\_\_\_\_, 20\_\_\_\_, entered into a Contract with Owner for:

**BEL AIRE, EUREKA DRIVE ESTS, CUTLER COUNTRY GROVES, ALLOM ESTS,  
AND SOUTH GROVE WATER QUALITY IMPROVEMENT PROJECT  
TOWN OF CUTLER BAY, FLORIDA**

in accordance with Drawings and Specifications prepared by Town Engineer which Contract is by reference made a part hereof and is hereinafter referred to as the Contract.

**NOW, THEREFORE, THE CONDITIONS OF THIS OBLIGATION ARE SUCH**, that if the Principal shall promptly make payment to all claimants, as herein below defined, then this obligation shall be void; otherwise, this Bond shall remain in full force and effect, subject to the following terms and conditions:

- A. A claimant is defined as any person supplying the Principal with labor, material and supplies, used directly or indirectly by the said Principal or any subcontractor in the prosecution of the work provided for in said Contract, and is further defined in Section 255.05(1) of the Florida Statutes.

- B. The above named Principal and Surety hereby jointly and severally agree with the Owner that every claimant as herein defined, who has not been paid in full before the expiration of a period of ninety (90) days after performance of the labor or after complete delivery of materials and supplies by such claimant, may sue on this Bond for the use of such claimant, prosecute the suit to final judgment for such sum or sums as may be justly due claimant, and have execution thereon. The Owner shall not be liable for the payment of any costs or expenses of any such suit.
- C. No suit or action shall be commenced hereunder by any claimant.
1. Unless claimant, other than one having a direct contract with the Principal, shall within forty-five (45) days after beginning to furnish labor, materials or supplies for the prosecution of the work, furnish the Principal with a notice that he intends to look to this bond for protection.
  2. Unless claimant, other than one having a direct contract with the Principal, shall within ninety (90) days after such claimant's performance of the labor or complete delivery of materials and supplies, deliver to the Principal written notice of the performance of such labor or delivery of such material and supplies and the nonpayment therefore.
  3. After the expiration of one (1) year from the performance of the labor or completion of delivery of the materials and supplies; it being understood, however, that if any limitation embodied in this Bond is prohibited by any law controlling the construction hereof such limitations shall be deemed to be amended so as to be equal to the minimum period of limitation permitted by such law.
  4. Other than in a state court of competent jurisdiction in and for the county or other political subdivision of the state in which the project, or any part thereof, is situated, or in the United States District Court for the district in which the project, or any part thereof, is situated, and not elsewhere.
- D. The Principal and the Surety jointly and severally, shall repay the Owner any sum which the Owner may be compelled to pay because of any lien for labor or materials furnished for any work included in or provided by said Contract.
- E. The Surety, for value received, hereby stipulates and agrees that no change, extension of time, alteration of or addition to the terms of the Contract or to the work to be performed thereunder or the Specifications applicable thereto shall in any way affect its obligations on this Bond, and the Surety hereby waives notice of any such change, extension of time, alterations of or addition to the terms of the Contract, or to the work or to the Specifications.
- F. The Surety represents and warrants to the Owner that they have a Best's Key Rating Guide General Policyholder's rating of " \_\_\_\_\_ " and Financial Category of "Class \_\_\_\_\_".

**IN WITNESS WHEREOF**, the above bounded parties executed this instrument under their several seals, this \_\_\_\_ day of \_\_\_\_\_ 20\_\_\_, A.D., the name and corporate seal of each corporate party being hereto affixed, and these presents duly signed by its undersigned representative, pursuant to authority of its governing body.

WITNESS: (If Sole Ownership or Partnership, two (2) Witnesses Required)  
(If Corporation, Secretary Only will attest and affix seal)

WITNESSES:

\_\_\_\_\_  
\_\_\_\_\_

WITNESSES:

\_\_\_\_\_  
\_\_\_\_\_

PRINCIPAL:

\_\_\_\_\_  
Signature of Authorized Officer  
(Affix Seal)

\_\_\_\_\_  
Title

\_\_\_\_\_  
Business Address

\_\_\_\_\_  
City, State & Zip Code

SURETY:

\_\_\_\_\_  
Corporate Surety

\_\_\_\_\_  
Title

\_\_\_\_\_  
Business Address

\_\_\_\_\_  
City, State & Zip Code

\_\_\_\_\_  
Name of Local Insurance Agency



**CERTIFICATES AS TO CORPORATE PRINCIPAL**

I, \_\_\_\_\_, certify that I am the Secretary of the Corporation named as Principal in the within Bond; that \_\_\_\_\_ who signed the said bond on behalf of the Principal, was then \_\_\_\_\_ of said Corporation; that I know his signature, and his signature hereto is genuine; and that said bond was duly signed, sealed, and attested for and in behalf of said Corporation by authority of its governing body.

\_\_\_\_\_  
Corporate Secretary [Seal]

STATE OF FLORIDA

COUNTY OF MIAMI-DADE

Before me, a Notary Public, duly commissioned, qualified and acting, personally appeared \_\_\_\_\_ to be well known, who being by me first duly sworn upon oath, says that he is the Attorney-in-Fact, for the \_\_\_\_\_ and that he has been authorized by to execute the foregoing bond on behalf of the Contractor named therein in favor of the Town of Cutler Bay, Florida.

Sworn and subscribed to before me this \_\_\_\_ day of \_\_\_\_\_, 20 \_\_\_\_ A.D.

(Attach Power of Attorney)

\_\_\_\_\_  
Notary Public - State of Florida  
at Large  
My Commission Expires:

**[END OF SECTION]**

**SECTION 00650**

**CERTIFICATE OF INSURANCE**

THIS IS TO CERTIFY THAT THE \_\_\_\_\_

(Insurance Company)

Address \_\_\_\_\_

of \_\_\_\_\_

has issued policies of insurance, as described below and identified by a policy number, to the insured named below; and to certify that such policies are in full force and effect at this time. It is agreed that none of these policies will be canceled or changed so as to affect the interest(s) of the Town of Cutler Bay (hereinafter sometimes called the Owner) until thirty (30) days after written notice of such cancellation or change has been delivered to the Town Clerk, copy to Engineer.

Insured \_\_\_\_\_

Address \_\_\_\_\_

Status of Insured: \_\_\_\_\_ Corporation \_\_\_\_\_ Partnership \_\_\_\_\_ Individual

Location of Operations Insured \_\_\_\_\_

Description of Work:

**BEL AIRE, EUREKA DRIVE ESTS, CUTLER COUNTRY GROVES, ALLOM ESTS,  
AND SOUTH GROVE WATER QUALITY IMPROVEMENT PROJECT  
TOWN OF CUTLER BAY, FLORIDA**

**INSURANCE POLICIES IN FORCE:**

<b>Forms of Coverage</b>	<b>Policy Number</b>	<b>Exp. Date</b>
Workers Comp./Employers Liability	_____	_____
Comprehensive Automobile Liability	_____	_____
Comprehensive General Liability	_____	_____
Excess Liability	_____	_____
Other (Please specify type: _____)	_____	_____

**POLICY INCLUDES COVERAGE FOR:**

**YES**

**NO**

1.	Additional Insured: Owner & Engineer	_____	_____
2.	Liability under the United States Longshoremen's and Harbor Workers' Compensation Act.	_____	_____
3.	All owned, hired, or nonowned automotive equipment used in connection with work done for the Owner.	_____	_____
4.	contractual Liability	_____	_____
5.	damage caused by explosion, collapse or structural injury, and damage to underground utilities.	_____	_____
6.	products/Completed Operations	_____	_____
7.	owners and Contractors Protective Liability	_____	_____
8.	personal Injury Liability	_____	_____
9.	Excess Liability applies excess of:	_____	_____
	(a) Employers Liability	_____	_____
	(b) Comprehensive General Liability	_____	_____
	(c) Comprehensive Automobile Liability	_____	_____

**TYPES OF POLICY**

**FORMS OF COVERAGE**

**LIMITS OF LIABILITY**

Workers' Compensation	Bodily Injury	\$_____	Statutory
Employers Liability	Bodily Injury	\$_____	Each Accident
	Disease	\$_____	Each Person
	Disease	\$_____	Policy Limit
Comprehensive Auto Liability	Combined Single Limit BI/PD	\$_____	Each Accident

---

Comprehensive General	Bodily Injury	\$_____ Each Occurrence
	Liability	\$_____ Aggregate
	Property Damage	\$_____ Each Occurrence
		\$_____ Aggregate
	OR	
	Combined Single	
	Limit BI/PD	\$_____ Each Occurrence
		\$_____ Aggregate

---

Excess Liability	Combined Single	
	Limit BI/PD	\$_____ Aggregate

---

Other

---

The Insurance Company hereby agrees to deliver, within ten (10) days, two (2) copies of the above policies to the Engineer when so requested.

NOTE: Entries on this certificate are limited to the Authorized Agent or Insurance Company Representative.

Date _____	(SEAL) _____
	Insurance Company
Issued at _____	_____
	Authorized Representative

Insurance Agent or Company

Send original and one copy to:

Town of Cutler Bay  
 Public Works Department  
 Town of Cutler Bay Town Hall  
 10720 Caribbean Boulevard, Suite 105  
 Cutler Bay, Florida 33189  
 Attention: Mauricio Melinu, CMC., Town Clerk

**[END OF SECTION]**

**SECTION 00660**

**ACKNOWLEDGEMENT OF CONFORMANCE  
WITH O.S.H.A. STANDARDS**

TO THE TOWN OF CUTLER BAY:

We, \_\_\_\_\_, hereby acknowledge and agree that as Contractors for the construction of BEL AIRE, EUREKA DRIVE ESTS, CUTLER COUNTRY GROVES, ALLOM ESTS, AND SOUTH GROVE WATER QUALITY IMPROVEMENT PROJECT, TOWN OF CUTLER BAY, FLORIDA, Town Project No. ITB No. 24-02, within the limits of the Town of Cutler Bay, Florida, that we have the sole responsibility for compliance with all requirements of the Federal Occupational Safety and Health Act of 1970, and all State and Local Safety and Health regulations, and agree to indemnify and hold harmless the Town of Cutler Bay, and its Consulting Engineers against any and all legal liability or loss the Town, or the Engineer may incur due to failure to comply with such act.

\_\_\_\_\_  
ATTEST

\_\_\_\_\_  
CONTRACTOR

\_\_\_\_\_  
ATTEST

BY: \_\_\_\_\_  
NAME

\_\_\_\_\_  
DATE

**[END OF SECTION]**

**SECTION 00665**

**TRENCH SAFETY ACT COMPLIANCE**

Bidder acknowledges that the Florida Trench Safety Act, Section 553.60 et. seq. which became effective October 1, 1990, shall be in effect during the period of construction of the project. The Bidder, by signing and submitting the bids, in writing, assuring that it will perform any trench excavation in accordance with applicable trench safety standards. The Bidder further identifies the following separate item of costs of compliance with the applicable trench safety standards as well as the methods of compliance:

Methods of Compliance

---

---

---

Total \$ \_\_\_\_\_

Bidder acknowledges that this cost is included in the applicable items of the Proposal and in the Grand Total Bid Price. Failure to complete the above will result in the bid being declared non-responsive.

The Bidder is, and the Owner and Engineer are not, responsible to review or assess Bidder's safety precautions, programs or costs, or the means, methods, techniques or technique adequacy, reasonableness of cost, sequences or procedures of any safety precaution, program, or cost, including but not limited to, compliance with any and all requirements of Florida Statute Section 553.60 et. seq. cited as the "Trench Safety Act". Bidder is, and the Owner and Engineer are not, responsible to determine if any safety or safety related standards apply to the project, including but not limited to, the "Trench Safety Act."

\_\_\_\_\_  
Signature of Authorized Representative (Manual)

\_\_\_\_\_  
Name of Authorized Representative (Typed or Printed)

Sworn to and subscribed before me in the State and County first mentioned above on the day of \_\_\_\_\_, 20\_\_.

\_\_\_\_\_  
Notary Public  
My Commission Expires: (Affix seal)

**SECTION 00700**

**ADDENDUM**

## **SECTION 00800**

### **SPECIAL CONDITIONS**

#### **1.1 SCOPE**

- A. This project consists of BEL AIRE, EUREKA DRIVE ESTS, CUTLER COUNTRY GROVES, ALLOMESTS, AND SOUTH GROVE WATER QUALITY IMPROVEMENT PROJECT within the Town of Cutler Bay, as shown on project manual.

#### **1.2 NOTICES**

- A. In conformance with the requirements, all notices or other papers required to be delivered by the Contractor to the Owner shall be delivered to the office of the Owner's Engineer, at an address provided to the Contractor at the preconstruction conference.

#### **1.3 COORDINATION OF PLANS, SPECIFICATIONS AND SPECIAL PROVISIONS**

- A. In case of discrepancy, computed dimensions shall govern over scaled dimensions; supplemental specifications shall govern over Standard Specifications; and Special Conditions shall govern over; Drawings, Supplemental and Standard Specifications.

#### **1.4 LAYING OUT THE WORK**

- A. The Contractor shall be responsible for establishing all lines and grades together with all reference points as required by the various trades. All layout work shall be done using competent and experienced personnel under the supervision of a Land Surveyor registered in the State of Florida.
- B. The Contractor shall provide all labor, instruments and stakes, templates, and other materials necessary for marking and maintaining all lines and grades. The lines and grades shall be subject to any checking the Owner or Engineer may decide necessary.
- C. No separate cost item is provided for laying out the work, the cost of which is considered incidental to the work and shall be included in the unit prices for items in the Proposal.



- D. The Contractor shall safeguard all existing and known Property corners, monuments, and marks adjacent to but not related to the work and shall bear the cost of re-establishing them if disturbed or destroyed. He shall also safeguard all points, stakes, grade marks, monuments and benchmarks made or established on the work, bear the cost of re-establishing them if disturbed and bear the cost of rectifying work improperly installed due to not maintaining or protecting or to removing without authorization such established points, stakes, and marks.

**1.5 PRECONSTRUCTION CONFERENCE**

- A. The following parties will be asked to attend the Preconstruction Conference: BellSouth Telephone Company, Comcast Cable TV, Florida Power & Light Company, Town of Cutler Bay Public Works, City Gas Company of Florida, Miami-Dade Water and Sewer Department, and Miami-Dade County Public Works Department. At the preconstruction meeting, the Contractor shall present a construction phasing plan for the Engineers approval.

**1.6 PERMITS AND LICENSES**

- A. Before starting work, the Contractor shall obtain and pay for all required licenses and permits.

**1.7 CONTRACTOR'S OFFICE**

- A. The Contractor shall provide and maintain an office with telephone facilities where he or a responsible representative of his organization may be reached at any time while work is in progress. Such office may be at any location the Contractor considers desirable within Miami-Dade or Broward County.

**1.8 USE OF EXPLOSIVES**

- A. No blasting shall be done.

**1.9 USE OF PUBLIC STREETS**

- A. The use of public streets and alleys shall be such as to provide a minimum of inconvenience to the public and to other traffic. Certain elements of the work will be conducted off peak hours as specified in the Contract Documents. Any earth or other excavated material spilled from trucks shall be removed immediately by the Contractor and the streets cleaned to the satisfaction of the Owner.

**1.10**            **CARE OF TREES, SHRUBS AND GRASS**

- A.     The Contractor shall be fully responsible for maintaining in good condition all cultivated grass plots, trees, and shrubs. Where maintained shrubbery, grass strips or area must be removed or destroyed incident to the construction operation, the Contractor shall, after completion of the work, replace or restore to the original condition all destroyed or damaged sod, shrubbery, or grass areas. Tree limbs which interfere with equipment operation and are approved for pruning shall be neatly trimmed and the tree cut coated with a tree paint. The cost for restoration shall be included in the total Bid amount, no separate pay item for this work provided.

**1.11**            **OBSTRUCTIONS**

- A.     All water pipes, storm drains, force mains, gas or other piping, telephone or power cables or conduits, and all other obstructions, whether or not shown, shall be temporarily removed from or supported across pipeline excavations. Before disconnecting any pipes or cables, the Contractor shall obtain permission from the owner, or shall make suitable arrangements for their disconnection by the owner. The Contractor shall be responsible for any damage to any such pipes, conduits, or cables, and shall restore them to service promptly as soon as the work has progressed past the point involved. Approximate locations of known water, sanitary, drainage, power, and telephone installations along route of new pipelines or in vicinity of the work are shown but must be verified in the field by the Contractor. The Contractor shall uncover these pipes, ducts, cables, etc., carefully, by hand, to verify location and depth of cover. Any discrepancies or differences found shall be brought to the attention of the Owner and Engineer of Record in order that necessary changes may be made. These conditions are supplemental to general requirements elsewhere in these specifications. Where fences, walls or other man-made obstructions exist illegally in the public right-of-way, the Owner will have them removed upon adequate prior notice by the Contractor.

**1.12**            **DAMAGE TO EXISTING STRUCTURES AND UTILITIES**

- A.     The Contractor shall be responsible for and make good all damage to pavement and driveways beyond the limits of the work zone, to buildings, telephone or other cables, water pipes, sanitary pipes, or other structures which may be encountered, whether or not shown on the Drawings.
- B.     Information shown on the Drawings as to the location of existing utilities has been prepared from the most reliable data available to the Engineer. This information is not guaranteed, however, and it shall be this Contractor's responsibility to determine the location, character, and depth of any existing utilities. He shall assist the utility companies, by every means possible to determine said locations. Extreme caution shall be exercised to eliminate any possibility of any damage to utilities resulting from his activities.

**1.13**                    **NOTIFICATION TO UTILITY COMPANIES**

- A.     The excavators shall comply with Florida Statute 553.851 regarding notification of existing gas and oil pipeline company owners and shall also notify "SUNSHINE STATE ONE CALL FOR FLORIDA, INC." at 1-(800)432-4770 prior to excavating. Evidence of such notice shall be furnished to the City prior to excavating.

**1.14**                    **TESTS**

- A.     The Contractor will pay for all required tests. Generally, tests will be compaction and density tests, lime rock quality tests, concrete quality tests (cylinder breaks). On asphaltic concrete and pipe, the manufacturer's or supplier's certificate that the material meets the requirements of the specification will be accepted subject to verification by the Owner's Engineer. Any and all tests which have to be repeated because of the failure of the tested material to meet specifications shall be paid for by the Contractor and the costs of any such tests shall be deducted from payments due the Contractor. Water required for leakage tests shall be furnished by the Contractor.

- B.     Testing Frequencies

Concrete:        Perform one (1) test per 50 C.Y., or at least one (1) per day if less than 50 C.Y.  
One test shall consist of one (1) slump, temperature read and one (1) set of five (5) cylinders for compressive strength.

Roadway:        For sub-grade perform one (1) density test every 500 L.F. each lane (100% T-99). Sample for proctor test.  
For stabilized sub-grade, perform one (1) density test every 500 L.F. each lane (98% T-180). Sample for proctor test, and L.B.R.  
For Lime rock Base, perform one (1) density test every 500 L.F. each lane (98% T-180). Use Pit Proctor.  
For Curb Pad, perform one (1) density test every 1000 L.F. (98% T-180).

Drainage:        For trenches, perform one (1) density test every 1000 L.F.

**1.15**                    **RECORD AS-BUILT DRAWINGS**

- A.     During the entire construction operation, the Contractor shall maintain records of all deviations from the Drawings and Specifications and shall prepare therefrom "record" drawings showing correctly and accurately the locations of all improvements to reflect the work as it was actually constructed. The locations of all improvements shall be as surveyed and certified by a Land Surveyor licensed in the State of Florida and shall include edge of pavement and back of sidewalk elevations taken at 50-foot intervals and at high and low points, rim and invert elevations on all storm water inlets and manholes, trench bottom elevations on all trench drains taken at 25-foot intervals and top of pipe elevations on all storm sewers taken at 25-foot intervals. These drawings shall consist of reproducible and shall conform to recognized standards of

drafting, shall be neat and legible. One set of reproducible and one set of blue line prints shall be submitted to the Owner. Final acceptance of the project will be withheld until delivery of the set of "record" drawings is made to the Owner.

**1.16**            **SUBSURFACE INVESTIGATION**

- A.     The Contractor shall be responsible for having determined to his satisfaction, prior to the submission of his bid, the nature and location of the work, the conformation of the ground, the character and quality of the substrata, the types and quantity of materials to be encountered, the nature of the ground water conditions, the character of equipment and facilities needed preliminary to and during the execution of the work, the general and local conditions and all other matters which can in any way affect the work under this contract. The prices established for the work to be done will reflect all costs pertaining to the work. Any claims for extras based on substrata or ground water table conditions will not be allowed.

**1.17**            **SUSPENSION OF WORK**

- A.     Should the Owner be prevented or enjoined from proceeding with work either before or after the start of construction because of any litigation or other reason beyond the control of the Owner, the Contractor shall not be entitled to make or assert claim for damage by reason of said delay; but time for completion of the work will be extended to such reasonable time as the Owner may determine to compensate for time lost by such delay, with such determination to be set forth in writing.

**1.18**            **PAYMENT FOR UTILITIES**

- A.     The Contractor shall obtain the necessary utility service by making application for the service and paying such fees and charges required by the utility companies.

**1.19**            **MAINTENANCE OF TRAFFIC**

- A.     General:
  - 1.     The Contractor shall be responsible for the proper maintenance control and detour of traffic in the area of construction, during the course of construction. All traffic control and maintenance procedures shall be in accordance with the requirements of the Florida Department of Transportation and Miami-Dade County traffic engineering and the Town of Cutler Bay. It shall be the Contractor's responsibility, as Bidder, prior to submitting his Bid, to determine the requirements of these agencies so that his Proposal reflects all costs to be incurred, including the costs to hire off-duty police officers as required. No claims for additional payment will be considered for costs incurred in the proper maintenance, control, detour and protection of traffic.
  - 2.     Traffic shall be maintained at all times where practical and as more particularly specified hereinafter. No traffic shall be detoured without prior knowledge and approval of the respective traffic control agency having jurisdiction. The Contractor shall notify such agencies 48 hours in advance of such time he proposes to detour traffic.

3. The Contractor shall keep all law enforcement, fire protection and ambulance agencies informed, in advance, of his construction schedules, and shall notify all such agencies, 48 hours in advance, in the event of detour of any roadway.
4. All traffic control signs and devices, barricades, flashers, flambeaus, and similar devices shall be furnished and maintained by the Contractor.
5. Excavated or other material stored adjacent to or partially upon a roadway pavement shall be adequately marked for traffic and pedestrian safety at all times. Necessary access to adjacent property shall be provided at all times.
6. The work shall be conducted in a manner to cause the least possible interruption to traffic. Where traffic must cross excavations, the Contractor shall provide suitable bridges at street intersections and driveways.
7. The Contractor shall notify all businesses in the area that will be affected by the proposed detour or lane closure, 48 hours in advance of proposed work.
8. The Contractor shall provide access to all private property and driveways at all times.

## 1.20

### **BARRICADES AND PROTECTION OF WORK**

- A. The Contractor shall protect his work throughout its length by the erection of suitable barricades and handrails, where required. He shall further indicate this work at night by the maintenance of suitable lights or flares, especially along or across through-fares. Wherever it is necessary to cross a public walk, he shall provide suitable safe walkways with hand railings. He shall also comply with all laws or ordinances covering the protection of such work and the safety measures to be employed therein. The Contractor shall carry out his work so as not to deny access to private property. All utility access manholes, valves, fire hydrants and letter boxes shall be kept accessible at all times.

**[END OF SECTION]**

## **SECTION 00900**

### **SUMMARY OF WORK**

#### **1. GENERAL**

##### **1.1 DESCRIPTION**

A. Work included: Listing of Significant Items:

1. Work Sequence
2. Contractor Use of Sites
3. Owner Use of Facilities
4. Coordination

##### **1.2 WORK COVERED BY CONTRACT DOCUMENTS**

A. Work for this contract comprises work to be performed on the project entitled: **BEL AIRE, EUREKA DRIVE ESTS, CUTLER COUNTRY GROVES, ALLOM ESTS, AND SOUTH GROVE WATER QUALITY IMPROVEMENT PROJECT**, Town of Cutler Bay, Florida, as shown, described, and detailed within this project manual and on the project plans and specifications. The improvements include required drainage improvements as well as any necessary asphalt resurfacing, sidewalk repairs and improvements, and pavement markings.

##### **1.3 WORK SEQUENCE**

- A. Construct Work in phases to accommodate Owner's Service requirements during construction period.
- B. Coordinate construction schedule and operations with Engineer.

##### **1.4 CONTRACTOR USE OF SITES**

- A. Limit use of sites for Work and for construction operations, to allow for:
1. Owner servicing areas with municipal services.
  2. Work by other contractors.
  3. Public and Florida Power and Light access to adjacent properties.
- B. Limit access to construction area.
- C. Coordinate use of sites under direction of Engineer.

##### **1.5 OWNER USE OF FACILITIES**

- A. Owner will require use of roadway during entire period of construction.
- B. Cooperate with Owner to minimize conflict, and to facilitate Owner's servicing of area's municipal service needs.

## SECTION 01000

### **MEASUREMENT AND PAYMENT**

#### **1. GENERAL**

##### **1.1 DESCRIPTION**

- A. The Contractor shall receive and accept the compensation provided in the Proposal and the Contract as full payment for furnishing all materials, labor, tools and equipment, for performing all operations necessary to complete the work under the Contract, and also in full payment for all loss or damages arising from the nature of the work, or from any discrepancy between the actual quantities of work and quantities herein estimated by the Engineer/Architect, or from the action of the elements or from any unforeseen difficulties which may be encountered during the prosecution of the work until the final acceptance by the Owner.
- B. The prices stated in the proposal include all costs and expenses for taxes, labor, equipment, materials, commissions, transportation charges and expenses, patent fees and royalties, labor for handling materials during inspection, together with any and all other costs and expenses for performing and completing the work as shown on the Drawings and specified herein.
- C. The Contractor's attention is again called to the fact that the quotations for the various items of work are intended to establish a total price for completing the work in its entirety. Should the Contractor feel that the cost for any item of work has not been established by the Bid Form or Payment Items, he shall include the cost for that work in some other applicable bid item, so that his proposal for the project does reflect his total price for completing the work in its entirety.

##### **1.2 MEASUREMENT**

- A. The quantities for payment under this Contract shall be determined by measurements of the completed items, in place, ready for service and accepted by the Owner.

##### **1.3 PAYMENT ITEMS**

- A. Basis of Payment

Contract prices for the various work items are intended to establish a total price for completing the project in its entirety. The Contractor shall include in the Bid price any work item and materials for which a separate pay item has not been included in the Bid Form. All work and incidental costs shall be included for payment under the several scheduled items of the overall contract, and no separate payment will be made therefor.

## **SECTION 01010**

### **SUBMITTALS AND SUBSTITUTIONS**

#### **1. GENERAL**

##### **1.1 SECTION INCLUDES:**

- A. Work included: Make submittals required by the Contract Documents, and revise and resubmit as necessary to establish compliance with the specified requirements.

##### **1.2 RELATED SECTIONS:**

- A. Documents affecting work of Sections in Division 1 of these Specifications.
- B. Individual requirements for submittals also may be described in pertinent Sections of these Specifications.
- C. Work not included:
  - 1. Submittals which are not required will not be reviewed by the Engineer.
  - 2. The Contractor may require his subcontractors to provide drawings, setting diagrams, and similar information to help coordinate the Work, but such data shall remain between the Contractor and his subcontractors and will not be reviewed by the Engineer.

##### **1.3 SUBMITTALS FOR REVIEW**

- A. Make submittals of Shop Drawings, Samples, substitution requests, and other items in accordance with the provisions of this Section.

##### **1.4 QUALITY ASSURANCE**

- A. Coordination of submittals:
  - 1. Prior to each submittal, carefully review and coordinate all aspects of each item being submitted.
  - 2. Verify that each item and the submittal for it conform in all respects with the specified requirements.
  - 3. By affixing the Contractor's signature to each submittal, certify that this coordination has been performed.



B. Substitutions:

1. The Contract is based on the standards of quality established in the Contract Documents. Substitutions will be considered only when listed at time of bidding, on the Contractors letterhead and when substantiated by the Contractor's submittal of required data within 10 calendar days after the bid opening.
2. The following products do not require further approval except for interface within the Work:
  - a. Products specified by reference to standard specifications such as ASTM and similar standards.
  - b. Products specified by manufacturer's name and catalog model number.
3. Do not substitute materials, equipment, or methods unless such substitution has been specifically approved in writing for this Work by the Engineer.

C. "Or Equal":

1. Where the phrase "or equal," or "or equal as approved by the Architect/Engineer," occurs in the Contract Documents, do not assume that the materials, equipment, or methods will be approved as equal unless the item has been specifically so approved for this Work by the Engineer.
2. The decision of the Engineer shall be final.

**2. PRODUCTS**

**2.1 SHOP DRAWINGS**

- A. Scale and measurements: Make Shop Drawings accurately to a scale sufficiently large to show all pertinent aspects of the item and its method of connection to the Work.
- B. Types of prints required:
  1. Submit Shop Drawings in the form of three blue line or black line prints of each sheet.
  2. Blueprints alone will not be acceptable.
- C. Review comments of the Engineer will be shown on the blue line or black line when it is returned to the Contractor. The Contractor may make and distribute such copies as are required for his purposes.

## **2.2**            **MANUFACTURER'S LITERATURE**

- A.    Where contents of submitted literature from manufacturers include data not pertinent to the submittal, clearly show which portions of the contents is being submitted for review.
- B.    Submit the number of copies which are required to be returned, plus one copy which will be retained by the Engineer.

## **2.3**            **SAMPLES (ONLY IF REQUIRED IN OTHER SECTIONS)**

- A.    Provide Sample of Samples identical to the precise article proposed to be provided. Identify as described under "Identification of submittals" below.
- B.    Number of Samples required:
  - 1.     Unless otherwise specified, submit Samples, in the quantity which is required to be returned, plus one which will be retained by the Engineer.
  - 2.     By prearrangement in specific cases, a single Sample may be submitted for review and, when approved, be installed in the Work at a location agreed upon by the Engineer.

## **3.**            **EXECUTION**

### **3.1**            **IDENTIFICATION OF SUBMITTALS**

- A.    Consecutively number all submittals.
  - 1.     When material is resubmitted for any reason, transmit under a new letter of transmittal and with a new transmittal number.
  - 2.     On resubmittals, cite the original submittal number for reference.
- B.    Accompany each submittal with a letter of transmittal showing all information required for identification and checking.
- C.    On at least the first page of each submittal, and elsewhere as required for positive identification, show the submittal number in which the item was included.
- D.    Maintain an accurate submittal log for the duration of the Work, showing current status of all submittals at all times. Make the submittal log available to the Engineer for his review upon request.

### **3.2 GROUPING OF SUBMITTALS**

- A. Unless otherwise specified, make submittals in groups containing all associated items to assure that information is available for checking each item when it is received.
- B.
  - 1. Partial submittals may be rejected as not complying with the provisions of the Contract.
  - 2. The Contractor may be held liable for delays so occasioned.

### **3.3 TIMING OF SUBMITTALS**

- A. Make submittals far enough in advance of scheduled dates for installation to provide time required for reviews, for securing necessary approvals, for possible revisions and resubmittals, and for placing orders and securing delivery.
- B. In scheduling, allow at least ten working days for review by the Engineer following his receipt of the submittal.

### **3.4 ENGINEER'S REVIEW**

- A. Review by the Engineer does not relieve the Contractor from responsibility for errors which may exist in the submitted data.
- B. Revisions:
  - 1. Make revisions required by the Engineer.
  - 2. If the Contractor considers any required revision to be a change, he shall so notify the Engineer within ten calendar days in writing.
  - 3. Make only those revisions directed or approved by the Engineer.
- C. Reimbursement of Engineer's costs:
  - 1. In the event substitutions are proposed to the Engineer after the Contract has been awarded, the Engineer will record all time used by him and by his consultants in evaluation of each such proposed substitution.
  - 2. Whether or not the Engineer approves a proposed substitution, the Contractor promptly upon receipt of the Engineer's billing shall reimburse the Engineer at the rate of three times the direct cost to Engineer and his consultants for all time spent by them in evaluating the proposed substitution.

**[END OF SECTION]**

## **SECTION 01025**

### **MAINTENANCE OF TRAFFIC**

#### **1. GENERAL**

##### **1.1 DESCRIPTION**

- A. The Contractor shall furnish all equipment, supplies, personnel, labor, and services to accomplish maintenance of traffic at all locations required to complete this project and as authorized by the Engineer.
- B. The intent is to maintain safe and expeditious movement of traffic around every work area where the public may be exposed to the potential hazards of the contract operations.
- C. The term "Maintenance of Traffic" as used in the contract drawings or in these Specifications shall mean the maintenance of traffic movement through and/or around any work site within a public right-of-way in a manner such as to provide minimum disruption and maximum safety to both the public and project personnel and equipment.

##### **1.2 QUALITY ASSURANCE**

- A. Maintenance of Traffic in the public rights-of-way shall be in strict accordance with the manual of uniform traffic control devices (M.U.T.C.D.).
- B. Maintenance of Traffic on F.D.O.T. roads shall be as indicated on the contract drawings and as specified in F.D.O.T. index 600.
- C. All traffic control and warning devices so specified; which are not on F.D.O.T. roadways, shall unless otherwise specified by the Department of Traffic and Transportation, be furnished, installed according to the Miami-Dade County Public Works Manual, part I, Standard Details (No. R-19 series), and maintained by the contractor involved.
- D. When required by the Town of Cutler Bay, supervision of traffic control and safety by a Uniformed Police Officer shall be furnished by the Contractor without cost to the Town. The Contractor is required to retain the services of the Town of Cutler Bay Police Officers for the supervision. Further, any and all additional traffic measures deemed necessary by such officers shall be carried out by the Contractor without cost to the Town.

**1.3**

**ADDITIONAL REQUIREMENTS**

- A. All open trenches and holes adjacent to roadway or walkways shall be properly marked and barricaded to assure the safety of both vehicular and pedestrian traffic.
- B. No trenches or holes near walkways, in roadways or their shoulders are to be left open during night-time hours without express permission of the Town of Cutler Bay, Public Works Department and the Engineer, in writing. Trenches shall be backfilled or covered with steel plates.

**[END OF SECTION]**

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## **SECTION 01340**

### **PRODUCT HANDLING**

#### **1. GENERAL**

##### **1.1 SECTION INCLUDES**

- A. Work included: Protect products scheduled for use in the Work by means including, but not necessarily limited to, those described in this Section.

##### **1.2 RELATED SECTIONS**

- A. Documents affecting work of this Section include but are not necessarily limited to Sections in Division 1 of the Specifications.
- B. Additional procedures also may be prescribed in other Sections of these Specifications.

##### **1.3 QUALITY ASSURANCE**

- A. Include within the Contractor's quality assurance program such procedures as are required to assure full protection of work and materials.

##### **1.4 MANUFACTURER'S RECOMMENDATIONS**

- A. Except as otherwise approved by the Engineer determine and comply with manufacturer's recommendations on product handling, storage, protection, and installation.

##### **1.5 PACKAGING**

- A. Deliver products to the job site in their manufacturer's original container with labels intact and legible.
  - 1. Maintain packaged materials with seals unbroken and labels intact until time of use.
  - 2. Promptly remove damaged material and unsuitable items from the job site, and promptly replace with material meeting the specified requirements, at no additional cost to the Owner.
- B. The Engineer may reject as non-complying such material and products that do not bear identification satisfactory to the Engineer as to manufacturer, grade, quality, and other pertinent information.

**1.6**            **PROTECTION**

- A.    Protect finished surfaces, including jambs and soffits of openings used as passageways, through which equipment and materials are handled.
- B.    Provide protection for finish floor surfaces in traffic areas prior to allowing equipment or materials to be moved over such surfaces.
- C.    Maintain finished surfaces clean, unmarred, and suitably protected until accepted by the Owner.

**1.7**            **REPAIRS AND REPLACEMENTS**

- A.    In the event of damage, promptly make replacements and repairs to the approval of the Engineer and at no additional cost to the Owner.
- B.    Additional time required to secure replacements and to make repairs will not be considered by the Engineer to justify an extension in the Contract Time of Completion.

**[END OF SECTION]**

**[SPACE LEFT INTENTIONALLY BLANK]**

## **SECTION 01550**

### **SUBSURFACE INVESTIGATION**

#### **1. GENERAL**

##### **1.1 DESCRIPTION**

- A. Bidders should visit the site and acquaint themselves with existing conditions.
- B. Prior to bidding, bidders may make their own subsurface investigation to satisfy themselves as to site and subsurface conditions, but such investigations may be performed only under time schedules and arrangements approved in advance by the Engineer.

##### **1.2 QUALITY ASSURANCE**

- A. Readjust work performed that does not meet technical or design requirements, but make no deviation from the Contract Documents without specific and written approval from the Engineer.

**[END OF SECTION]**



## **SECTION 01640**

### **SITE WORK**

#### **1. GENERAL**

##### **1.1 CLEARING AND GRUBBING**

- A. All roots, stumps, and other perishable matter shall be removed to a depth of two feet (2') below existing ground in areas of fill or two feet (2') below the finished subgrade surface in areas of excavation. The entire area shall be cleared of heavy vegetation, grass, roots and other perishable material before excavation or fill is started. Any holes or depressions resulting from the removal of stumps, roots, etc. shall be immediately filled with acceptable material, and brought to the same degree of compaction as the surrounding area. Any trees, poles, structures, etc. designated for preservation shall be protected and left standing. The Contractor shall remove from the job site, and dispose of, all timber, stumps, roots, and objectionable material resulting from clearing and grubbing. All trees and shrubs scheduled for removal shall be removed under this section. No extra cost shall be allowed for tree removal unless otherwise shown on bid proposal.

**[END OF SECTION]**

## **SECTION 02010**

### **SHORING AND BRACING OF EXCAVATIONS**

#### **1. GENERAL**

##### **1.1 DESCRIPTION**

- A. Work included: Provide shoring at excavations and elsewhere as required to protect workmen, materials, other properties, and the public.
- B. Related Work:
  - 1. Documents affecting work of this Section include but are not necessarily limited to Sections in Division 1 of these Specifications.
  - 2. The Contractor is solely responsible for means and methods of construction and for the sequences and procedures to be used.

##### **1.2 QUALITY ASSURANCE**

- A. Use adequate numbers of skilled workmen who are thoroughly trained and experienced in the necessary crafts and who are completely familiar with the specified requirements and the methods needed for proper performance of the work of this Section.
- B. Employ a professional engineer registered in the State of Florida, who is qualified to design the shoring system and to inspect and report on the quality of its construction. All plans must bear the signature and seal of this engineer.
- C. Comply with pertinent requirements of governmental agencies having jurisdiction, and with the Florida Trench Safety Act (See Section 00665).

##### **1.3 SUBMITTALS**

- A. Comply with pertinent provisions of Section 01340.
- B. Prior to submitting shoring design for approval of governmental agencies having jurisdiction, submit the design to the Engineer for review.
  - 1. Should changes in the shoring design be required subsequent to the Engineers review, coordinate all such changes with the Engineer and secure the Engineer approval of changes in space allocations.

- C. Upon completion of construction of this portion of the Work, submit to the Engineer two copies of a letter signed by the approved shoring design engineer stating that, to the best of the shoring design engineer's knowledge, the shoring system was constructed in accordance with the arrangement reviewed by the Engineer.

**2. PRODUCTS**

**2.1 DESIGN**

- A. Design a shoring system which will safely and adequately prevent collapse of adjacent materials, and which will permit construction of the Work to the arrangement shown on the Drawings.
- B. Secure all needed approvals, including those of governmental agencies having jurisdiction and of adjacent property owners if required, at no additional cost to the Owner.

**2.2 MATERIALS**

- A. Provide materials of all kinds as required for execution of the approved shoring system.

**3. EXECUTION**

**3.1 SURFACE CONDITIONS**

- A. Examine the areas and conditions under which work of this Section will be performed. Correct conditions detrimental to timely and proper completion of the Work. Do not proceed until unsatisfactory conditions are corrected.

**3.2 INSTALLATION**

- A. Construct and install the shoring system in strict accordance with the design approved by the governmental agencies having jurisdiction, and in strict accordance with the space arrangement approved by the Engineer.

**[END OF SECTION]**

## **SECTION 02020**

### **EARTHWORK FOR UTILITY STRUCTURES**

#### **1. GENERAL**

##### **1.1 DESCRIPTION**

- A. Work included: Excavation, backfilling, and compaction for the installation of utility structures and related construction.
- B. Related Work:
  - 1. Documents affecting work of this Section include but are not necessarily limited to Sections in Division 1 of these Specifications.

##### **1.2 QUALITY ASSURANCE**

- A. Codes and Standards: Perform excavation work in compliance with applicable requirements of authorities having jurisdiction.
- B. Testing and Inspection Services: Contractor shall employ and pay for a qualified independent geotechnical testing laboratory to perform soil testing and inspection service during earthwork operations.
- C. Testing Laboratory Qualifications: To qualify for acceptance, the geotechnical testing laboratory must demonstrate to the Engineer's satisfaction, based on evaluation of laboratory-submitted criteria conforming to ASTM E 699, that it has the experience and capability to conduct required field and laboratory geotechnical testing without delaying the progress of the Work.

##### **1.3 SUBMITTALS**

- A. Test Report: Submit the following reports directly to the Engineer from the testing services, with a copy to the Contractor:
  - 1. Verification of suitability of each footing sub-grade material, in accordance with specified the requirements.
  - 2. Field reports; in-place soil density tests.
  - 3. Report of actual unconfined compressive strength and/or results of bearing tests of each strata tested.

##### **1.4 PROJECT CONDITIONS**

- A. Site Information:
  - 1. Test borings and exploratory operations may be performed by Contractor, at the Contractor's option; however, no change in the Contract Sum will be authorized for such exploration.

- B. Existing Utilities: Locate existing underground utilities in areas of excavation of work. If utilities are indicated to remain in place, provide adequate means of support and protection during earthwork operations.
1. Should uncharted, or incorrectly charted, piping, or other utilities be encountered during excavation, consult Engineer immediately for directions. Cooperate with Owner and utility companies in keeping respective services and facilities in operation. Repair any damaged utilities to the satisfaction of utility owner.
  2. Do not interrupt existing utilities serving facilities occupied by owner or others, during occupied hours, except when permitted in writing by the Engineer; and then only after acceptable temporary utility services have been provided.
  3. Provide a minimum of 48-hour notice to the Engineer and receive written notice to proceed before interrupting any utility.
- C. Use of Explosives: Use of explosives is not permitted.
- D. Protection of Persons and Property: Barricade open excavations occurring as part of this work and post with warning lights.
1. Operate warning lights as recommended by authorities having jurisdiction.
  2. Protect building structures, utilities, sidewalks, pavements, and other facilities from damage caused by settlement, lateral movement, undermining, washout, and other hazards created by earthwork operations.
  3. Perform excavation by hand within dripline of large trees to remain. Protect root systems from damage or dry-out to the greatest extent possible. Maintain moist conditions for root system and cover exposed roots with moistened burlap.

## 2. **PRODUCTS**

### 2.1 **SOIL MATERIALS**

- A. Satisfactory soil materials are defined as those complying with ASTM D2487 soil classification groups GW, GP, GM, SM, SW, and SP.
- B. Unsatisfactory soil materials are defined as those complying with ASTM D3487 soil classification groups GC, SC, ML, MH, CL, CH, OL, OH, and PT.
- C. Sub-base Material: Naturally or artificially graded mixture of natural or crushed gravel, crushed stone, crushed slag, crushed lime rock and natural or crushed sand.
- D. Backfill and Fill Materials: Satisfactory soil materials free of clay, rock, or gravel larger than 2 inches in any dimension, debris, waste, frozen materials, vegetation and other deleterious matter.

### 3. **EXECUTION**

#### 3.1 **EXCAVATION**

- A. Excavation is unclassified and includes excavation to subgrade elevations indicated, regardless of character of materials and obstructions encountered. the Work. Do not proceed until unsatisfactory conditions are corrected.
- B. Excavation Classifications: The following classifications of excavation will be made when rock is encountered:
  - 1. Earth Excavation includes excavation of pavements and other obstructions visible on surface; underground structures, utilities, and other items indicated to be demolished and removed; together with earth and other materials encountered that are not classified as rock or unauthorized excavation.
  - 2. Rock excavation for trenches and pits includes removal and disposal of materials and obstructions encountered that cannot be excavated with a track mounted power excavator, equivalent to Caterpillar Model No. 215CLC, and rated at not less than 115 HP flywheel power and 32,000-pound drawbar pull and equipped with a short stick and a 42-inch wide, short tip radius rock bucket rated at 0.81 cubic yard (heaped) capacity. Trenches in excess of 10 feet in width and pits in excess of 30 feet in either length or width are classified as open excavation.
  - 3. Rock excavation in open excavations includes removal and disposal of materials and obstructions encountered that cannot be dislodged and excavated with modern, track-mounted, heavy-duty excavating equipment is defined as Caterpillar Model No. 973 or equivalent track-mounted loader, rated not less than 210 HP flywheel power and developing minimum of 45,000-pound breakout force (measured in accordance with SAE J732).
    - a. Typical of materials classified as rock are (boulders 1/2 cu. yd. or more in volume, solid rock, rock in ledgers, and rock-hard cementitious aggregate deposits.
    - b. Intermittent drilling or ripping performed to increase production and not necessary to permit excavation of material encountered will be classified as earth excavation.

#### 3.2 **STABILITY OF EXCAVATIONS**

- A. General: Comply with local codes, ordinances, and requirements of agencies having jurisdiction.
- B. Slope sides of excavations to comply with local codes, ordinances, and requirements of agencies having jurisdiction. Shore and brace where sloping is not possible because of space restrictions or stability of material excavated. Maintain sides and slopes of excavations in safe condition until completion of backfilling.

- C. Shoring and Bracing: Provide materials for shoring and bracing, such as sheet piling, uprights, stringers, and shoring and bracing in excavations regardless of time period excavations will be open. Extend shoring and bracing as excavation progresses.

### **3.3 DEWATERING**

- A. Prevent surface water and subsurface or ground water from flowing into excavations and from flooding project site and surrounding area.
  - 1. Do not allow water to accumulate in excavations. Remove water to prevent softening of foundation bottoms, undercutting structure bases, and soil changes detrimental to stability of subgrades and foundations. Provide and maintain pumps, well points, sumps, suction and discharge lines, and other dewatering system components necessary to convey water away from excavations.
  - 2. Establish and maintain temporary drainage ditches and other diversions outside excavation limits to convey rainwater and water removed from excavations to collecting or runoff areas. Do not use trench excavations as temporary drainage ditches.

### **3.4 STORAGE OF EXCAVATED MATERIALS**

- A. Stockpile excavated materials acceptable for backfill and fill where directed. Place, grade, and shape stockpiles for proper drainage.
- B. Dispose of excess excavated soil material and materials not acceptable for use as backfill or fill.

### **3.5 EXCAVATION FOR STRUCTURES**

- A. Conform to elevations and dimensions shown within a tolerance of plus or minus 0.10 foot and extending a sufficient distance from footings and foundations to permit placing and removal of concrete formwork, installation of services, and other construction and for inspection.
  - 1. Excavations for footings and foundations: Do not disturb bottom of excavation. Excavate by hand to final grade just before concrete reinforcement is placed. Trim bottoms of required lines and grades to leave solid base to receive other work.

### **3.6 BACKFILL AND FILL**

- A. General: Place soil material in layers to the required subgrade elevations, for each area classification listed below, using materials specified in Part 2 of this Section.

- B. Backfill excavations as promptly as work permits, but not until completion of the following:
  - 1. Acceptance of construction below finish grade including where applicable, damp proofing, waterproofing, and perimeter insulation.
  - 2. Removal of concrete formwork.
  - 3. Removal of shoring and bracing, and backfilling of voids with satisfactory materials. Cut off temporary sheet piling driven below bottom of structures and remove in a manner to prevent settlement of the structure or utilities or leave in place if required.
  - 4. Removal of trash and debris from excavation.
  - 5. Permanent or temporary horizontal bracing is in place on horizontally supported walls.

### **3.7 PLACEMENT AND COMPACTION**

- A. Ground Surface Preparation: Remove vegetation, debris, unsatisfactory soil materials, obstructions, and deleterious materials from ground surface prior to placement of fills. Plow, strip, or break up sloped surfaces steeper than 1 vertical to 4 horizontal so that fill material will bond with existing surface.
  - 1. When existing ground surface has a density less than that specified under "Compaction" for a particular area classification, break up the ground surface, pulverize, moisture-condition to optimum moisture content, and compact to the required depth and percentage of maximum density.
- B. Place backfill and fill materials in layers not more than 6 inches in loose depth for material compacted by heavy compaction equipment, and not more than 4 inches in loose depth for material compacted by hand-operated tampers.
- C. Before compaction, moisten or aerate each layer as necessary to provide optimum moisture content. Compact each layer to the required percentage of maximum dry density or relative dry density for each area classification. Do not place backfill or fill material on surfaces that are muddy.
- D. Place backfill and fill materials evenly adjacent to structures, piping, or conduit to the required elevations. Prevent wedging action of backfill against structures or displacement of piping or conduit by carrying material uniformly around structure, piping, or conduit to approximately same elevation in each lift.



- E. Control soil and fill compaction, providing a minimum percentage of density as specified for each area classification indicated below. Correct improperly compacted areas or lifts as directed by the Engineer if soil density tests indicate inadequate compaction.
  - 1. Percentage of Maximum Density Requirements: Compact soil to not less than the following percentages of maximum density, in accordance with AASHTO T-1800:
    - a. Under structures, (and pavements, compact top 12 inches of subgrade and each layer of backfill or fill material at 98 percent minimum density.
  - 2. Moisture Control: Where subgrade or a layer of soil material must be moisture conditioned before compaction, uniformly apply water to surface of the subgrade or layer of soil material. Apply water in minimum quantities as necessary to prevent free water from appearing on the surface during or subsequent to compaction operations.
    - a. Remove and replace, or scarify and air dry, soil material that is too wet to permit compaction to specified density.
    - b. Stockpile or spread soil material that has been removed because it is too wet to permit compaction. Assist drying by harrowing or pulverizing until moisture content is reduced to a satisfactory value.

### **3.8 GRADING**

- A. Uniformly grade areas within limits of grading under this section, including adjacent transition areas. Smooth finished surface within specified tolerances, compact with uniform levels or slopes between points where elevations are indicated or between such points and existing grades.
- B. Grade areas adjacent to building lines to drain away from structures and to prevent ponding. Finish surfaces free from irregular surface changes and as follows:
  - 1. Pavement: Shape surface of areas under pavement to line, grade, and cross-section, with the finished surface not more than 1/2 inch above or below the required subgrade elevation.
- C. Grading surface of fill under building slabs: Grade smooth and even, free of voids, compacted as specified, and to the required elevation. Provide final grades within a tolerance of 1/2 inch when tested with a 10-foot straight edge.
- D. Compaction: After grading, compact subgrade surfaces to the depth and indicated percentage of maximum or relative density for each area classification.

### 3.9

#### **FIELD QUALITY CONTROL**

- A. Quality Control Testing during Construction: Allow testing service to inspect and approve each subgrade and fill layer before further backfill or construction work is performed.
1. Perform field density tests in accordance with ASTM D 1556 (sand cone method) or ASTM D 2167 (rubber balloon method), as applicable.
    - a. Field density tests may also be performed by the nuclear method in accordance with ASTM D 2922, providing that calibration curves are periodically checked and adjusted to correlate to tests performed using ASTM D 1556. In conjunction with each density calibration check, check the calibration curves furnished with the moisture gages in accordance with ASTM D 3017.
    - b. If field tests are performed using nuclear methods, make calibration checks of both density and moisture gages at the beginning of the work, on each different type of material encountered, and at intervals as directed by the Engineer.
  2. Foundation Subgrade: For each strata of soil on which footings will be placed, perform at least one test to verify required design bearing capacities. Subsequent verification and approval of each foundation subgrade may be based on a visual comparison of each subgrade with related tested strata when acceptable to the Engineer.
  3. Paved Areas: In each compacted fill layer, perform one field density test for every 500 L.F. of overlaying or paved area, but in no case fewer than three tests.
  4. Foundation Wall Backfill: Perform at least two field density tests at locations and elevations as directed.
  5. If in the opinion of the Engineer, based on the testing service reports and inspections, subgrade or fills that have been placed are below the specified density, perform additional compaction and testing until the specified density is obtained.

### 3.10

#### **EROSION CONTROL**

- A. Provide erosion control methods in accordance with requirements of authorities having jurisdiction.

### 3.11

#### **MAINTENANCE**

- A. Protection of Graded Areas: Protect newly graded areas from traffic and erosion. Keep free of trash and debris.

- B. Repair and reestablish grades in settled, eroded, and rutted areas to specified tolerances.
- C. Reconditioning Compacted Areas: Where completed compacted areas are disturbed by subsequent construction operations or adverse weather, scarify surface, reshape, and compact to the required density prior to further construction.
- D. Settling: Where settling is measurable or observable at excavated areas during the general project warranty period, remove surface (pavement, lawn, or other finish), add backfill material, compact, and replace surface treatment. Restore appearance, quality, and condition of surface or finish to match adjacent work and eliminate evidence of restoration to the greatest extent possible.

**3.12 DISPOSAL OF EXCESS AND WASTE MATERIAL**

- A. Removal to Designated Areas on Owner's Property: Transport acceptable excess excavated material to designated soil storage areas on Owner's property. Stockpile soil or spread as directed by the Engineer.
- B. Removal from Owner's Property: Remove waste materials, including unacceptable excavated material, trash, and debris, and dispose of it off Owner's property.

**[END OF SECTION]**

## **SECTION 02151**

### **TRENCHING, BEDDING, AND BACKFILL FOR PIPE**

#### **1. GENERAL**

##### **1.1 DESCRIPTION**

- A. Work included: The Contractor shall furnish all labor, equipment, and incidentals necessary to perform all excavation, backfill, fill, grading and slope protection required completing the piping work shown on the Drawings and specified herein. The work shall include, but not necessarily be limited to: manholes, vaults, duct conduit, pipe, roadways and paving; all backfilling, fill and required borrow; grading; disposal of surplus and unsuitable materials; and all related work such as sheeting, bracing, and water handling.
- B. Related Work:
1. Documents affecting work of this Section include but are not necessarily limited to Sections in Division 1 of these Specifications.
  2. Section 02150: Shoring and Bracing
  3. Section 02201: Earthwork for Utility Structures
  4. Section 02576: Paving and Resurfacing

##### **1.2 TRENCH PROTECTION**

- A. A Contractor shall construct and maintain sheeting and bracing as required to support the sides of excavations, to prevent any movement which could in any way diminish the width of the excavation below that necessary for proper construction, and to protect adjacent structures, existing piping and/or foundation material from disturbance, undermining, or other damage. Care shall be taken to prevent voids outside of the sheeting, but if voids are formed, they shall be immediately filled and rammed.
- B. For pipe trench sheeting, no sheeting is to be withdrawn if driven below mid-diameter of any pipe, and no wood sheeting shall be cut off at a level lower than 1 foot above the top of any pipe unless otherwise directed by the Engineer. If during the progress of the work the Engineer decides that additional wood sheeting should be left in place, he may direct the Contractor in writing. If steel sheeting is used for trench sheeting, removal shall be as specified above unless written approval is given by the Engineer for an alternate method of removal.

- C. All sheeting and bracing not left in place shall be carefully removed in such a manner as not to endanger the construction or other structures, utilities, existing piping, or property. All voids left or caused by withdrawal of sheeting shall be immediately refilled with sand by ramming with tools especially adapted to that purpose by watering or otherwise as may be directed.
- D. The right of the Engineer to order sheeting and bracing left in place shall not be construed as creating any obligation on his part to issue such orders, and his failure to exercise his right to do so shall not relieve the Contractor from liability for damages to persons or property occurring from or upon the work occasioned by negligence or otherwise, growing out of a failure on the part of the Contractor to leave in place sufficient sheeting and bracing to prevent any caving or moving of the ground.

### **1.3 JOB CONDITIONS**

- A. The Contractor shall examine the site and review the available test borings or undertake his own soil borings prior to submitting his bid, taking into consideration all conditions that may affect his work. The Owner and Engineer will not assume responsibility for variations of sub-soil quality or conditions at locations other than places shown and at the time the investigations was made. Boring log data and soil samples are available for examination after signing a release at the office of the Engineer.
- B. Existing Utilities: Locate existing underground utilities in the areas of work. If utilities are to remain in place, provide adequate means of protection during earthwork operations.
  - 1. Should uncharted, or incorrectly charted, piping, or other utilities be encountered during excavation, consult the Engineer and the Owner for such piping or utility immediately for directions.
  - 2. Cooperate with Owner and utility companies in keeping respective services and facilities in operation. Repair damaged utilities to satisfaction of utility owner.
- C. Protection of Persons and Property: Barricade open excavations occurring as part of this work and post with warning lights. Operate warning lights as recommended by authorities having jurisdiction.
  - 1. Protect structures, utilities, sidewalks, pavements, and other facilities from damage caused by settlement, lateral movement, undermining, washout and other hazards created by earthwork operations.

**1.4**            **SUBMITTALS**

- A.     The Contractor shall furnish the Engineer, for approval, a representative sample of fill material obtained from onsite sources weighing approximately 50 pounds, at least ten calendar days prior to the date of anticipated use of such material.
  
- B.     For each material obtained from other than onsite sources, the Contractor shall notify the Engineer of the source of the material and shall furnish the Engineer, for approval, a representative sample weighing approximately 50 pounds, at least ten calendar days prior to the date of anticipated use of such material.

**2.**            **PRODUCTS**

**2.1**           **MATERIALS**

- A.     General:
  - 1.     Materials for use as base, fill and backfill shall be as described below:
    - a.     Satisfactory soil materials are defined as those complying with American Association of State Highway and Transportation Officials (AASHTO) M-145, soil classification Groups A-1, A-2-4, A-2-5, and A-3.
  
    - b.     Unsatisfactory soil materials are those defined in ASSHTO M-145 soil classification Groups A-2-6, A-2-7, A-6, and A-7 along with peat and other highly organic soils.
  
- B.     Structural Fill:
  - 1.     Structural fill material shall be satisfactory soil material consisting of a minimum of 60 percent clean medium to fine grain sized quartz sand, free of organic, deleterious and/or compressible material. Rock in excess of 2-1/2 inches in diameter shall not be used in the fill material. Structural fill shall not contain hardpan, stones, rocks, cobbles, or other similar materials.
  
- C.     Common Fill:
  - 1.     Common fill material shall be satisfactory soil material containing no more than 20 percent by weight finer than No. 200 mesh sieve. It shall be free from organic matter, much, marl, and rock exceeding 2-1/2 inches in diameter. Common fill shall not contain broken concrete, masonry, rubble or other similar materials.

2. Material falling within the above specification, encountered during the excavation, may be stored in segregated stockpile for reuse. All material which, in the opinion of the Engineer, is not suitable for reuse shall be spoiled as specified herein for disposal of unsuitable materials.

D. Rock Bedding:

1. Rock bedding shall be 3/8" to 3/4" washed and graded lime rock. This rock shall be graded so that 99% will pass a 3/4" screen and 80% will be retained on a No. 8 screen.

**3. EXECUTION**

**3.1 GENERAL**

- A. All excavation, backfill and grading necessary to complete the work shall be made by the Contractor and the cost thereof shall be included in the contract price.
- B. Material shall be furnished as required from offsite sources and hauled to the site.
- C. The Contractor shall take all the necessary precautions to maintain the work area in a safe and workable condition.
- D. The Contractor shall protect his work at all times by flagging, marking, lighting and barricading. It shall also be the Contractor's responsibility to preserve and protect all above and underground structures, pipelines, conduits, cables, drains or utilities which are existing at the time he encounters them. Failure of the Drawings to show the existence of these obstructions shall not relieve the Contractor from this responsibility. The cost of repair of any damage which occurs to these obstructions during or as a result of construction shall be borne by the Contractor without additional cost to the Owner.

**3.2 TRENCH EXCAVATION**

- A. Excavation for all trenches required for the installation of pipes and electrical ducts shall be made to the depths indicated on the Drawings. Excavate trench to provide a minimum of 20-inch clear cover over the pipe bell unless otherwise noted on the Drawings. Excavate in such manner and to such widths as will give suitable room for laying the pipe or installing the ducts within the trenches, for bracing and supporting and for pumping and drainage facilities. The trench width at the top of the pipe shall not exceed the allowable as determined by the depth of cut and indicated on the Drawings.
- B. Rock shall be removed to a minimum 8-inches clearance around the bottom and sides of all the pipe or ducts being laid.

- C. Where pipe or ducts are to be laid in lime rock bedding or encased in concrete the trench may be excavated by machinery to or just below the designated subgrade provided that the material remaining in the bottom of the trench is no more than slightly disturbed.
- D. Where the pipes or ducts are to be laid directly on the trench bottom, the lower parts of the trenches shall not be excavated to the trench bottom by machinery. The last of the material being excavated shall be done manually in such a manner that will give a flat bottom true to grade so that pipe or duct can be evenly and uniformly supported along its entire length on undisturbed material or bedding rock. Bell holes shall be made as required manually so that there is no bearing surface on the bells and pipes are supported along the barrel only.

### **3.3 PIPE INTERFERENCES AND ENCASEMENT**

- A. The Contractor shall abide by the following schedule of criteria concerning interferences with other facilities.
  - 1. In no case shall there be less than 0.3 feet between any two pipelines or between pipe lines and structures.
  - 2. Class I Concrete Encasement: Wherever there is more than 0.3 feet but less than 1.5 feet clearance between sewers, sewer house laterals, force mains and water mains or water services, then a concrete encasement shall be provided in accordance with the typical detail as shown on the Drawings.
  - 3. Class II Concrete Encasement: Wherever there is more than 0.3 feet but less than 1.0 feet clearance between any two pipelines, or between pipe lines and structures, then a concrete encasement shall be provided in accordance with the typical detail as shown on the Drawings.
- B. The Engineer shall have full authority to direct the placement of the various pipes and structures in order to facilitate construction, expedite completion and to avoid conflicts.

### **3.4 BACKFILLING**

- A. Backfilling over pipes shall begin as soon as practicable after the pipe has been laid, jointed, and inspected and the trench filled with suitable compacted material to the mid-diameter of the pipe.
- B. Backfilling over ducts shall begin not less than three days after placing concrete encasement.
- C. All backfilling shall be prosecuted expeditiously and as detailed on the Drawings.



- D. Any space remaining between the pipe and sides of the trench shall be packed full by hand shovel with selected earth, free from stones having a diameter greater than 2-inches and thoroughly compacted with a tamper as fast as placed, up to a level of one foot above the top of the pipe. Compact to 95% maximum density in layers not to exceed 4 inches up to the centerline of the pipe from the trench bottom and in layers not to exceed 4 inches up to the centerline of the pipe from the trench bottom and in layers not to exceed 6 inches from the pipe centerline to 12 inches above the pipe.
- E. The filling shall be carried up evenly on both sides with at least one many tamping for each man shoveling material into the trench.
- F. The remainder of the trench above the compacted Backfill, as just described above, shall be filled and thoroughly compacted with common fill by rolling, ramming, of puddling, as the Engineer may direct. Compact common fill in 6-inch layers to 98% maximum density.
- G. The bedding rock in much areas shall consists of at least 6 inches of washed and graded lime rock placed in the trench to the proposed elevation of the centerline of the pipe prior to any pipe lying. This bedding shall not be used under any circumstances as a drain for ground water. The Contractor shall take all precautions necessary to maintain the bedding in a compacted state and to prevent washing, erosion or loosening of this bed.
- H. In location where pipes pass through building walls, the Contractor shall take the following precautions to consolidate the refill up to an elevation of at least 1 foot above the bottom of the pipes:
  - 1. Place structural fill in such areas for a distance of not less than 3 feet on either side of the center line of the pipe in level layers not exceeding 6-inches in depth.
  - 2. Wet each layer to the extent directed and thoroughly compact each layer with a power tamper to the satisfaction of the Engineer.

### 3.5

#### **GRADING**

- A. Grading shall be performed at such places as are indicated on the Drawings, to the lines, grades, and elevations shown or as directed by the Engineer and shall be made in such a manner that the requirements for formation of embankments can be followed. All unacceptable material encountered, of whatever nature within the limits indicated, shall be removed and disposed of as directed. During the process of excavation, the grade shall be maintained in such condition that it will be well drained at all times. When directed, temporary drains and drainage ditches shall be installed to intercept or divert surface water which may affect the prosecution or condition of the work.

- B. If at the time of excavation, it is not possible to place any material in its proper section of the permanent structure, it shall be stockpiled in approved areas for later use. No extras will be considered for stockpiling or double handling of excavating material.
- C. The right is reserved to make minute adjustments or revisions in lines or grades if found necessary as the work progresses, due to discrepancies on the Drawings or in order to obtain satisfactory construction.
- D. Stones or rock fragments larger than 2-1/2 inches in their greatest dimensions will not be permitted in the top 6 inches of the subgrade line of all dikes, fills or embankments.
- E. All fill slopes shall be uniformly dressed to the slope, cross-section and alignment shown on the Drawings, or as directed by the Engineer.
- F. In cuts, all loose or protruding rocks on the back slopes shall be barred loose or otherwise removed to line or finished grade of slope. All cut and fill slopes shall be uniformly dressed to the slope, cross-section and alignment shown on the Drawings or as directed by the Engineers.
- G. No grading is to be done in areas where there are existing pipe lines that may be uncovered or damaged until such lines which must be maintained are relocated, or where lines are to be abandoned, all required valves are closed and drains plugged at manholes.
- H. The Contractor shall replace all pavement cut or otherwise damaged during the progress of the work as specified elsewhere herein.

### **3.6 DISPOSAL OF UNSUITABLE AND SUPPLY MATERIAL**

- A. All surplus and/or unsuitable excavated material shall be disposed of in one of the following ways as directed by the Engineer.
  - 1. Transport to soil storage area on Owner's property and stockpile or spread as directed by the Engineer.
  - 2. Transport from Owner's property and legally dispose of. Any permit required for the hauling and disposing of this material beyond Owner's property shall be obtained prior to commencing hauling operations.
- B. Suitable excavated material may be used for fill if it meets the specifications for common fill and is approved by the Engineer. Excavated material so approved may be neatly stockpiled at the site where designated by the Engineer provided there is an area available where it will not interfere with the operation of the facility nor inconvenience traffic or adjoining property owners.

**[END OF SECTION]**

## **SECTION 02201**

### **EXCAVATION BELOW NORMAL GRADE AND GRAVEL REFILL**

#### **1. GENERAL**

##### **1.1 DESCRIPTION**

- A. If in the opinion of the Engineer, the material at or below the normal grade of the bottom of the trench (0.7-feet below the invert of the pipe) is unsuitable for foundation, it shall be removed to the depth directed by the Engineer and replaced by drain rock, at no additional cost to the Owner.
- B. Related Work:
  - 1. Documents affecting work of this section include but are not necessarily limited to Sections in Division 1 of these Specifications.
  - 2. Section 02221: Trenching, Bedding and Backfill for Pipe.

#### **2. PRODUCTS**

##### **2.1 MATERIALS**

- A. Drain rock shall be 3/8-inch to 3/4-inch washed and graded lime rock. The rock shall be graded so that 99% will pass a 3/4-inch screen and 80% will be retained on a No. 8 screen.

#### **3. EXECUTION**

##### **3.1 EXCAVATION AND DRAINAGE**

- A. Whatever the nature of unstable material encountered or the groundwater conditions, trench drainage shall be complete and effective.
- B. If the Contractor excavates below grade through error or for his own convenience, or through failure to properly dewater the trench, or disturbs the subgrade before dewatering is sufficiently complete, he may be directed by the Engineer to excavate below grade as set forth in the preceding paragraph, in which case the work of excavating below grade and finishing and placing the refill shall be performed at the Contractor's own expense.

## 3.2

### **REFILL**

- A. If the material at the level of trench bottom consists of fine sand, sand and silt or soft earth which may work into the drain rock notwithstanding effective drainage, the subgrade material shall be removed to the extent directed and the excavation refilled with coarse sand, or a mixture graded from coarse sand to fine pea stone, to form a filter layer preserving the voids in the gravel bed of the pipe. The composition and gradation of gravel shall be approved by the Engineer prior to placement. Gravel shall be placed in 6-inch layers thoroughly compacted. If directed by the Engineer, drain rock shall be used for refill of excavation below grade.

**[END OF SECTION]**

**SECTION 02221**

**PAVING AND RESURFACING**

**1. GENERAL**

**1.1 DESCRIPTION**

- A. The work of this section includes, but is not limited to:
  - 1. Temporary Paving
  - 2. Permanent Paving
- B. Related Work:
  - 1. Documents affecting work of this Section include but are not necessarily limited to Sections in Division 1 of these Specifications.

**1.2 QUALITY ASSURANCE**

- A. Referenced Standards:
  - 1. Florida Department of Transportation Standard Specifications for Road and Bridge Construction Latest Edition, including Supplements.

**1.3 SUBMITTALS**

- A. Certificates:
  - 1. Submit certification from bituminous and aggregate suppliers attesting that materials conform to the Controlling Agency Specifications.

**1.4 JOB CONDITIONS**

- A. Control of Traffic:
  - 1. Take measures to control traffic during repaving operations. Do not allow traffic on repaved areas until authorized by the Engineer.

2. Employ traffic control measures necessary to maintain and to protect traffic, to protect the work in progress, to protect adjacent property from excess dust resulting from the construction area and to maintain traffic through, around, or adjacent to the construction area. The work shall include the furnishing and maintaining of all traffic control devices, flaggers, construction of temporary structures when required, labor, equipment, and materials to keep the traveled road smooth and the furnishing and application of dust palliatives.
- B. Restore existing paving outside the limits of the work that is damaged by the contractor's operations to its original condition at the expense of the Contractor.

## 2. **PRODUCTS**

### 2.1 **FLEXIBLE PAVEMENT MATERIALS AND AGGREGATES**

- A. Bituminous Treatments, surface courses and concrete pavements shall conform to Florida Department of Transportation Standard Specifications for Road and Bridge Construction, Latest Edition. Thickness shall be a minimum of 1 inch of Type S-3 Asphaltic Concrete Pavement, unless otherwise noted on plans.
- B. Refer to Section 300, Florida Department of Transportation Specifications, Latest Edition. All bituminous materials and aggregates used in paving and resurfacing are designated in these specifications and shall conform to the applicable portions of the State specifications.

## 3. **EXECUTION**

### 3.1 **TEMPORARY PAVING**

- A. Place temporary paving immediately upon completion of trench back-filling. Unpaved trenches shall not remain unpaved longer than one working day after back-filling.
- B. Shape and compact subgrade material, then place and compact crushed stone base course to the required thickness.
- C. Place temporary paving material. Compact to required minimum thickness with trench roller having minimum 300 pounds per inch-width of compaction roll.
- D. Continuously maintain temporary paving to the satisfaction of the Engineer and the state and local road departments.
- E. Remove and dispose of temporary pavement prior to the placement of permanent pavement.

### **3.2**      **PERMANENT PAVING**

- A.    Excavate to the lines and grades on plans to receive permanent pavement, including the disposal of surplus excavated material. Remove all muck and organic materials.
- B.    Remove temporary paving material. Construct permanent base and surface courses to the required compacted thickness shown on the plans in accordance with Florida Department of Transportation Standards for Road and Bridge Construction.
- C.    Trim existing paving to remove damaged areas. Cut straight joint lines and right angle offsets.
- D.    Maintain permanent paving to the satisfaction of the Engineer and the local and state road departments throughout the contract maintenance period.

### **3.3**      **BITUMINOUS OVERLAY**

- A.    Where indicated on the drawings, standard details, or directed by the engineer, place a bituminous overlay.
- B.    Construct in accordance with Florida Department of Transportation Standards for Road and Bridge Construction.

### **3.4**      **DRIVEWAYS**

- A.    Trim concrete and bituminous driveway surfaces to remove damaged areas. Sawcut straight joint lines parallel to the centerline of the trench. Cut offsets at right angles to the trench centerline.
- B.    Restore existing concrete driveways trenched through with a 6" layer of concrete reinforced with 6 x 6 10/10 wire mesh.
- C.    Restore existing asphalt driveways trenched through in kind or with minimum 1" layer wearing course over 12" layer of D.O.T. road rock.
- D.    Restore earth driveways with a 6" layer of 3/4" stone backfill. Florida DOT 901-6 No. 14.
- E.    Restore brick driveways with like brick placed on a 4" thick wet sand bed. Place bricks in like pattern and spacing.

3.5

**CONCRETE CURB AND SIDEWALK REPAIRS**

- A. Replace curbs and sidewalks damaged by construction to match existing.
- B. Reconstruct curbs and sidewalks to the first expansion joint on either side of the damaged portion. Install preformed expansion joint material.
- C. Sidewalks shall be new construction for the full width of the existing slabs.
- D. Reconstruct sidewalks to 4-inch thickness of Class I concrete placed on a 4-inch base of compacted material.
- E. Sidewalks and curbs materials and construction methods shall be in accordance with Sections 522 and 520 of the referenced Florida Department of Transportation Specifications.

**[END OF SECTION]**



## **SECTION 02223**

### **THERMOPLASTIC TRAFFIC STRIPES AND MARKINGS**

#### **711-1 DESCRIPTION**

Apply new thermoplastic traffic stripes and markings, or refurbish existing thermoplastic traffic stripes and markings, in accordance with the Contract Documents.

#### **711-2 MATERIALS**

711-2.1 **Thermoplastic:** Use only thermoplastic materials listed on the QPL. The Engineer will take random samples of all material in accordance with the Departments Sampling, Testing and Reporting Guide Schedule.

711-2.1.1 **Initial or Recapped Stripes and Markings:** Use materials meeting the requirements of 971-1 and 971-5.

711-2.1.2 **Refurbishing Existing Stripes and Markings:** Use materials meeting the requirements of 971-1 and 971-5.

711-2.1.3 **Preformed Stripes and Marking:** Use materials meeting the requirements of 971-1 and 971-6.

711-2.2 **Glass Spheres:** Use only glass spheres listed on the QPL, meeting the requirements of 971-1 and 971-2. The Engineer will take random samples of all glass spheres in accordance with ASH-1 D 1214 and the Department's Sampling, Testing and Reporting Guide schedule.

711-2.3 Sand: Use materials meeting the requirements of 971-5.4.

#### **711-3 EQUIPMENT**

Use equipment capable of providing continuous uniform heating of striping materials to temperatures exceeding 390°F, mixing and agitation of the material reservoir to provide a homogeneous mixture without segregation. Use equipment that will maintain the striping material in a plastic state, in all mixing and conveying parts, including the line dispensing device until applied. Use equipment which can produce varying width traffic stripes and which meets the following requirements:

- A. Capable of traveling at a uniform, predetermined rate of speed, both uphill and downhill, in order to produce a uniform application of striping material and capable of following straight lines and making normal curves in a true arc.

- B. Is capable of applying glass spheres to the surface of the completed stripe by a double drop application for initial traffic striping and marking and a single drop application for recapping and refurbishing. The bead dispenser for the first bead drop shall be attached to the striping machine in such a manner that the beads are dispensed closely behind with the thermoplastic material. The second bead dispenser bead shall be attached to the striping machine in such a manner than the beads are dispensed immediately after the first bead drop application. Glass sphere dispensers shall be equipped with an automatic cut-off control that is synchronized with the cut-off of the thermoplastic material and applies the glass spheres in a manner such that the spheres appear uniform on the entire traffic stripes and markings surface with, 50 to 60% embedment.
- C. Equipped with a special kettle for uniformly heating and melting the striping material. The kettle must be equipped with an automatic temperature control device and material thermometer for positive temperature control and to prevent overheating or scorching of the thermoplastic material.
- D. Meet the requirements of the National Fire Protection Association, state, and local authorities.

**711-4            APPLICATION**

711-4.1            **General:** Remove existing pavement markings such that scars or traces of removed markings will not conflict with new stripes and markings by a method approved by the Engineer. Cost for removing conflicting pavement markings during maintenance of traffic operations to be included in Maintenance of Traffic, Lump Sum.

Before applying traffic stripes and markings, remove any material by a method approved by the Engineer that would adversely affect the bond to the traffic stripes. Before applying traffic stripes to any port land cement concrete surface, apply a primer, sealer or surface preparation adhesive of the type recommended by the manufacturer. Offset longitudinal lines at least 2 inches from any longitudinal joints of port land cement concrete pavement.

Apply traffic stripes or markings only to dry surfaces, and when the ambient air and surface temperature is at least 60°F and rising for asphalt surfaces and 60°F and rising for concrete surfaces.

Apply striping to the same tolerances in dimensions and in alignment specified in 710-5. When applying traffic stripes and markings over existing markings, ensure that no more than 2 inches on either end and not more than 1 Inch on either side of the existing line is visible.

Apply thermoplastic material to the pavement either by spray, extrusion or other means approved by the Engineer.

Conduct field tests in accordance with FM 5-541. Take test readings representative of the striping performance. Remove and replace traffic stripes and markings not meeting the requirements of this Section at no additional cost to the Department.

Apply all final pavement markings prior to opening the road to traffic.

711-4.1.1 **Preformed Thermoplastic:** Apply markings only to dry surfaces and when ambient air temperature is at least 32°F. Prior to installation, follow the manufacturer's recommendations for pre-heating.

711-4.2 **Thickness**

711-4.2.1 **Initial or Recapped Stripes and Markings:** Apply or recap traffic stripes or markings such that all lane lines, center lines, transverse markings and traffic stripes and markings within traffic wearing areas, will have a thickness of 0.10 to 0.15 inch when measured above the pavement surface.

Also, all gore, island, and diagonal stripe markings, bike lane symbols and messages, wherever located, will have a thickness of 0.09 to 0.12 inch when measured above the pavement surface. Measure, record and certify on Department approved form and submit to the Engineer, the thickness of white and yellow pavement markings in accordance with FM 5-541.

711-4.2.2 **Refurbishing Existing Traffic Stripes and Marking:** Apply a minimum of 0.06 inch of thermoplastic material. Ensure that the combination of the existing stripe and the overlay after application of glass spheres does not exceed the maximum thickness of 0.150 inch for all inches.

711-4.3 **Retro reflectivity:** Apply white and yellow traffic stripes and markings that will attain an initial retro reflectivity of not less than 450 mcd/lx•m<sup>2</sup> and not less than 350 mcd/lx•m<sup>2</sup>, respectively for all longitudinal lines. All transverse lines, messages and arrows will attain an initial retro reflectivity of not less than 300 mcd/lx · m<sup>2</sup> and 250 mcd/lx•m<sup>2</sup> for white and yellow respectively. All pedestrian crosswalks, bike lane symbols or messages in proposed bike lane shall attain an initial retro reflectivity of not less than 275 mcd/lx•m<sup>2</sup>.

Measure, record and certify on Department approved form and submit to the Engineer, the retro reflectivity of white and yellow pavement markings in accordance with FM 5-541.

711-4.4 Glass Spheres:

711-4.4.1 **Longitudinal lanes:** For initial traffic striping and marking, apply the first drop of Type 4 or larger glass spheres immediately followed by the second drop of Type I glass spheres.

For refurbishing, apply a single drop of Type 3 glass spheres, apply reflective glass spheres to all markings at the rates determined by the manufacturer's recommendations.

711-4.4.2 **Transverse Stripes and Markings:** Apply a single drop of Type I glass spheres. Apply reflective glass spheres to all markings at the rates determined by the manufacturer's recommendations.

Apply a mixture consisting of 50% glass spheres and 50% sharp silica sand to all thermoplastic pedestrian crosswalk lines and bike lane symbols at the rates determined by the manufacturer's recommendations.

711-4.4.3 **Preformed Markings:** These markings m-e factory supplied with glass spheres and skid resistant material. No additional glass spheres or skid resistant material should be applied during installation.

**711-5 CONTRACTOR'S RESPONSIBILITY FOR NOTIFICATION**

Notify the Engineer prior to the placement of the thermoplastic materials. Furnish the Engineer with the manufacturer's name and batch numbers of the thermoplastic materials and glass spheres to be used. Ensure that the approved batch numbers appear on the thermoplastic materials and glass spheres package.

**711-6 PROTECTION OF NEWLY APPLIED TRAFFIC STRIPES AND MARKINGS**

Do not allow traffic onto or permit vehicles to cross newly applied pavement markings until they are sufficiently dry. Remove and replace any portion of the pavement markings damaged by passing traffic or from any other cause, at no additional cost to the Department.

**711-7 OBSERVATION PERIOD**

Longitudinal pavement markings are subject to a 180-day observation period under normal traffic. The observation period shall begin with the satisfactory completion and acceptance of the work.

The longitudinal pavement markings shall show no signs of failure due to blistering, excessive cracking, chipping, discoloration, and poor adhesion to the pavement, loss of reflectivity or vehicular damage. The retro reflectivity shall meet the initial requirements of 711-4.3. The Department reserves the right to check the color and retro reflectivity any time prior to the end of the observation period.

Replace at no additional expense to the Department, any longitudinal pavement markings that do not perform satisfactorily under traffic during the 180-day observation period.

## **711-8            CORRECTIONS FOR DEFICIENCIES**

Recapping applies 10 conditions where additional striping material is applied 10 new or refurbished traffic stripes or markings to correct a deficiency. Recap a 1.0-mile section centered on the deficiency with additional striping material or by complete removal and reapplication at no additional cost to the Department.

If recapping will result in a thickness exceeding the maximum allowed, the traffic stripes or markings will be removed and reapplied.

## **7 11-9            SUBMITTALS**

711-9.1            **Submittal Instructions:** Prepare eleven (11) certification of quantities, using the Department's current approved form, for each project in the contract. Submit the certification of quantities and daily worksheets to the Engineer. The Department will not pay for any disputed items until the Engineer approves the certification of quantities.

711-9.2            **Contractor's Certification of Quantities:** Request payment by submitting a certification of quantities no later than 12:00 noon, Monday after the estimate cut-off date or as directed by the Engineer, based on the amount of work done or completed. Ensure the certification of quantities consists of the following:

- A. Contract Number, FPID Number, Certification Number, Certification Date and the period that the certification represents.
- B. The basis for arriving to the amount of the progress certification, less payments previously made and less any amount previously retained or withheld. The basis will include a detailed breakdown provided on the certification of items of payment.

**711-10            METHOD OF MEASUREMENT**

The quantities to be paid for under this Section will be as follows:

- A. The length in net miles, of 6-inch solid traffic stripe, authorized and acceptably applied.
- B. The total traversed distance in gross miles of 10-30 or 3-9 skip line. The actual applied line is 25% of the traverse distance, for a 1:3 ratio. This equates to 1,320 feet of marking per mile of single line.
- C. The net length, in feet of all other types of lines and stripes, authorized and acceptably applied.
- D. The area, in square feet, of removal of existing, pavement markings, acceptably removed.
- E. The number of pavement messages, symbols, and directional arrows, authorized and acceptably applied.

**7 11-11            BASIS OF PAYMENT**

Prices and payments will be full compensation for all work specified in this Section, including, all cleaning and preparing of surfaces, furnishing of all materials, application, curing and protection of all items, protection of traffic. Furnishing of all tools, machines, and equipment, and not incidentals necessary to complete the work Final payment will be withheld until all deficiencies are corrected.

Payment will be made under:

- Item No. 711- Thermoplastic
  - Traffic Stripes, Solid - per net mile
  - Traffic Stripes, Solid - per foot

**[END OF SECTION]**

## **SECTION 02576**

### **CAST-IN-PLACE CONCRETE SIDEWALKS, CURBS, CURBS & GUTTERS, CROSSWALKS AND MISCELLANEOUS CONCRETE**

#### **1. GENERAL**

##### **1.1 DESCRIPTION**

- A. Work included: Provide cast-in-place concrete, sidewalks, curbs, curbs and gutters, crosswalks, and miscellaneous concrete, where shown on the Drawings as specified herein, and as needed for a complete and proper installation.
- B. Related Work:
  - 1. Documents affecting work of this Section include but are not necessarily limited to Sections in Division 1 of these Specifications.

##### **1.2 QUALITY ASSURANCE**

- A. Use adequate numbers of skilled workmen who are thoroughly trained and experienced in the necessary crafts and who are completely familiar with the specified requirements and the methods needed for proper performance of the work of this Section. The concrete curb and sidewalk contractor/sub-contractor shall have a minimum of 5 years of experience in the construction of urban and decorative sidewalks.
- B. Quality control:
  - 1. See requirements for testing as stated in part 3 of this Section.

##### **1.3 SUBMITTALS**

- A. Comply with pertinent provisions of Section 01340.

##### **1.4 PRODUCT HANDLING**

- A. Comply with pertinent provisions of Section 01640.

## **2. PRODUCTS**

### **2.1 CONCRETE MIXES**

- A. Provide a mix design prepared by the approved testing agency, based on strengths of the approved materials, and meeting the requirements stated on the Drawings, and Specifications.
  - 1. Secure the Engineers approval of each mix design, including new mix designs required to be prepared should there occur a change in materials being used.

### **2.2 CONCRETE QUALITY**

- A. Concrete shall be Class I normal weight and shall attain a 28-day compressive strength of a minimum of 3000 psi.
  - 1. The maximum water-cement ratio shall be 0.65.
  - 2. The minimum cement content for concrete shall be five bags per cubic yard.
  - 3. Concrete shall contain a water reducing admixture capable of increasing workability and reducing the amount of mixing water, conforming to ASTM C494-82, Type A. Other admixtures may be used if approved by the Engineer. Admixtures shall be added to the mix in accordance with the manufacturer's specifications, and at a controlled rate.

### **2.3 COLORING**

- A. Integral Colored Concrete mixture shall be Class I concrete, as described above. Concrete shall be supplied with the color admixture added. Admixture coloring, as specified in drawings, shall be plant mixed and shall be manufactured by the Lambert Corporation or an approved equal.

## **3. EXECUTION**

### **3.1 SURFACE CONDITIONS**

- A. Examine the areas and conditions under which work of this Section will be performed. Correct conditions detrimental to timely and proper completion of the Work. Do not proceed until unsatisfactory conditions are corrected.

### **3.2 SUBGRADE PREPARATION**

- A. All roots, vegetation and other deleterious materials shall be removed from the area of the proposed sidewalk. Roots, when present, shall be removed to a depth of 12". Existing rock shall be removed to at least 1" below proposed subgrade elevation. Fill materials, where required, shall be clean lime rock or mixture of lime rock and sand acceptable to the Engineer. Subgrade shall be compacted to a minimum field density of 95% of the maximum density as determined by AASHTO Method, Designation T180-74, and Method D.



### 3.3

#### **FORMS**

- A. General: Steel forms shall be used for all work except at sidewalk radii where wood forms (1/4" min. thickness) may be used and which shall be bent to a smooth uniform curve. Wood forms shall not be used for Curb or Curb & Gutter work. Forms shall be as follows: (a) externally secured and braced where feasible; (b) substantial and unyielding; (c) of adequate strength to contain the concrete without building between supports and without apparent deviation from the neat lines, contours and shapes shown in the plans. They shall be designed to withstand the additional forces of vibration without apparent deviation from the desired shape or position. Assembled forms shall be mortar tight and, shall be constructed to render a concrete surface of smooth, uniform finish. Provisions shall be made for the removal of forms without injury to concrete surfaces. Blocks and bracing shall be removed from the forms and in no case shall any portion of the forms be left in the concrete.

The Contractor where practical may use asphalt abutting the sidewalk in lieu of form work. The asphalt must be saw cut in such a manner that the edge of the sidewalk where it abuts the asphalt is true to grade and alignment.

The form shall be set plumb, properly aligned, and with their bottom in full and continuous contact with the subgrade. Forms shall be cleaned and lightly oiled before concrete is placed.

- B. Form Alignment, Bracing and These: Forms shall be constructed in such manner that they may be adequately secured for alignment, shape, and grade. Bracing systems, ties and anchorages used for this purpose shall be substantial and sufficient to insure against apparent deviation from shape, alignment, and grade. Nails driven into existing concrete shall not be used for this purpose. Bracing systems, ties anchorages shall not be used which will unnecessarily deface or mark or have an injuries or undesirable effect on surfaces which will be a part of the finished surface.
- C. Preparation and Cleaning: The condition of the forms shall meet the following requirements at the time concrete casting is begun: (a) All forms shall be treated with an approved form-release agent before placing concrete. Material which will adhere to or disorder the concrete shall not be used. (b) The forms shall be cleaned of all dirt, sawdust, shavings, and other debris. (c) All inspection and cleanout holes shall be closed and secured.

### 3.4

#### **CONCRETE MIXING**

- A. Job mixed concrete shall not be permitted.
- B. Ready-mixed concrete shall be mixed and delivered in accordance with the requirements of the Standard Specification for Ready-Mixed Concrete, ASTM C94-85.

- C. No concrete shall be re-tempered after it has not taken an initial set nor shall any batch or portion thereof be deposited in forms more than one and one-half hours after the mixing of that particular batch has commenced.
- D. No water shall be added at the job site to concrete delivered by truck as ready for use without the approval of the Engineer, and then, only when slump tests are made and the concrete so delivered is known to be of less than the slump specified.
- E. Concrete consistency:
  - 1. Use the amount of water established by the approved mix design.
    - a. Do not exceed the maximum quantity specified for the grade of concrete.
    - b. Use the minimum amount of water necessary to produce concrete of the workability required by the Engineer.
    - c. Do not supplement the predetermined amount of water with additional water for any reason.
  - 2. Measure concrete consistency by ASTM C143 method.
    - a. As part of the routine testing and inspecting, test twice each day or partial day's run of the mixer.
    - b. Maintain a complete and accurate record of tests.
  - 3. Provide a 3" maximum concrete slump.
- F. Miscellaneous provisions:
  - 1. Provide strengths of concrete as shown on the Drawings.
  - 2. Provide concrete dense and free from honeycomb and other defects.
  - 3. Place and finish members to conform to the shapes and dimensions indicated, with all surfaces true to line, plumb, and level.

### **3.5 CONCRETE REINFORCEMENT**

- A. Provide reinforcement as detailed on Drawings and Specifications.

### 3.6

### CONVEYING AND PLACING CONCRETE

- A. Inspection: No concrete shall be placed until inspected for depth, forming and reinforcement. Proper finishing tools shall be on the jobsite at time of inspection. Failure to obtain required inspection shall be sufficient cause for rejection. Such inspection and approval shall not relieve the contractor of the responsibility of obtaining satisfactory concrete surfaces, free from warping, bulging or other objectionable defects. Special attention shall be paid to the ties and bracing. Where the forms appear to be insufficiently braced or unsatisfactorily built, the progress of the work shall be stopped until the defects have been corrected to the satisfaction of the Engineer.
- B. Preparation:
1. Remove all laitance, oil, and loose particles from concrete and concrete surfaces, and thoroughly clean the forms with water under stiff pressure.
  2. Remove laitance after concrete has hardened partially (not less than two hours nor more than four hours after place in) by brushing with stiff bristles, or by directing a stream of water from a 1/4" nozzle, or by other method approved by the Engineer, to expose the clean top surface of the coarse aggregate.
  3. Where cleaning is not satisfactory to the Engineer sandblast the surface and then wash again.
- C. Method of Depositing
1. Concrete shall be deposited as nearly as practical in its final position to avoid segregation due to handling or flowing. The concrete shall be carried on at such a rate that the concrete is at all times plastic and flows readily. No concrete that has been contaminated by foreign materials shall be deposited on the work.
  2. When concreting is started, it shall be carried on as a continuous operation until the placing of the panel or section is completed. The top surface shall be generally level.
  3. All concrete shall be thoroughly compacted by suitable means during the operation of placing, and shall be thoroughly worked, into corners.
  4. Place concrete only under the degree of inspection described elsewhere in these Specifications, and as required by governmental agencies having jurisdiction.

5. Do not place concrete outside of regular working hours unless required inspection authorities have been notified properly and are present.
6. Concrete shall be pump-mix.
7. Deposit concrete so that the surface is kept level throughout, a minimum being permitted to flow from one position to another, and place as rapidly as practicable after mixing.
8. Do not use in this Work any concrete not placed within 30 minutes after leaving the mixer.

D. Adverse Weather:

1. The Contractor shall assume all risks connected with the placing of concrete during adverse weather conditions, and permission given to place concrete under such conditions will in no way relieve the Contractor of the responsibility for satisfactory results. Should concrete placed under such conditions, prove unsatisfactory, it shall be removed, disposed of and replaced at the Contractor's expense.

**3.7 FINISHING**

- A. Exposed work shall have a steel troweled finish after which it shall be lightly broomed to eliminate a slick finish. After forms have been removed from exposed areas, all voids shall be filled and rubbed where necessary using color compound to give the face a finished look. All laitance and slop-over shall be thoroughly removed from any adjacent surfaces before the final finishing process is completed.

**3.8 EDGES AND JOINTS**

- A. Edges of all sidewalks shall be finished with one-quarter inch (1/4") radius joint and edging tools. Edges of curbs shall be to the radius shown on typical section.
- B. Joints in sidewalks shall be spaced uniformly equal to width of sidewalk except where sidewalk exceeds six feet (6') in which case the uniform spacing shall be one-half width with a longitudinal joint at mid-width. All such joints shall be formed with tool having a bit depth of one and one-half inches (1-1/2") as approved by the City and shall have a minimum tooled radius of one-quarter inch (1/4") each side.

At spacing of twenty feet (20') maximum (or nearest multiple of required joint spacing) there shall be an open joint one-quarter inch (1/4"), minimum, wide and full depth of sidewalk which may be formed with removable spline but having edges tooled to a one-quarter inch radius. Expansion joints or saw cutting can only be used where approved in writing.

An open joint shall be provided where new sidewalk abuts existing. A longitudinal joint parallel to curb poured monolithic with the sidewalk shall be tooled to a minimum depth of one-quarter inch and with a one-quarter inch radius each side. Joints in curbs or curbs and gutters shall be at a maximum spacing of ten feet (10') or a minimum spacing of four feet (4') and formed with a one-quarter inch thick steel template of proper contour and with exposed edges tooled to a one-quarter inch radius.

- C. Expansion material must be used between the back of curb (or curb and gutter) and sidewalk, between concrete driveway and sidewalk, between any existing vertical surface (except existing sidewalk) and sidewalk and between root barriers and sidewalk. Expansion joints shall be a maximum of 1/2" thick, and the expansion material shall be cut one-eighth inch (1/8") below the surface at the proposed sidewalk curb or gutter.
- D. When specified on the plans or requested by the Contractor and approved by this department, saw-cutting of sidewalks, curb or gutter shall be done as follows:
  - 1. All joints shall be formed (at wearing surface) with tool having a bit of at least one-half inch (1/2") deep and radius of one-quarter (1/4") each side.
  - 2. Open joints where required shall be saw cut the full depth of sidewalk, curb or gutter.
  - 3. Intermediate joints at spacing required shall be saw cut a minimum depth of one and one-half inch (1-1/2").
  - 4. Saw blades used shall not be less than one-eighth inch (1/8") nor more than one-quarter (1/4") thick and shall not be allowed to deviate from a straight line, but such joints shall be clean cut and uniform in width with tooled edges at surface remaining undamaged.
  - 5. Open joints shall be saw cut within forth-eight (48) hours and intermediate joints with twenty-four (24) hours after finishing.
- E. Concrete sidewalks which are part of driveways and approaches shall have joint spacing to match adjoining sidewalk.

### **3.9 CURING**

- A. Concrete shall be cured by use of a clear compound compatible with the coloring compound and in accordance with manufacturer's recommendations. Submit the proposed material and method for approval prior to use.
- B. Care shall be used in the use of water or plastic membranes as their use may have an adverse effect on the coloring compound and/or finish.

### **3.10**

#### **DEFECTIVE CONCRETE**

- A. The following concrete will be deemed to be defective and shall be removed promptly from the job site.
  - 1. Concrete, which is not formed as indicated, is not true to intended alignment, is not plumb or level where so intended, is not true to intended grades and levels;
  - 2. Has voids or honeycomb that have been cut, resurfaced, or filled, unless with the approval of the Architect;
  - 3. Has sawdust, shavings, wood, or embedded debris;
  - 4. Or does not conform fully to provisions of the Contract Documents.
  
- B. Repairs and replacement
  - 1. Defective concrete may be cut out and repaired with gunite, or other approved methods, when and as directed by the Engineer.
  - 2. Where defective concrete is found after removal of the forms, cut out the defective concrete, if necessary, and make the surfaces match adjacent surfaces.
  - 3. Work uneven surfaces and angles of concrete to a surface matching adjacent concrete surfaces.

### **3.11**

#### **TESTING**

- A. The Engineer shall have the right to order tests on any material entering into concrete or reinforced concrete to determine its suitability for the proposed purpose. To order reasonable tests of the concrete from time to time to determine whether the materials and methods in use are such as to produce concrete of the necessary quality; and to order the test under load of any portion of the structure when conditions have been such as to leave doubt as to the adequacy of the structure to serve the purpose for which it is intended.
  
- B. Tests of materials and of concrete shall be in accordance with the requirements of the American Society for Testing Materials. Test shall be made by a testing laboratory approved by the Engineer. Test reports shall be submitted to the Engineer. The costs of such tests resulting from construction related problems shall be assumed by the Contractor.

- C. Tests on concrete used in construction shall be made by an approved testing laboratory, and reports submitted to the Engineer. The costs of such tests shall be assumed by the Contractor.
1. Not less than three specimens shall be made for each standard test, nor less than one test for each 50 cubic yards of concrete used on the project.
  2. Specimens shall be made and cured in accordance with the Standard Method of Making and Curing Concrete Compression and Flexure Test Specimens in the Field, ASTM C31-84.
  3. Specimens shall be tested in accordance with the Standard Method of Test for Compression Strength of Molded Concrete Cylinders, ASTM C39-84. Reports to the Engineer shall be submitted for each test performed.
  4. Test cylinders taken off truck-mixed concrete shall be taken at the approximate one-quarter point and the three-quarter point of the load.
- D. The age for strength tests of concrete shall be 28 days. Strength tests for an earlier age shall be submitted if the Engineer has approved concrete in the structure to receive its full working loads at such earlier time. Seven-day tests may be used with the approval of the Engineer, provided that the relation between the seven and 28-day strengths of the concrete is established by tests for the materials and proportions used.
- E. To conform to the requirements of these specifications, the average strength of the laboratory cured cylinders representing each class of concrete as well as the average of any five consecutive strength tests representing each class of concrete shall be equal to or greater than the specified strength and not more than one strength test in ten shall have an average value of less than 90 percent of the specified strength.
- F. When there is a question as to the quality of the concrete in the structure, the Engineer shall have the right to require core tests in accordance with the Standard Method of Obtaining and Testing Drilled Cores and Sawed Beams of Concrete, ASTM C42-84a, to order load tests on that portion of the structure where the questionable concrete has been placed, or to require other reasonable tests to evaluate the strength of the structure.

**[END OF SECTION]**

**APPENDIX “A”**  
**SUPPLEMENTAL TECHNICAL SPECIFICATIONS**

**GENERAL SCOPE OF WORK** – Contractor will be required to replace or install any sidewalk amount as ordered by the Public Works department. There will be no minimum parameter.

- A. The work includes removal of grass and other materials to prepare the ground for sidewalk installation. Additional tasks will include installation of Americans with Disabilities Act (ADA) compliant ramps at intersections of Streets and Avenues where indicated by the Town. All form work and site preparation shall be conducted with minimum impact and/or damage to the adjacent properties.
- B. Remove and dispose of existing trees as indicated by the Town. All trees to remain shall be preserved. See Tree Removal and Preservation Specifications. Size of tree will be paid based on proof from the contractor of size. If proof is not provided, the Town will make such determination of size deemed acceptable.
- C. New, five- and six-foot-wide sidewalks shall be constructed per Typical Sidewalk Section Detail and Florida Accessibility Code for Building Construction, latest edition, and Section 522 of the FDOT-SSR&BC, latest edition and other requirement; as required.
- D. ADA compliant ramps shall be installed at intersections of Streets and Avenues within the ROW only, per Typical Handicap Ramp Layout Detail.
- E. Any disturbed swale areas, private property; other public property shall be re-sodded per Sod Specifications and graded properly as per specifications at the Contractor’s expense.
- F. Any damage to the roadway, driveway approaches, driveways, abutting sidewalks, aprons surrounding catch basins, manholes, etc. shall be repaired at no expense to the Town, if determined by the Town to be repairs due to negligence or lack of coordination on the part of the Contractor. Re-paving shall be per Pavement Specifications and Miami-Dade County Public Works Manual.
- G. Drawings added include the following:
  - 1. Typical Drawings
- H. At the discretion and direction of the Town. Surveys will be required at each block where “new” sidewalks are to be installed to establish R.O.W. centerline and topographic data.



## **REPLACEMENT & INSTALLATION OF SIDEWALKS TEMPORARY FACILITIES**

### **SECURITY**

- A. The contractor is responsible for project security. Contractor shall protect and secure the site, materials, and equipment from theft and damage, by whatever means deems effective, at contractor's cost.
- B. Work site(s) must be protected properly in accordance with all Federal, State, County and Municipal laws and ordinances, at the end of each workday and weekends.

### **SPECIAL CONTROLS**

- A. Water Control:
  - 1. Keep excavations dry.
  - 2. Shape excavations, particularly piles of excavated material, so as to divert water from excavations and low spots.
- B. Erosion and Sedimentation Control:
  - 1. Prevent the pollution of land, air and water and control the erosion, washout and surface runoff of earth and stockpiled materials.
  - 2. Fill material shall contain no organic matter other than the normal organic component of topsoil.
  - 3. Immediately upon completion of final grading, stabilize graded areas with temporary or permanent vegetation, mulch, or paving.

### **MAINTENANCE OF TRAFFIC**

- A. Control of vehicles and Persons:
  - 1. Provide trained personnel to assure the orderly flow of vehicular traffic during construction.
  - 2. Contractor shall submit a Maintenance of Traffic Plan (MOT) for review and acceptance by the Town when required.
  - 3. Upon completion of work each day the lanes shall be opened to traffic. Lane closure procedures shall be in accordance to the F.D.O.T. Standards.
  - 4. Ensure that private property driveways are usable upon completion of daily work.
- B. Limit of Operations:
  - 1. Any damage or alterations to areas outside the limit of operations shall be returned to original condition within 24 hours at no cost to the Town.

## **PROJECT IDENTIFICATION**

- A. No signs, or advertisements will be allowed to be displayed on the premises without the approval of the Town's Representative.

## **PROJECT HOUSEKEEPING**

- A. Trash Disposal
  - 1. Keep adjacent streets and site free from accumulations of waste materials and rubbish.
  - 2. Provide central waste area with containers for at least daily removal.
- B. Burning:
  - 1. Do not burn any trash or other material on site.
- C. Material Removal/Additional Soil:
  - 1. Excess material, including demolished material, roots from trees, excess earth and excess building materials are property of the contractor and shall be removed from site daily and legally disposed of.
  - 2. All material excavated or brought to the project for use/reuse shall be piled within the Public Right-of-Way in a location previously approved by the Town.
  - 3. The Contractor shall leave all locations in an acceptable manner once concrete has been poured. Contractor shall coordinate work to ensure that all sites are clean, sodded as required, and acceptable prior to mobilizing to other locations.
  - 4. The Contractor shall replace any sod, concrete and/or asphalt removed, damaged, or displaced during demolition or performance of work at own expense.

## **QUALITY OF LIFE PRESERVATION**

- A. Noise Control
  - 1. Contractor will use discretion whenever engaging in activities that might produce excessive noise and disturb residents in and around work areas.
  - 2. The Town shall have the right to impose reasonable limitations on the Contractor to prevent excessive noise and disturb residents in and around work areas.

B. Access to Property:

1. The Contractor shall at all times maintain meaningful access to a given property for residents of that property.

C. Staging of Work

1. All staging for work by the Contractor within the Town shall be first approved by the Town's department of public works.

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**REPLACEMENT & INSTALLATION OF SIDEWALKS**  
**POURED CONCRETE**  
**SIDEWALKS & HANDICAP RAMPS & CURBS**

**DESCRIPTION**

- A. Provide poured concrete at locations where no sidewalks or ramps exist to be per drawings and specifications.
- B. Provide poured concrete in locations where existing sidewalk must be replaced per drawings and specifications, as directed.
- C. Provide curb cuts where proposed handicap ramps are installed and there is a conflict with existing curbs. Curb cuts shall allow for a three-foot (3') transition up to either side of the handicap ramp. Any and all cuts shall commence and extend at least four feet (4') from both sides of the handicap ramp. All curbs shall be cut and transitioned in an acceptable manner. All surrounding pavement, sod, asphalt shall be restored to the existing elevation at the Contractor's expense.

**QUALITY ASSURANCE**

- A. Testing and Inspection of Installation
  - 1. Concrete shall not be poured, placed or installed until such time as an inspection of all sites has taken place by the Town authorized personnel. Inspections shall be made to verify appropriate compaction of sub-base and to check forms for line and grade.
  - 2. The Town will inspect the installation. If any concrete is found to be installed improperly, the Contractor will be required to remove and replace promptly. Upon notifications from the contractor, the Town will perform a re-inspection. Should additional concrete be found to be unsatisfactorily installed, and additional inspections required, these inspections shall be at the Contractor's cost, at the discretion of the Town.

**PRODUCTS**

- A. Concrete:
  - 1. Forms:  
Steel, wood, or other suitable material of size and strength to resist movement during concrete placement. Conform to ACI301.
  - 2. All Joints:  
Joints must be scribed to help prevent cracking
  - 3. Concrete Mix Design:

Mix concrete in accordance with ASTM C94

Design mix to produce normal-weight concrete consisting of Portland cement, aggregate and water to produce the following properties:

- a. Compressive strength: 3000 psi, minimum at 28 days
- b. Slump range: 4" to 6"
- c. Air content: 5% to 8%

## **EXECUTION**

- A. Inspect surfaces for conditions that will adversely affect the quality of installation.  
Do not proceed with the installation until adverse conditions have been corrected.
- B. Compact sub-base surface immediately before placing concrete.
- C. Replace organic material with clean fill and installed up to 6" lifts and compact to a minimum of 95% compaction. Contractor shall submit type of clean fill for Town's approval prior to construction.
- D. The Town has the right to request compaction test at locations chosen by the Town.
- E. Concrete finishing:
  1. Smooth surface by screeding and floating. Produce a uniform texture.
  2. Work edges of slab to a 1/2" radius. Eliminate tool marks on concrete surface.
  3. Broom finish after excess moisture has disappeared.

## **INSTALLATION**

- A. General: Comply with requirements Florida Accessibility Code for Building Construction, latest edition, and Section 522 of the FDOT-SSR&BC, latest edition and other requirement as required.
- B. All sidewalks and ramps shall be four inches (4") thick except across driveways, driveway approaches, and first five feet (5') of ramps closest to paved roadways where that shall be six inches (6") thick.
- C. Sidewalk elevation shall be two inches (2") above the crown of the road, at the back side of the sidewalk, and the pitch shall be 1/4 inch per foot toward the road. Elevation may be adjusted, based on the existing grade, as approved by the Town.
- D. Contractor shall ensure that where handicap ramps are installed and there is a

- conflict with a curb that the curbing shall be cut back and transitioned for a distance of three feet (3') on either side of the ramps. The cut shall be provided at least one foot (1') behind the transition point. All modifications to the curb shall match existing curbs and shall be flush without exception.
- E. No wire or wire mesh shall be utilized within the public right of way. (R.O.W.).
  - F. Concrete shall not be poured, placed, or installed until such time as an inspection of all sites has taken place as per Section 3.1602 QUALITY ASSURANCE. **IF ANY WORK OR PORTION OF WORK HAS NOT BEEN INSPECTED AS PER SECTION 3.1602, THAT PORTION OF WORK SHALL BE IMMEDIATELY REMOVED AND REPLACED ONCE THE INSPECTION HAS BEEN CONFIRMED AT NO COST TO THE TOWN.**
  - G. Place concrete using methods which prevent segregation of mix. Consolidate concrete along face of forms and adjacent to transverse joints with internal vibrator. Keep vibrator away from joint assemblies, or side forms. Use only square-faced shovels for hand-spreading and consolidation. Consolidate with care to prevent dislocation of re-enforcing, dowel, and joint devices.
  - H. Deposit and spread concrete in a continuous operation between transverse joints, as far as possible.
  - I. Contractor shall replace all damaged or misaligned private walkways and driveways with a transition to the private property at 8 to 1 fill slope transition. All other locations shall have a 4 to 1 fill slope transition. Organic material can be used in areas outside walkways and driveways that require fill slopes. All costs associated with this task must be included in unit price.
  - J. Avoid premature cracking by installing expansions joint where required.
  - K. Utility boxes shall be raised to sidewalk elevations or flush with sidewalk as to prevent trip hazard.
  - L. Install root bio barrier prior to forming and pouring concrete.
  - M. Install root bio barrier at existing trees and new trees. Length of root bio barrier shall be ten feet (10') long centered on the tree by twelve inches (12") deep at one inch to two inch (1"-2") below the top of the sidewalk.
  - N. Concrete shall not be poured, installed, or placed around manholes, cleanouts, or other structures until they are at required elevations and alignment. Contractor shall notify the Town in writing of manholes, cleanouts, or other items that may require relocation prior to pour.
  - O. All sidewalk that the Town has determined to be replaced due to deterioration, cracking, uplifting, improper sloping, misalignments, grade, etc. will be removed and replaced as required by specification.
  - P. Removal of existing sidewalk shall be performed by saw cutting the section of

unacceptable sidewalk (as determined by the Town) at the nearest acceptable five-foot (5') flag. New sidewalk shall be poured in its place as established by specifications.

- Q. All areas where existing sidewalk is to be replaced must be prepared and graded to match adjacent sidewalk flags.
- R. All replacement sidewalk sections shall be installed to match the existing sidewalk elevation.

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**REPLACEMENT & INSTALLATION OF SIDEWALKS**  
**PROTECTION STORM DRAINS**

**PROTECTION**

- A. All storm drain inlets must be protected from sediments entering the storm water conveyance system prior to disturbance to the area.
  
- B. All sediment and erosion control practices must be in accordance with the Florida Department of Environmental Protection Storm Water Sediment and Erosion Control Manual Section 4.08 (Storm Drain Protection Procedures) (Best Management Practices BMPs).

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**REPLACEMENT & INSTALLATION OF SIDEWALKS**  
**TREE REMOVAL & PRESERVATION**

**REMOVALS**

- A. **ONLY** the trees and/or shrubs that are deemed by the Town to interfere with the intent of the contract shall be removed or root pruned as needed. All cost associated with vegetation removal and/or root pruning shall be included with the unit price.
- B. The contractor shall be required to review the site prior to performance of work and ensure no conflicts exist. Any tree in conflict with the expected location of new sidewalk shall be reported to the Town for review.
- C. Remove trees and grind stumps and all surface roots to a minimum of 4" below grade.
- D. Restore the location where tree removals take place with soil and sod at grade.

**PRESERVATION**

The following actions and precautions shall be done to protect any trees that will remain in all of the construction areas during construction. These trees shall be those located near new sidewalk installation.

- A. Root Pruning
  - 1. All existing trees shall be root pruned along the sidewalk prior to sidewalk removal, excavation, and installation.
  - 2. The root cutting shall be clean with no tears with root pruning machine.
  - 3. The cut shall extend from the tree out 4 feet minimum in both directions, or as the field may permit to ensure the protection of the tree.
  - 4. The cut shall be 12 inches below grade.
  - 5. The cut shall be no wider than 3 inches.
- B. Protective Root Bio Barriers
  - 1. Bio Barriers shall be placed no less than 6 feet around each tree or no less than 1 foot from edge of street, sidewalk, or driveway.
  - 2. Bio Barriers shall be a minimum of 4 feet above ground level, constructed of wood, metal or rigid plastic, in the form of a fence. No barrier shall be secured in any way to the tree.
  - 3. Bio Barriers shall be installed prior to construction and remain until the Town authorizes their removal.
  - 4. No excess oil, fill, equipment, building materials or debris shall be placed within the barriers.
  - 5. The existing grade within the bio barrier shall not be changed.

**REPLACEMENT & INSTALLATION OF SIDEWALKS**  
**SOD & INSTALLATION**

**MATERIALS**

- A. Sod shall be St. Augustine 'Floritam', grade A.
- B. Sod shall be weed and insect free.

**INSTALLATION**

Those areas disturbed as a consequence of sidewalk installation and those areas disturbed as a consequence of Contractor mobilization and stock piling shall be restored promptly at **Contractor's expense.**

The Contractor shall not utilize methods of mobilization or execution of work that impacts private/public areas excessively and/or in a manner that is unacceptable to the Town. Contractor shall ensure that all private and/or public areas impacted by the mobilization, stock piling, or lack of coordination as interpreted by the Town are restored at no cost to the Town.

- A. Only damaged areas of swales or private property shall be replaced. Where sidewalks require to be elevated above existing grade, swales shall be graded to a 12 to 1 fill slope with sod.
- B. Sodded areas shall have any compaction relieved, raked smooth and rocks or debris removed.
- C. Areas along the street and sidewalk shall be 2" inches below that surface so installed sod will be level with that surface.
- D. Sod will be laid tightly together and cut to a uniform edge along hard surfaces and around trees or palms. The sod around trees or palms shall be laid encircling to within 18 inches, or up to the berm surrounding newly installed trees or palms.
- E. Sod shall be watered within one hour of installation and shall be maintained moist.

**QUALITY ASSURANCE**

- A. No sub-par sod or broken pieces will be accepted and shall be removed from the site daily.
- B. No yellow sod will be accepted.
- C. Sod shall not be placed together with scraps that do not contain sufficient roots to sustain growth.
- D. Contractor is responsible for his own square foot take-offs to provide 100% sod coverage throughout the scope of the project.
- E. Rejected areas will be removed and replaced immediately, and all sod maintained.

## **REPLACEMENT & INSTALLATION OF SIDEWALKS PAVEMENT**

### **PAVEMENT**

- A. Pavement repairs of driveway approaches and section of driveways affected by installation of sidewalks shall be re-installed with one inch (1”) of asphalt in accordance with the FDOT Manual of Uniform Minimum Standards for Design, Construction & Maintenance for Streets & Highways, latest edition.
- B. Concrete repairs shall be limited to damage which results as part of construction and elevation changes of the new sidewalk.

### **EXECUTION**

- A. Contractor shall repair asphalt/concrete driveway approaches where existing approaches are damaged by construction process. Contractor shall photograph all existing approaches and sidewalks prior to starting construction or risk repairing at his cost.

### **QUALITY ASSURANCE**

- A. Testing and Inspection of Installation
  - 1. The Town will inspect the installation. If any asphalt or concrete is found to not be installed adequately, the Contractor will be required to remove and replace promptly. Upon notifications from the contractor, the Town will perform a re-inspection. Should additional asphalt be found to be unsatisfactorily installed, and additional inspections are required, these inspections shall be at Contactor’s cost, at the discretion of the Town.

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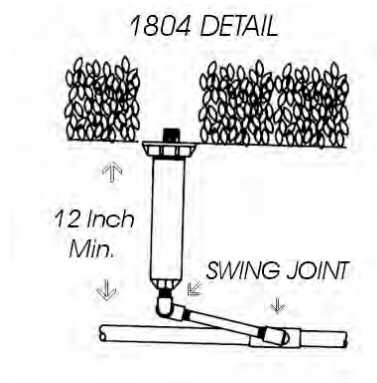
## **REPLACEMENT & INSTALLATION OF SIDEWALKS IRRIGATION**

### **CONDITIONS**

- A. Contractor is responsible for identifying any irrigation piping that residents may have either in the swale or along the existing sidewalk. Any irrigation piping, sprinklers or wiring must be replaced to the residents' satisfaction.
- B. Contractor shall identify and document all locations and notify the Town's authorize personnel of any existing irrigation systems. Documents will be used by the Town's authorize personnel for inspection to verify satisfactory repairs or replacements.

### **INSTALLATION**

- A. Any piping that is removed shall be replaced with equal size PVC; PR160 or PR200. Schedule 40 PVC fittings shall be used.
- B. Sprinklers shall be Rainbird 1804, mounted with swing joints, with the appropriate pattern of nozzle (see detail 1804)



## **REPLACEMENT & INSTALLATION OF SIDEWALKS FENCING**

### **CONDITONS**

- A. Contractor is responsible for identifying any existing fencing that residents may have either in the swale or along the existing sidewalk. Any fencing must be relocated to the Town's satisfaction.
- B. Contractor shall identify and document all locations and notify the Town's authorized personnel of any existing fences. Documents will be used by the Town's authorized personnel for inspection to verify satisfactory re- location.

### **INSTALLATION**

- A. Any fencing that is removed shall be replaced with like material or re-located in compliance with applicable codes and regulations.
- B. Contractor shall adjust heights of existing fence gates when the sidewalk elevation conflicts with their use.

**[END OF SECTION]**

**TOWN OF CUTLER BAY**

**APPENDIX B**

Project Survey (Date of Field Survey: March 31, 2022)

Completed By: HADONNE, CORP.

1985 NW 88<sup>TH</sup> COURT

Suite 101

Doral, Florida 33172

# MAP OF TOPOGRAPHIC SURVEY

## SURVEYOR'S NOTES:

### SECTION 1) DATE OF FIELD SURVEY:

1. The date of completion of the field work of the Boundary Survey was on March 31, 2022.

### SECTION 2) LEGAL DESCRIPTION:

A portion of Bel Aire Drive, a Public Right of Way, 310 feet Northeast to Southwest 203rd Terrace till the end of the roundabout.  
 And-  
 350 feet Northeast to Southwest 202nd Terrace till the end of the roundabout.  
 And-  
 250 feet Northeast to Southwest 201st Terrace till the end of the roundabout.  
 And-  
 260 feet North to Southwest 200th Terrace till the end of the roundabout.  
 And-  
 300 feet North to Cutler Ridge Drive.  
 And-  
 A portion of Southwest 101st Avenue, a Public Right of Way, from its intersection with Cutler Ridge Drive, North 300 feet to Southwest 199th Street till the end of the roundabout.  
 And-  
 North 300 feet to Southwest 198th Street, thence north till Bel Aire Drive.  
 And-  
 A portion of Bahama Drive, a Public Right of Way, from its intersection with Anchor Road and Caribbean Boulevard to Gulfstream Road.  
 And-  
 A portion of Bahia Drive, a Public Right of Way, from its intersection with Bluewater Road to Coral Sea Road.  
 And-  
 A portion of Coral Sea Road, a Public Right of Way, from its intersection with Bahama Drive to Cutler Ridge Drive.  
 And-  
 A portion of Dothan Road, a Public Right of Way, from its intersection with Bahama Drive to Cutler Ridge Drive.  
 And-  
 A portion of Eagle Nest Road, a Public Right of Way, from its intersection with Bahama Drive to Cutler Ridge Drive.  
 And-  
 A portion of Gulfstream Road, a Public Right of Way, from its intersection with Bahama Drive to Cutler Ridge Drive.

### SECTION 3) ACCURACY:

The accuracy obtained by field measurement methods and office calculations of closed geometric figures meets and exceeds the Standards of Practice requirement for this Type of Survey as defined in Rule 5J-17.051, Florida Administrative Code.

Elevations of well identified features as depicted on the Survey Map were measured to an estimated vertical position accuracy of 1/100 of a foot on hard surfaces and 1/10 of a foot on ground surfaces.

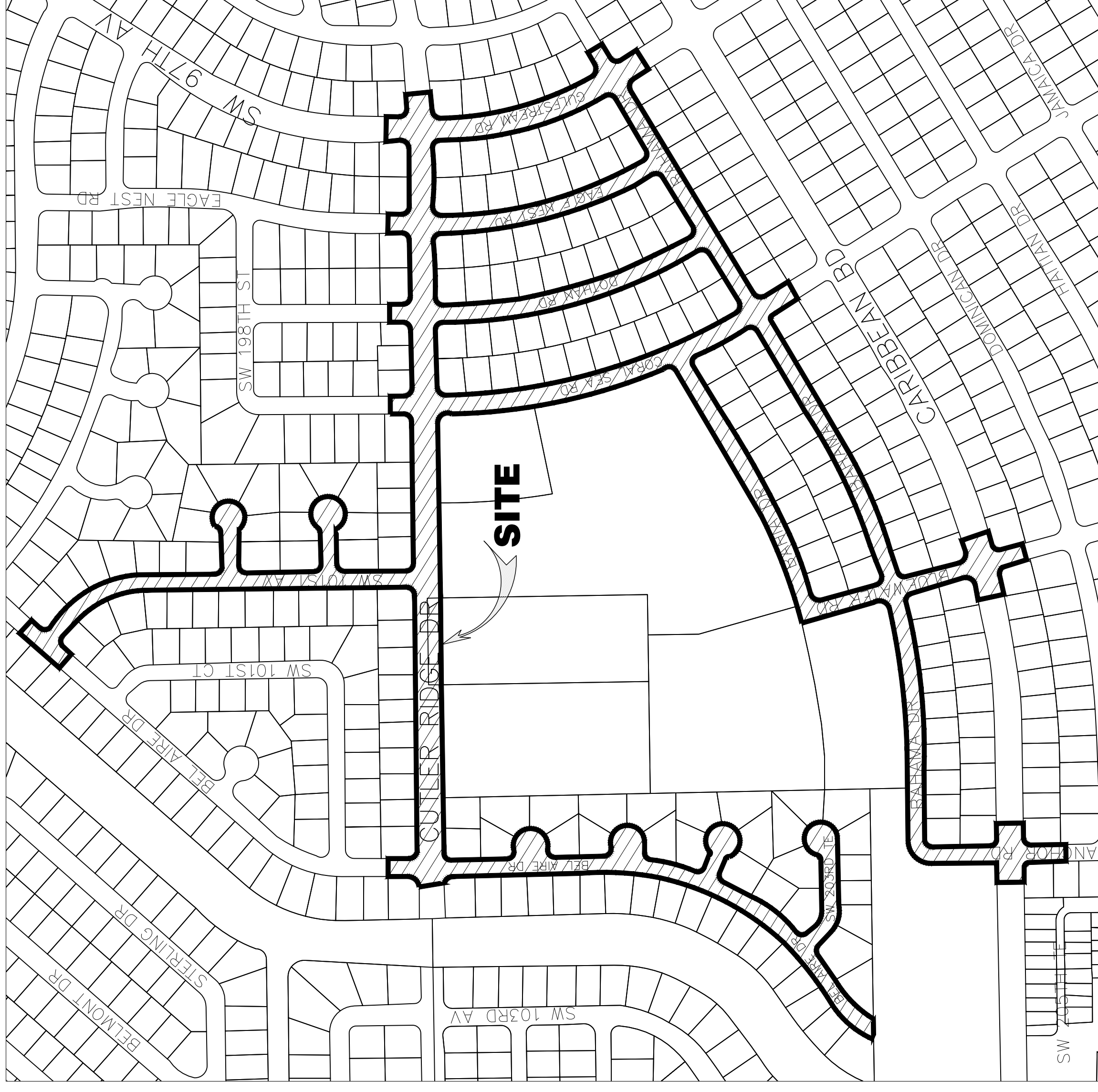
Well identified features as depicted on the Survey Map were measured to an estimated horizontal position accuracy of 1/10 of a foot.

This Map of Survey is intended to be displayed at a scale of (1"=20') or smaller.

### SECTION 4) SOURCES OF DATA:

North arrow direction is based on an assumed Meridian.  
 Plats as recorded in the Public Records of Miami-Dade County, Florida:

PLAT BOOK	PAGE	PLAT NAME
84	18	BEL AIRE SECTION 6
82	84	BEL AIRE SECTION 5
82	61	BEL AIRE SECTION 4
65	98	CUTLER RIDGE MANOR ESTATES
90	94	MODULAR MANOR
65	97	FINE TREE MANOR SECTION 3
60	66	CUTLER RIDGE SECTION 5
59	69	CUTLER RIDGE SECTION 1
57	15	SOUTH CORAL HOMES SECTION 3



LOCATION MAP  
NOT TO SCALE

Bearings as shown hereon are based upon the Center Line of Cutler Ridge Drive with an assumed bearing of N89°49'55"W, said line to be considered a well established and monumented line.

Legal Description was furnished by client.

Elevations as shown hereon are based on the National Geodetic Vertical Datum of 1929, as per Miami-Dade County's Benchmarks.  
 Benchmark Elevation  
 R-745 10.73

**NOTICE:**  
 This Document is not full and complete without all pages.  
 (Total of Thirty (30) pages)

### SECTION 5) LIMITATIONS:

Since no other information were furnished other than that is cited in the Sources of Data, the Client is hereby advised that there may be legal restrictions on the Subject Property that are not shown on the Survey Map that may be found in the Public Records of Miami-Dade County.

The Surveyor makes no representation as to ownership or possession of the Subject Property by any entity or individual that may appear in the public records of this County.

No excavation or determination was made as to how the Subject Property is served by utilities.

No improvements were located, other than those shown. No underground foundations, improvements and/or utilities were located or shown hereon.

### SECTION 6) CLIENT INFORMATION:

This Topographic Survey was prepared at the request of and certified to:

**SRS Engineering Inc.**

### SECTION 7) SURVEYOR'S CERTIFICATE:

I hereby certify that this "Topographic Survey" and the Survey Map resulting therefrom was performed under my direction and is true and correct to the best of my knowledge and belief and further, that said "Topographic Survey" meets the intent of the applicable provisions of the "Standards of Practice for Land Surveying in the State of Florida", pursuant to Rule 5J-17.051 through 5J-17.052 of the Florida Administrative Code and its implementing law, Chapter 472.027 of the Florida Statutes.

**HADONNE CORP.**, a Florida Corporation  
 Florida Certificate of Authorization Number LB7097

By: **Raul Izquierdo, PSM**  
 For the Firm  
 Registered Surveyor and Mapper LS6099  
 State of Florida

NOTICE: Not valid without the original signature and seal of a Florida Licensed Surveyor and Mapper. Additions or deletions to Survey Maps by other than the signing party are prohibited without the written consent of the signing party.

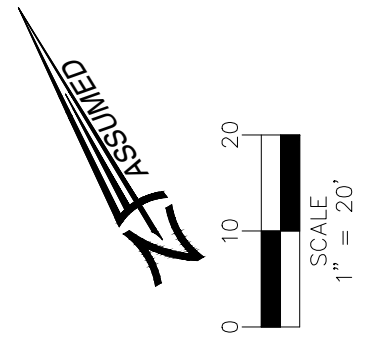






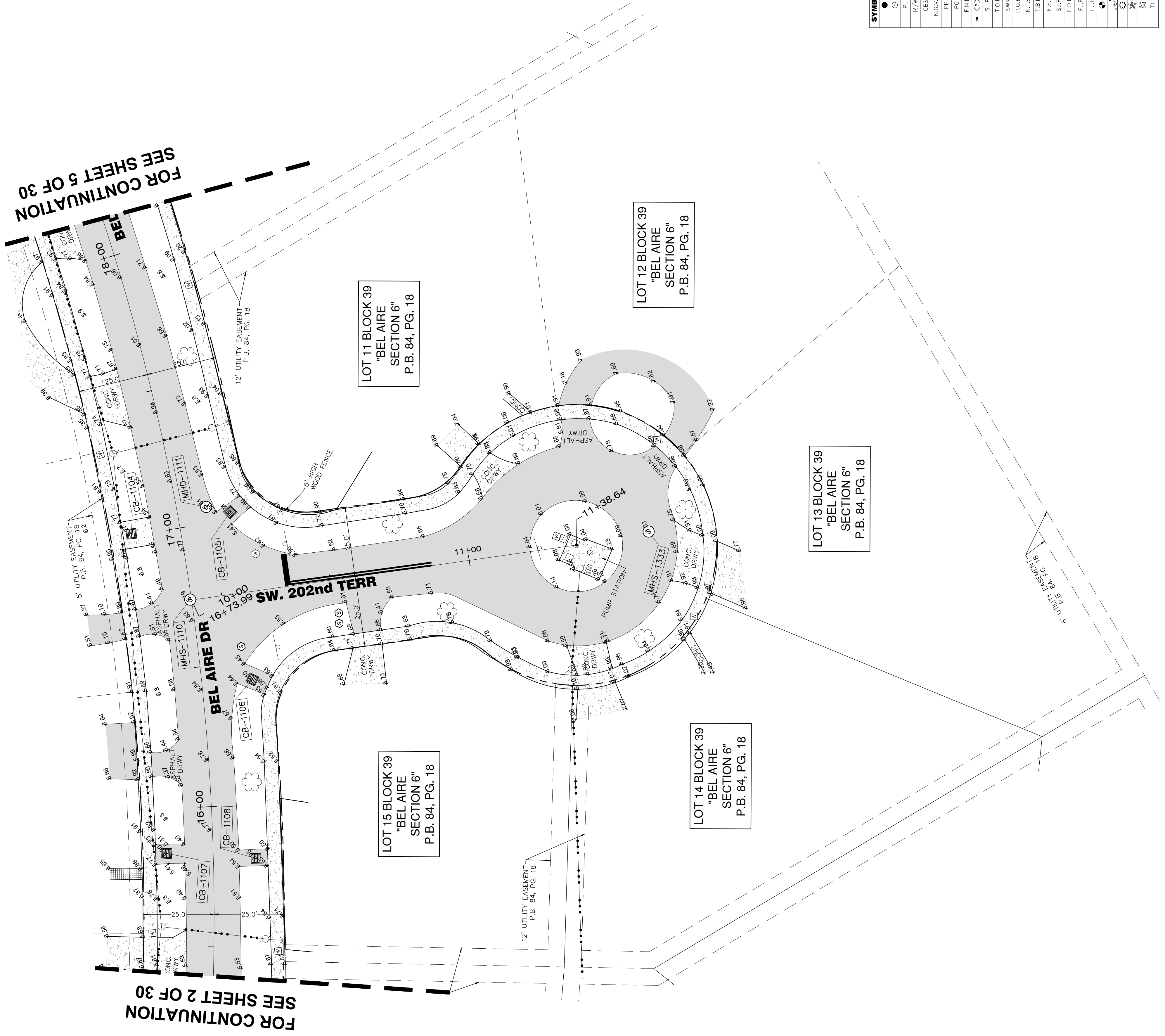


# MAP OF TOPOGRAPHIC SURVEY



FOR CONTINUATION  
SEE SHEET 2 OF 30

FOR CONTINUATION  
SEE SHEET 5 OF 30



LOT 11 BLOCK 39  
"BEL AIRE  
SECTION 6"  
P.B. 84, PG. 18

LOT 15 BLOCK 39  
"BEL AIRE  
SECTION 6"  
P.B. 84, PG. 18

LOT 12 BLOCK 39  
"BEL AIRE  
SECTION 6"  
P.B. 84, PG. 18

LOT 14 BLOCK 39  
"BEL AIRE  
SECTION 6"  
P.B. 84, PG. 18

LOT 13 BLOCK 39  
"BEL AIRE  
SECTION 6"  
P.B. 84, PG. 18



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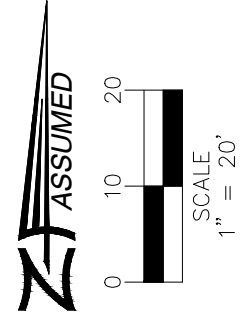
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○	FOUND IRON PIPE WITH CAP	□	CATCH BASIN	▭	CHAN-LINK ROLLING GATE
○	PROPERTY LINE	□	ELECTRIC UTILITY BOX	▭	CHAN-LINK SWING GATE
R/W	RIGHT-OF-WAY	□	WATER METER	▭	FENCE-OTHER
▭	CONCRETE BLOCK STUCCO	□	SANITARY SEWER CLEAN OUT	▭	IRON WING GATE
▭	N.C.V.D. NATIONAL GEODETIC VERTICAL DATUM	□	SANITARY SEWER MANHOLE	▭	CHAN-LINK FENCE
▭	FLAT BOOK	□	SANITARY SEWER VALVE	▭	CHAN-LINK SWING GATE
▭	PAVE	□	MANHOLE UNKNOWN	▭	FENCE OTHER
▭	FOUND NAIL & DISK	□	DRAINAGE MANHOLE	▭	PROPERTY LINE
▭	NUMBER OF PARKING SPACES	□	CHIMNEY	▭	RIGHT-WAY LINE
▭	SET IRON PIPE	□	FIRE DEFT CONNECTOR	▭	7-UTL-DRAIN
▭	TOP OF PIPE	□	GAS METER	▭	ASPHALT DRIVE
▭	SIDEWALK	□	TELECOMMUNICATIONS BOX	▭	OVERHEAD UTILITY LINE
▭	POINT OF BEGINNING	□	MONITORING WELL	▭	GRAVEL
▭	NOT TO SCALE	□	FIRE HYDRANT	▭	BRICKING MATCH
▭	REBAR BEACH MARK	□	BACK-FLOW PREVENTER	▭	CONCRETE
▭	STATION ELEVATION	□	QUADRAIL	▭	ASPHALT PAVEMENT
▭	SLR. STATION REBAR	□	GUY ANCHOR	▭	CONCRETE
▭	FOUND IRON PIPE	□	POST	▭	HANDICAP TACTILE STRIP
▭	FOUND IRON REBAR	□	MAILBOX		
▭	BENCHMARK	□	FPL TRANSFORMER		
▭	EXISTING ELEVATION	□	SIGNAL MAST ARM		
▭	PAVE	□	INTERCOM BOX		
▭	PAVE TREE	□	CONCRETE UTILITY POLE		
▭	IRRIGATION CONTROL VALVE	□	WOOD UTILITY POLE		
▭	TREE NUMBER				

**NOTICE:**  
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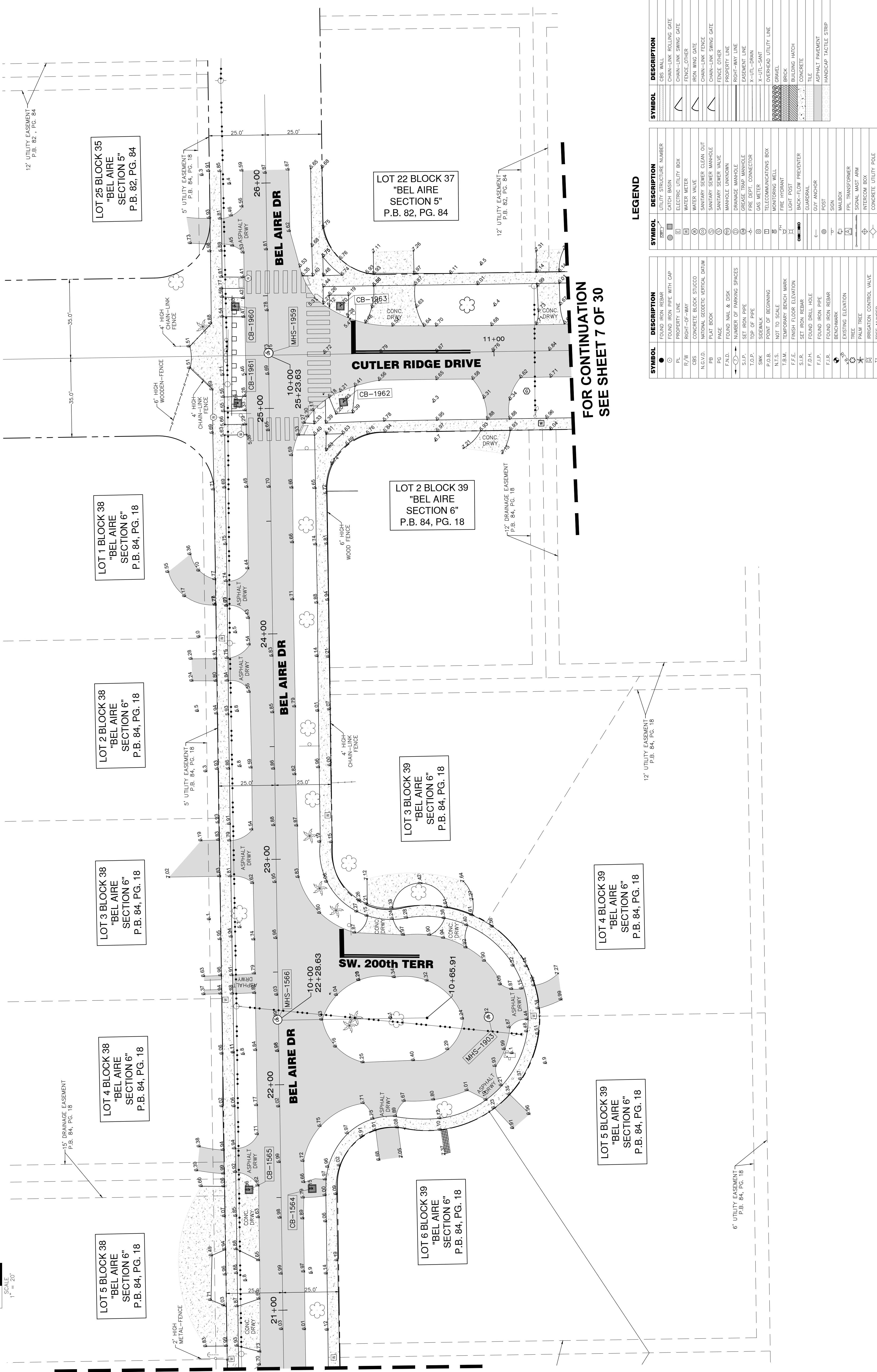
# MAP OF TOPOGRAPHIC SURVEY



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JOB NO.:	21151
DATE:	6/30



**LEGEND**

SYMBOL	DESCRIPTION
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○	FOUND IRON PIPE WITH CAP
PL	PROPERTY LINE
R/W	RIGHT-OF-WAY
CRS	CONCRETE BLOCK STUCCO
N.G.V.D.	NATIONAL GEODETIC VERTICAL DATUM
PB	PLAT BOOK
PG	PAGE
F.N.D.	FOUND NAIL & DISK
S.I.P.	SET IRON PIPE
T.O.P.	TOP OF PIPE
SWK	SIDEWALK
P.O.B.	POINT OF BEGINNING
N.T.S.	NOT TO SCALE
T.B.M.	TEMPORARY BENCH MARK
F.F.E.	FINISH FLOOR ELEVATION
S.I.R.	SET IRON REBAR
F.D.H.	FOUND DRILL HOLE
F.I.P.	FOUND IRON PIPE
F.I.R.	FOUND IRON REBAR
B.M.	BENCHMARK
▲	EXISTING ELEVATION
★	PALM TREE
⊗	IRRIGATION CONTROL VALVE
TI	TREE NUMBER

SYMBOL	DESCRIPTION
UTILITY STRUCTURE NUMBER	
CATCH BASIN	
ELECTRIC UTILITY BOX	
WATER METER	
WATER VALVE	
SANITARY SEWER CLEAN OUT	
SANITARY SEWER MANHOLE	
MANHOLE UNDOWN	
DRAINAGE MANHOLE	
GREASE TRAP MANHOLE	
FIRE DEPT. CONNECTOR	
TELECOMMUNICATIONS BOX	
TELEPHONE WELL	
FIRE HYDRANT	
BACK-FLOW PREVENTER	
GUARDRAIL	
POST	
SOIL ANCHOR	
SON	
MALBOX	
FPA TRANSFORMER	
SIGNAL MAST ARM	
INTERCOM BOX	
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WOOD UTILITY POLE	

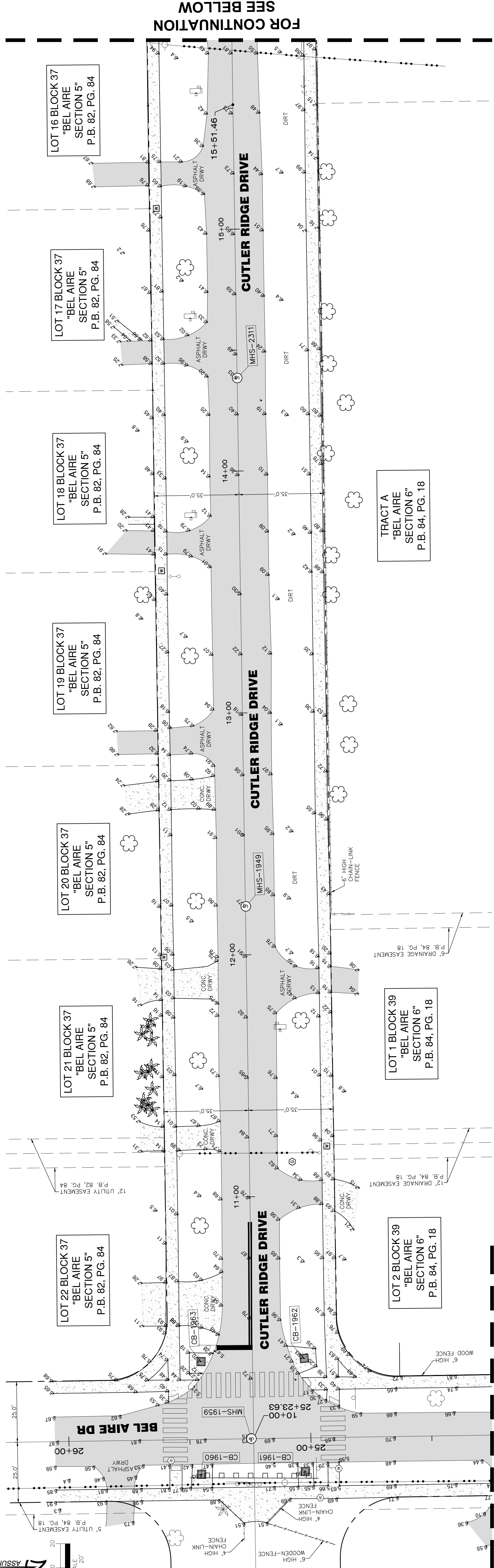
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IRON WING GATE	
CHAIN-LINK FENCE	
CHAIN-LINK SWING GATE	
FENCE OTHER	
PROPERTY LINE	
RIGHT-WAY LINE	
EASEMENT LINE	
X-UTL-DRAIN	
X-UTL-SANIT	
OVERHEAD UTILITY LINE	
BRICK	
BUILDING HATCH	
CONCRETE	
TILE	
ASPHALT PAVEMENT	
HANDICAP TACTILE STRIP	

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**FOR CONTINUATION**  
SEE SHEET 5 OF 30



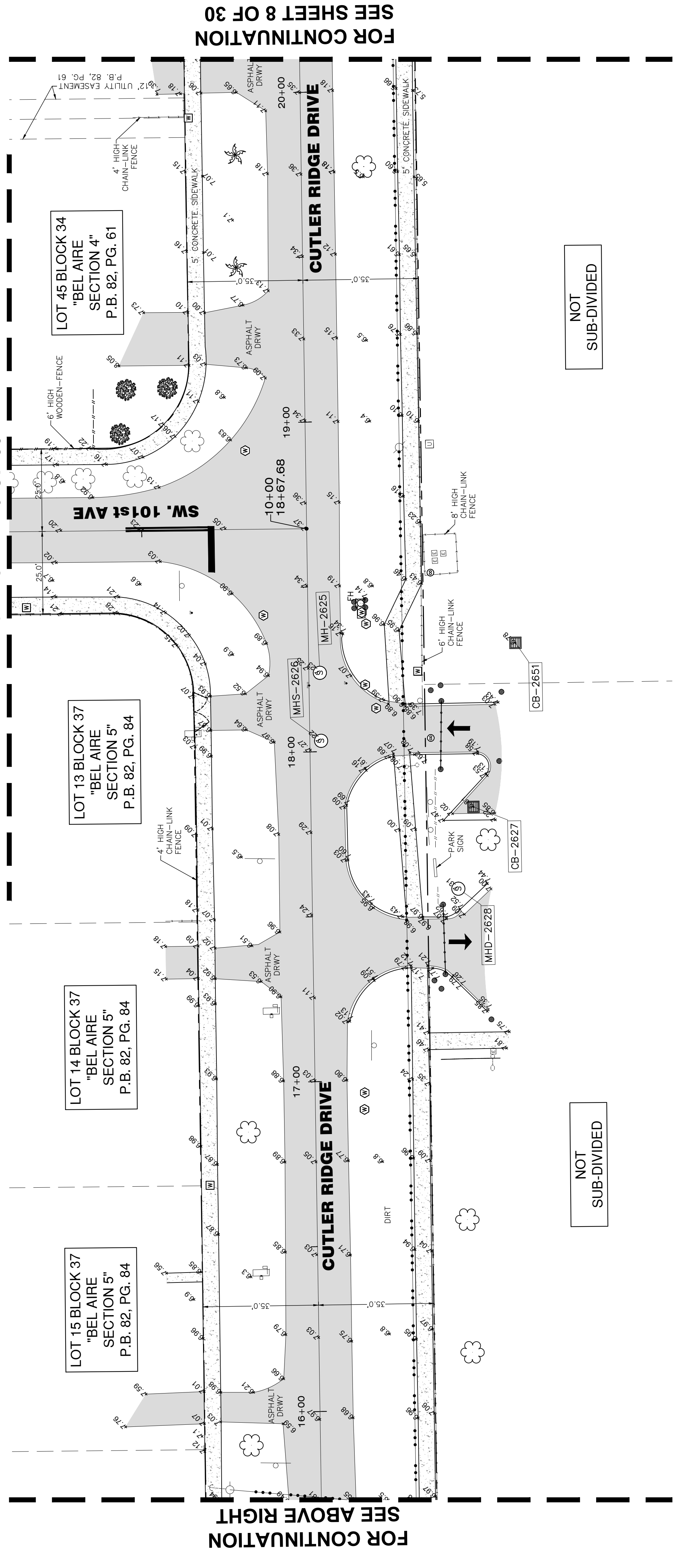
# MAP OF TOPOGRAPHIC SURVEY



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SEE SHEET 9 OF 30



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SEE SHEET 8 OF 30

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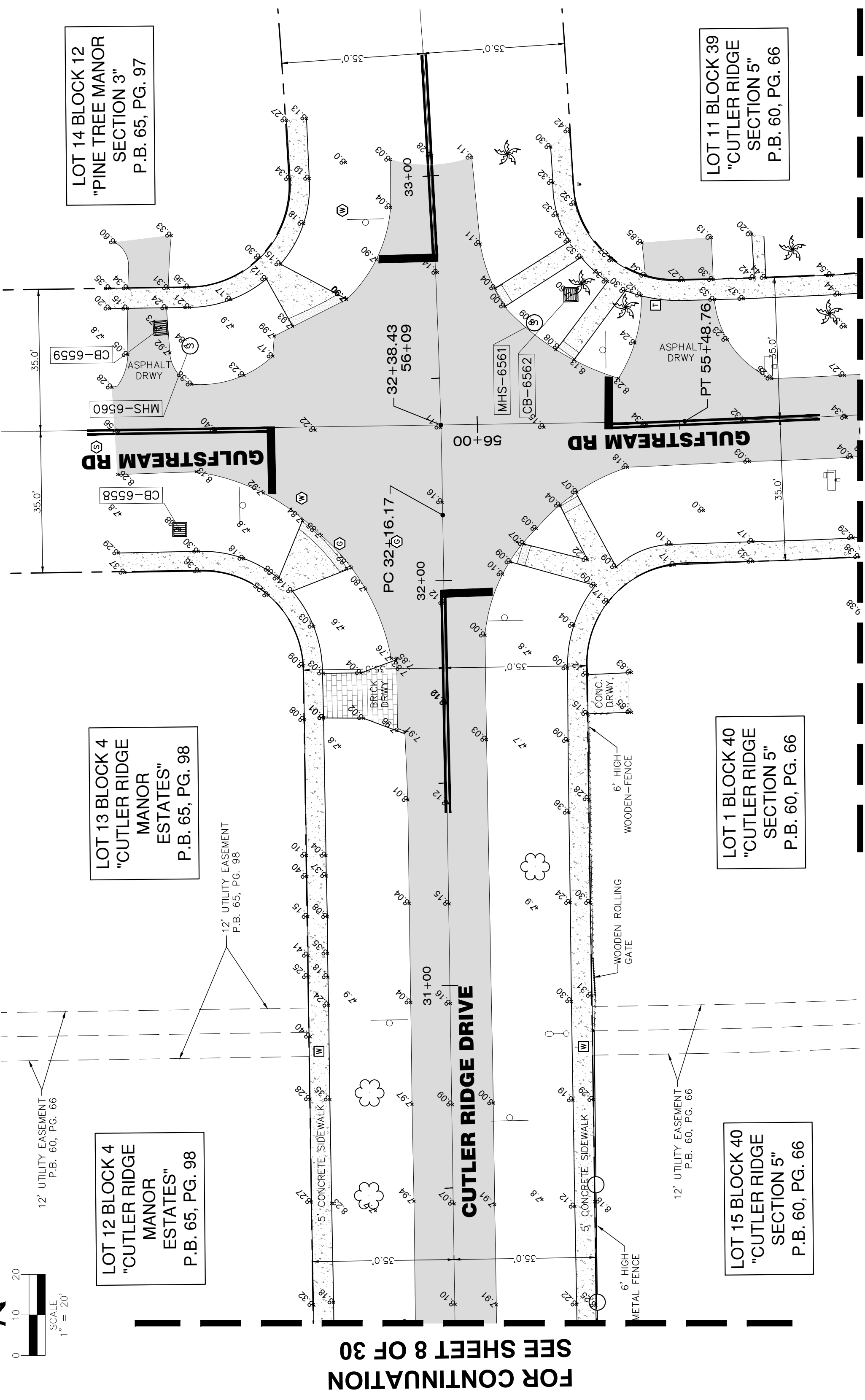
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○	FOUND IRON PIPE WITH CAP
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—	RIGHT-OF-WAY
—	CONCRETE BLOCK STUCCO
—	N.G.V.D.
—	NATIONAL GEODETIC VERTICAL DATUM
—	PLAT BOOK
—	PAGE
—	F.N.D.
—	FOUND NAIL & DISK
—	S.I.P.
—	SET IRON PIPE
—	TOP OF PIPE
—	SEWALK
—	POINT OF BEGINNING
—	N.T.S.
—	NOT TO SCALE
—	TEMPORARY BENCH MARK
—	F.F.E.
—	FINISH FLOOR ELEVATION
—	S.I.R.
—	SET IRON REBAR
—	F.D.H.
—	FOUND DRILL HOLE
—	F.I.P.
—	FOUND IRON PIPE
—	BENCHMARK
—	EXISTING ELEVATION
—	PALM TREE
—	IRRIGATION CONTROL VALVE
—	TREE NUMBER
—	FOUND IRON PIPE WITH CAP
—	ELECTRIC UTILITY BOX
—	WATER METER
—	WATER VALVE
—	SANITARY SEWER CLEAN OUT
—	SANITARY SEWER MANHOLE
—	SANITARY SEWER VALVE
—	MANHOLE UNKNOWN
—	DRAINAGE MANHOLE
—	GREASE TRAP MANHOLE
—	FIRE DEPT. CONNECTOR
—	GAS METER
—	TELECOMMUNICATIONS BOX
—	WELL
—	FIRE HYDRANT
—	LIGHT POST
—	BACK-FLOW PREVENTER
—	GUARDRAIL
—	POST
—	GOV. ANCHOR
—	MAILBOX
—	FPL TRANSFORMER
—	SIGNAL MAST ARM
—	INTERCOM BOX
—	CONCRETE UTILITY POLE
—	WOOD UTILITY POLE
—	CBS WALL
—	CHAIN-LINK ROLLING GATE
—	CHAIN-LINK SWING GATE
—	FENCE-OTHER
—	IRON WING GATE
—	CHAIN-LINK SWING GATE
—	CHAIN-LINK SWING GATE
—	FENCE OTHER
—	PROPERTY LINE
—	EASEMENT LINE
—	RIGHT-WAY LINE
—	X-UTIL-DRAIN
—	X-UTIL-SANT
—	OVERHEAD UTILITY LINE
—	GRAVEL
—	BRICK
—	BUILDING HATCH
—	CONCRETE
—	TILE
—	ASPHALT PAVEMENT
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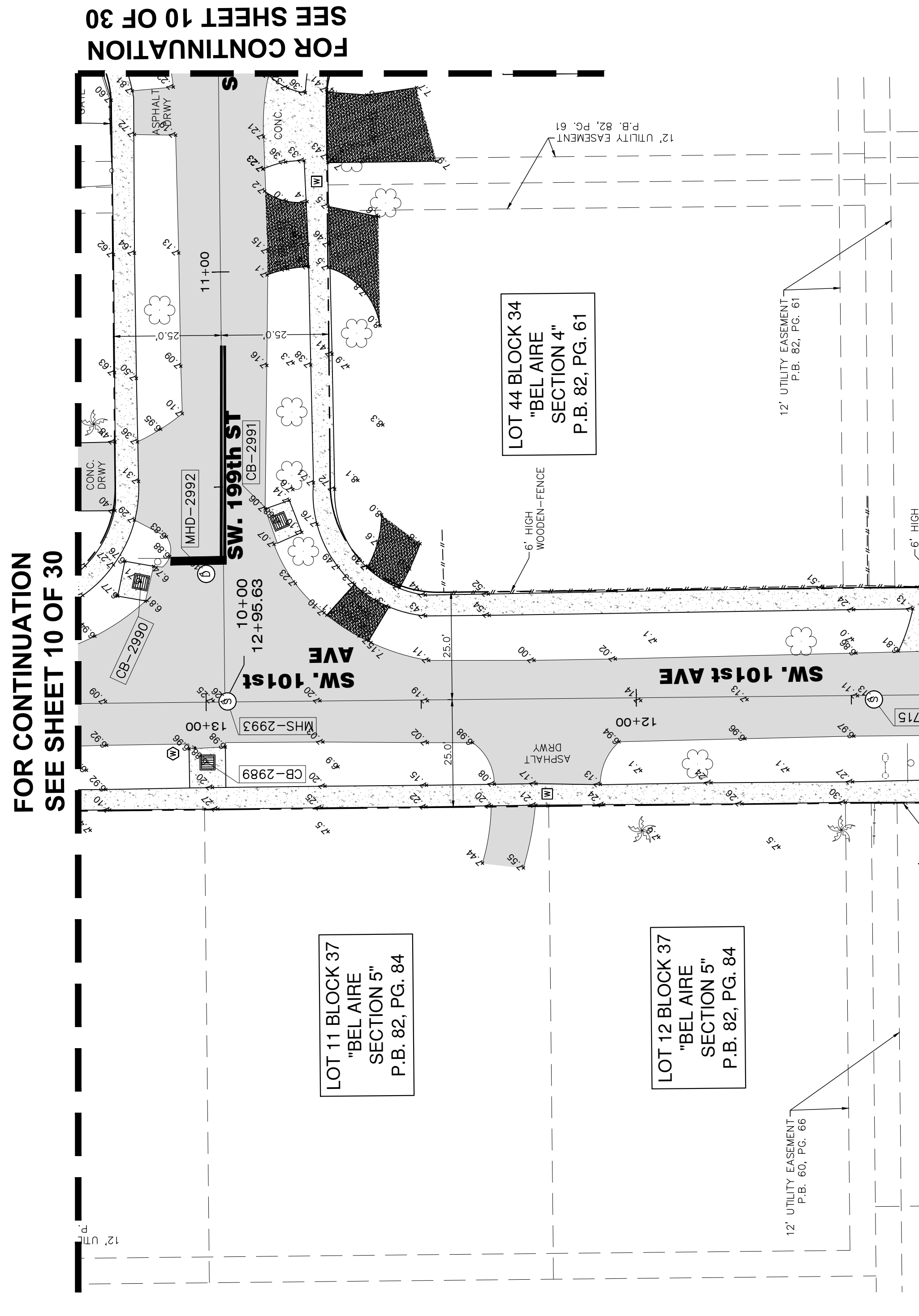


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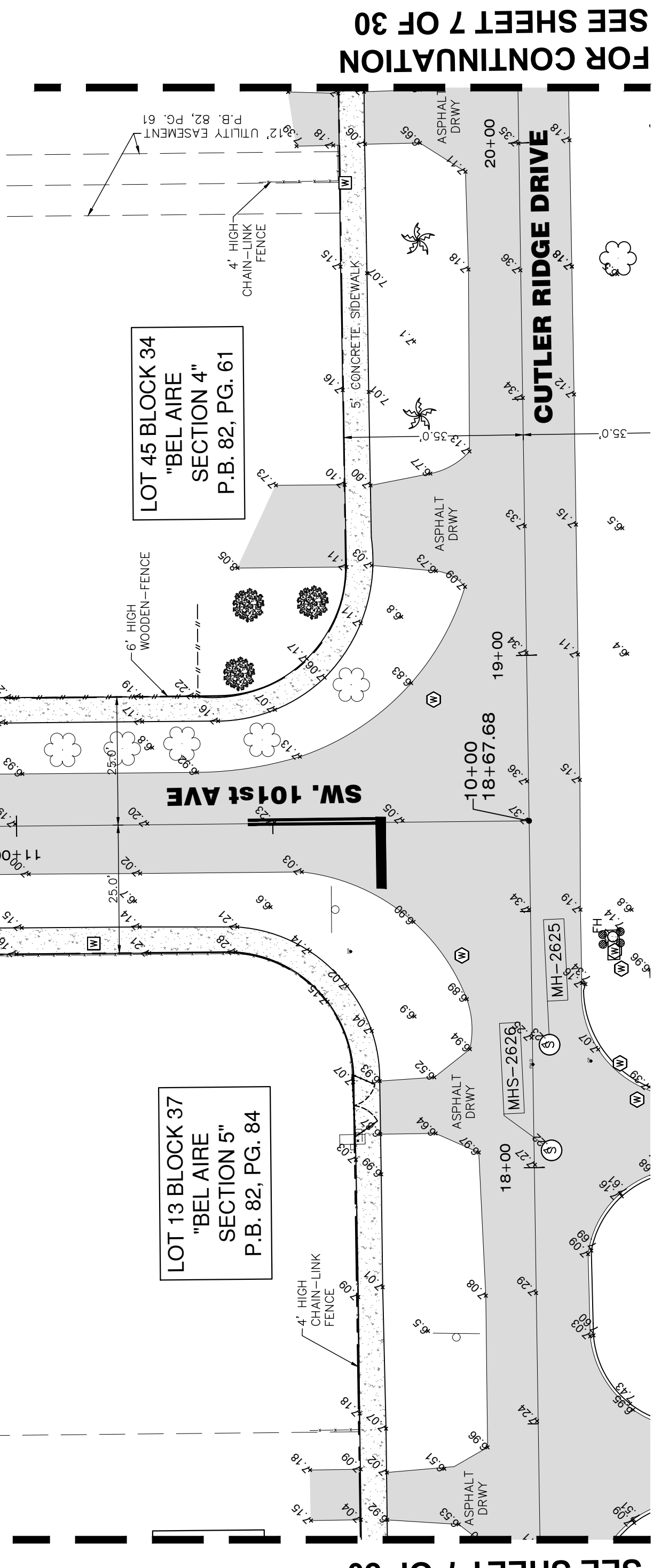
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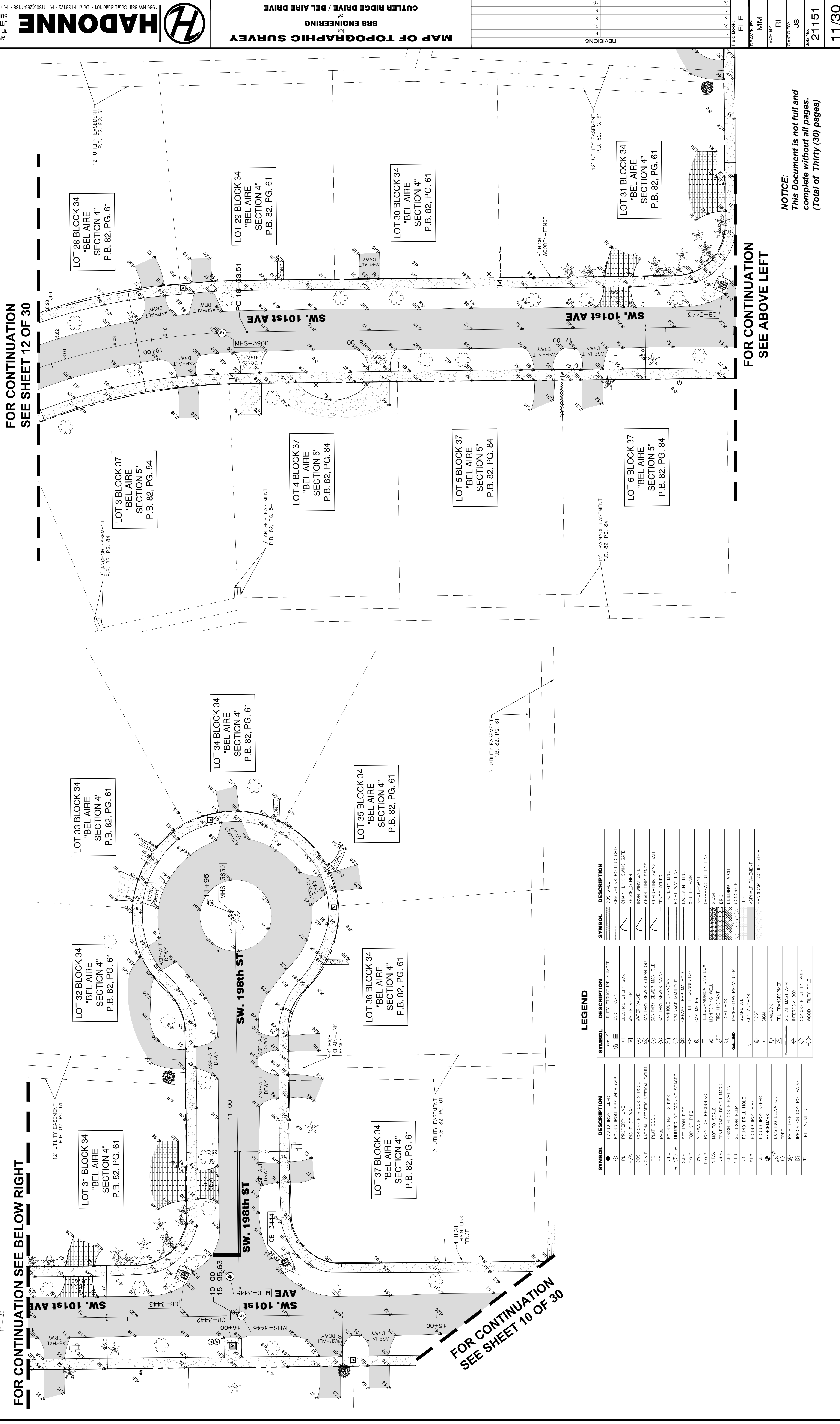
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●	FOUND IRON REBAR	▭	UTILITY STRUCTURE NUMBER	▭	CB WALL
○	FOUND IRON PIPE WITH CAP	□	CATCH BASIN	▭	CHAIN-LINK ROLLING GATE
—	PROPERTY LINE	⊕	ELECTRIC UTILITY BOX	▭	CHAIN-LINK SWING GATE
—	RIGHT-OF-WAY	⊕	WATER METER	▭	FENCE-OTHER
—	CONCRETE BLOCK STUCCO	⊕	WATER VALVE	▭	IRON WING GATE
—	WOODEN ROLLING	⊕	SANITARY SENSER CLEAN OUT	▭	CHAIN-LINK FENCE
—	METAL FENCE	⊕	SANITARY SENSER MARSHOLE	▭	CHAIN-LINK SWING GATE
—	WOODEN GATE	⊕	SANITARY SENSER VALVE	▭	FENCE OTHER
—	WOODEN FENCE	⊕	WARRANTY UNDER	▭	PROPERTY LINE
—	6" HIGH WOODEN-FENCE	⊕	WARRANTY UNDER	▭	EASEMENT ONE
—	6" HIGH WOODEN-FENCE	⊕	GREASE TRAP MANHOLE	▭	EASEMENT ONE
—	6" HIGH WOODEN-FENCE	⊕	FREE DEPT. CONNECTOR	▭	X-UTIL-SWAT
—	6" HIGH WOODEN-FENCE	⊕	GAS METER	▭	OVERHEAD UTILITY LINE
—	6" HIGH WOODEN-FENCE	⊕	TELECOMMUNICATIONS BOX	▭	BRICK
—	6" HIGH WOODEN-FENCE	⊕	MONITORING WELL	▭	BUILDING HATCH
—	6" HIGH WOODEN-FENCE	⊕	FIRE HYDRANT	▭	CONCRETE
—	6" HIGH WOODEN-FENCE	⊕	LIGHT POST	▭	TILE
—	6" HIGH WOODEN-FENCE	⊕	BACK-FLOW PREVENTER	▭	ASPHALT PAVEMENT
—	6" HIGH WOODEN-FENCE	⊕	GUARDRAIL	▭	HANDICAP TACTILE STRIP
—	6" HIGH WOODEN-FENCE	⊕	GUY ANCHOR	▭	
—	6" HIGH WOODEN-FENCE	⊕	POST	▭	
—	6" HIGH WOODEN-FENCE	⊕	MAILBOX	▭	
—	6" HIGH WOODEN-FENCE	⊕	SIGNAL MAST ARM	▭	
—	6" HIGH WOODEN-FENCE	⊕	FPL TRANSFORMER	▭	
—	6" HIGH WOODEN-FENCE	⊕	INTERCOM BOX	▭	
—	6" HIGH WOODEN-FENCE	⊕	CONCRETE UTILITY POLE	▭	
—	6" HIGH WOODEN-FENCE	⊕	WOOD UTILITY POLE	▭	

**NOTICE:**  
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# MAP OF TOPOGRAPHIC SURVEY



FOR CONTINUATION  
SEE SHEET 12 OF 30

FOR CONTINUATION  
SEE BELOW RIGHT

FOR CONTINUATION  
SEE SHEET 10 OF 30

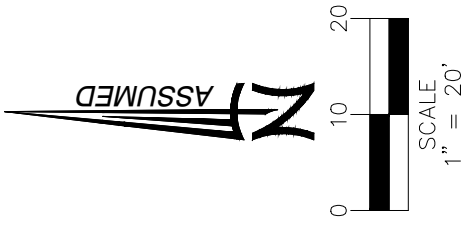
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### LEGEND

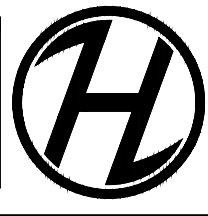
SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
○	FOUND IRON REBAR	▭	UTILITY STRUCTURE NUMBER	▭	CBS WALL
●	FOUND IRON PIPE WITH CAP	▭	CATCH BASIN	▭	CHAIN-LINK ROLLING GATE
○	PROPERTY LINE	▭	ELECTRIC UTILITY BOX	▭	CHAIN-LINK SWING GATE
○	RIGHT-OF-WAY	▭	WATER METER	▭	FENCE-OTHER
○	CONCRETE BLOCK STUCCO	▭	WATER VALVE	▭	IRON WING GATE
○	N.G./D. NATIONAL GEODETIC VERTICAL DATUM	▭	SANITARY SEWER CLEAN OUT	▭	CHAIN-LINK FENCE
○	PLAT BOOK	▭	SANITARY SEWER MANHOLE	▭	CHAIN-LINK SWING GATE
○	PAGE	▭	SANITARY SEWER VALVE	▭	FENCE OTHER
○	F.N.D. FOUND NAIL & DISK	▭	MANHOLE UNKNOWN	▭	PROPERTY LINE
○	SET IRON PIPE	▭	DRAINAGE MANHOLE	▭	RIGHT-WAY LINE
○	TOP OF PIPE	▭	GREASE TRAP MANHOLE	▭	EASEMENT LINE
○	SHERWALK	▭	FIRE DEPT. CONNECTOR	▭	X-UTIL-SANT
○	POINT OF BEGINNING	▭	GAS METER	▭	X-UTIL-DRAIN
○	NOT TO SCALE	▭	TELECOMMUNICATIONS BOX	▭	OVERHEAD UTILITY LINE
○	TEMPORARY BENCH MARK	▭	WELL	▭	BRICK
○	FINISH FLOOR ELEVATION	▭	FIRE HYDRANT	▭	GRAVEL
○	SET IRON REBAR	▭	LIGHT POST	▭	BUILDING HATCH
○	FOUND DRILL HOLE	▭	BACK-SLOW PREVENTER	▭	CONCRETE
○	FOUND IRON PIPE	▭	CURB&GUT	▭	TILE
○	FOUND IRON REBAR	▭	COY ANCHOR	▭	ASPHALT PAVEMENT
○	BENCHMARK	▭	SOON	▭	HANDICAP TACTILE STRIP
○	EXISTING ELEVATION	▭	MALEROX	▭	
○	PALM TREE	▭	FPAL TRANSFORMER	▭	
○	IRRIGATION CONTROL VALVE	▭	SIGNAL MAST ARM	▭	
○	TREE NUMBER	▭	INTERCOM BOX	▭	
		▭	CONCRETE UTILITY POLE	▭	
		▭	WOOD UTILITY POLE	▭	

# MAP OF TOPOGRAPHIC SURVEY



## MAP OF TOPOGRAPHIC SURVEY FOR SRS ENGINEERING OF CUTLER RIDGE DRIVE / BEL AIRE DRIVE

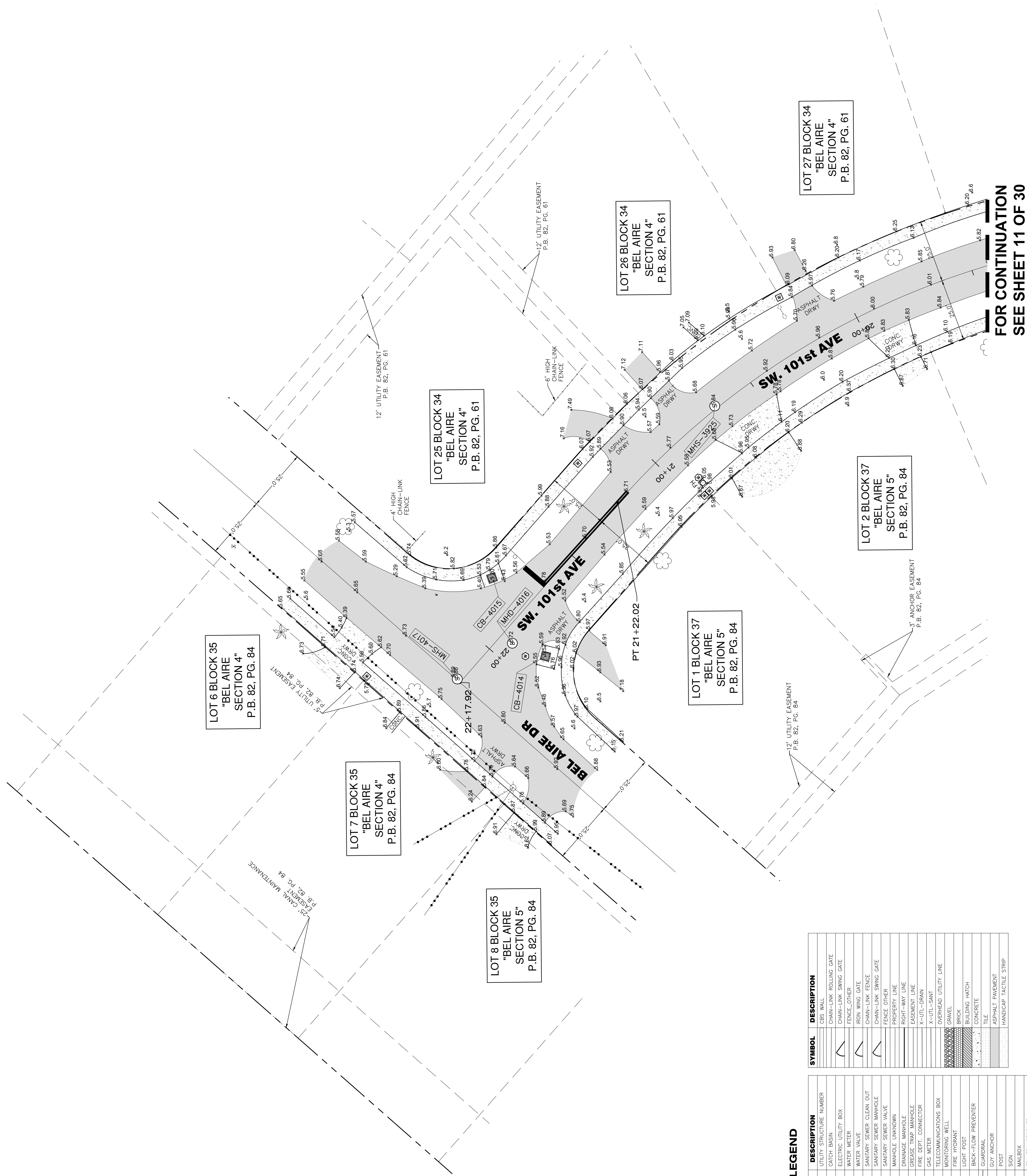
LAND SURVEYOR AND MAPPERS  
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UTILITY COORDINATION  
SURFACE UTILITY ENGINEERING  
W: www.hadonne.com  
F: +1(905)207-8845  
P: +1(905)266-1188  
1965 NW 88th Court, Suite 101 - Dorval, FL 33172



REVISIONS
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FILE	MM	RI	JS	21151	12/30
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CHECKED BY:		DATE:			

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LOT 27 BLOCK 34  
"BEL AIRE  
SECTION 4"  
P.B. 82, PG. 61

LOT 26 BLOCK 34  
"BEL AIRE  
SECTION 4"  
P.B. 82, PG. 61

LOT 25 BLOCK 34  
"BEL AIRE  
SECTION 4"  
P.B. 82, PG. 61

LOT 2 BLOCK 37  
"BEL AIRE  
SECTION 5"  
P.B. 82, PG. 84

LOT 1 BLOCK 37  
"BEL AIRE  
SECTION 5"  
P.B. 82, PG. 84

LOT 6 BLOCK 35  
"BEL AIRE  
SECTION 4"  
P.B. 82, PG. 84

LOT 7 BLOCK 35  
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P.B. 82, PG. 84

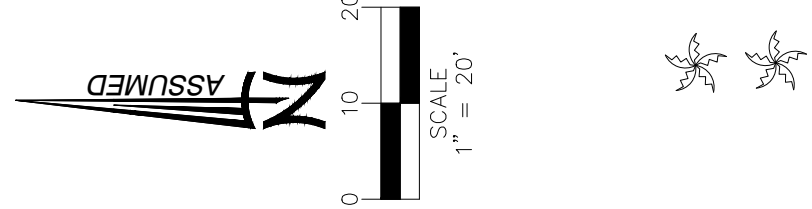
LOT 8 BLOCK 35  
"BEL AIRE  
SECTION 5"  
P.B. 82, PG. 84

### LEGEND

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
●	FOUND IRON REBAR	⊕	UTILITY STRUCTURE NUMBER	▬	CBS WALL
○	FOUND IRON PIPE WITH CAP	⊖	CATCH BASIN	▬	CHAIN-LINK ROLLING GATE
PL	PROPERTY LINE	⊕	ELECTRIC UTILITY BOX	▬	CHAIN-LINK SWING GATE
R/W	RIGHT-OF-WAY	⊖	WATER METER	▬	IRON WING GATE
CBS	CONCRETE BLOCK STUCCO	⊕	WATER VALVE	▬	CHAIN-LINK SWING GATE
N.G.S.D.	NATIONAL GEODETIC VERTICAL DATUM	⊖	SANITARY SEWER CLEAN OUT	▬	CHAIN-LINK SWING GATE
PB	PLAT BOOK	⊕	SANITARY SEWER MANHOLE	▬	FENCE OTHER
PG	PAGE	⊖	SANITARY SEWER VALVE	▬	PROPERTY LINE
F.N.D.	FOUND NAIL & DISK	⊕	MANHOLE UNKNOWN	▬	RIGHT-WAY LINE
S.I.P.	SET IRON PIPE	⊖	DRAINAGE MANHOLE	▬	EASEMENT LINE
T.O.P.	TOP OF PIPE	⊕	GREASE TRAP MANHOLE	▬	X-UTL-DRAIN
SWK	SIDEWALK	⊖	FIRE DEPT. CONNECTOR	▬	X-UTL-SANT
P.O.B.	POINT OF BEGINNING	⊕	GAS METER	▬	OVERHEAD UTILITY LINE
N.T.S.	NOT TO SCALE	⊖	TELECOMMUNICATIONS BOX	▬	GRAVEL
T.B.M.	TEMPORARY BENCH MARK	⊕	MONITORING WELL	▬	BRICK
F.F.E.	FINISH FLOOR ELEVATION	⊖	FIRE HYDRANT	▬	BUILDING HATCH
F.D.H.	FOUND DRILL HOLE	⊕	LIGHT POST	▬	CONCRETE
F.I.P.	FOUND IRON PIPE	⊖	BACK-FLOOR PREVENTER	▬	TILE
F.I.R.	FOUND IRON REBAR	⊕	ANCHOR	▬	ASPHALT PAVEMENT
⊕	BENCHMARK	⊖	CONCRETE	▬	HANDICAP TACTILE STRIP
⊕	EXISTING ELEVATION	⊕	MAILBOX	▬	
⊕	PALM TREE	⊖	FFL TRANSFORMER	▬	
⊕	IRRIGATION CONTROL VALVE	⊕	SIGNAL MAST ARM	▬	
T1	TREE NUMBER	⊖	INTERCOM BOX	▬	
		⊕	CONCRETE UTILITY POLE	▬	
		⊖	WOOD UTILITY POLE	▬	

FOR CONTINUATION  
SEE SHEET 11 OF 30

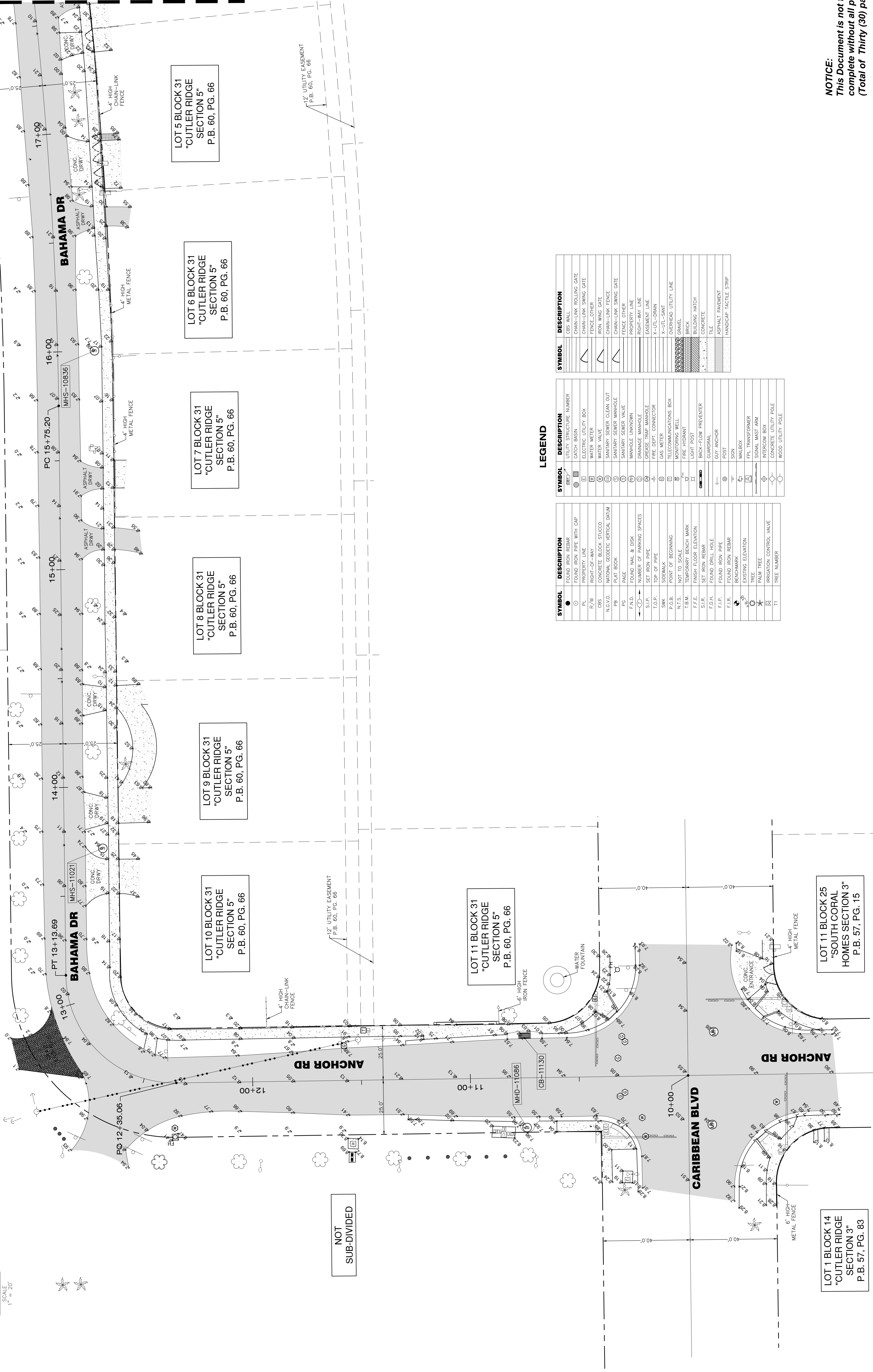
# MAP OF TOPOGRAPHIC SURVEY



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FOR CONTINUATION  
SEE SHEET 14 OF 30



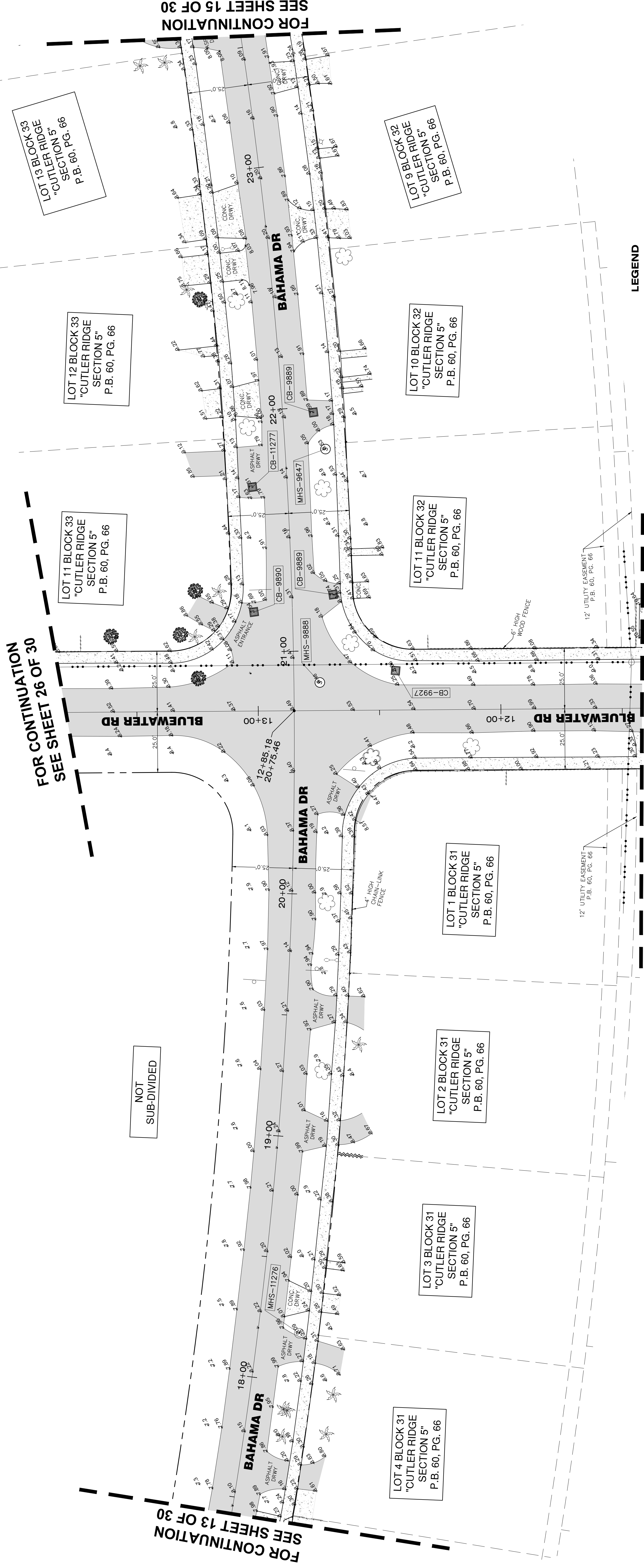
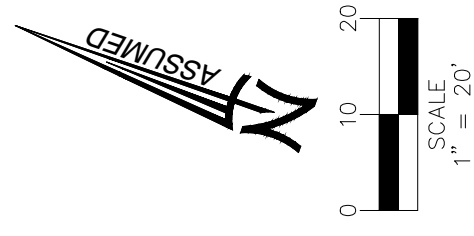
### LEGEND

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
●	FOUND IRON REBAR	⊠	UTILITY STRUCTURE NUMBER	▬	CEB WALL
○	FOUND IRON PIPE WITH CAP	⊞	CATCH BASIN	▬	CHAIN-LINK ROLLING GATE
⊙	PROPERTY LINE	⊞	ELECTRIC UTILITY BOX	▬	CHAIN-LINK SWING GATE
P/L	RIGHT-OF-WAY	⊞	WATER METER	▬	FENCE OTHER
CONC.	CONCRETE BLOCK STUCCO	⊞	WATER METER	▬	IRON WING GATE
N.C.S.	NON-CORROSIVE SURFACE	⊞	SANITARY SEWER CLEAN OUT	▬	CHAIN-LINK FENCE
PLT	PLANT BOOK	⊞	SANITARY SEWER MANHOLE	▬	CHAIN-LINK SWING GATE
FB	FACE	⊞	SANITARY SEWER VALVE	▬	FENCE OTHER
F.N.D.	FOUND NAIL & RISK	⊞	MANHOLE UNKOWN	▬	PROPERTY LINE
→	NUMBER OF PARKING SPACES	⊞	DRAINAGE MANHOLE	▬	RIGHT-WAY LINE
S.I.P.	SET IRON PIPE	⊞	GREASE TRAP MANHOLE	▬	EASEMENT LINE
T.O.P.	TOP OF PIPE	⊞	FIRE BEFT, CONNECTOR	▬	X-UTIL-SANIT
SWK	SIDEWALK	⊞	GAS METER	▬	X-UTIL-SANIT
P.O.B.	POINT OF BEGINNING	⊞	TELECOMMUNICATIONS BOX	▬	OVERHEAD UTILITY LINE
N.T.S.	NOT TO SCALE	⊞	MONITORING WELL	▬	GRAVEL
T.B.M.	TEMPORARY BENCH MARK	⊞	FIRE HYDRANT	▬	BRICK
F.F.E.	FINISH FLOOR ELEVATION	⊞	LIGHT POST	▬	BUILDING HATCH
S.I.R.	SET IRON REBAR	⊞	BACK-FLOW PREVENTER	▬	CONCRETE
F.D.H.	FOUND DRILL HOLE	⊞	GUARDRAIL	▬	TILE
F.I.P.	FOUND IRON PIPE	⊞	OUT ANCHOR	▬	ASPHALT PAVEMENT
F.I.R.	FOUND IRON REBAR	⊞	POST	▬	HANDICAP TACTILE STRIP
⊞	BENCHMARK	⊞	MALBOX	▬	
⊞	EXISTING ELEVATION	⊞	SIGNAL MAST ARM	▬	
⊞	TREE	⊞	INTERCOM BOX	▬	
⊞	PALM TREE	⊞	CONCRETE UTILITY POLE	▬	
⊞	IRRIGATION CONTROL VALVE	⊞	WOOD UTILITY POLE	▬	
⊞	TREE NUMBER	⊞		▬	

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This Document is not full and  
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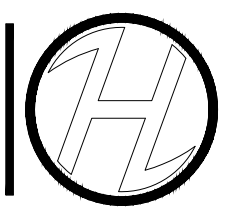
# MAP OF TOPOGRAPHIC SURVEY



### LEGEND

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
●	FOUND IRON REBAR	⊙	UTILITY STRUCTURE NUMBER	—	CBS WALL
○	PROPERTY LINE	□	CATCH BASIN	—	CHAIN-LINK ROLLING GATE
—	RIGHT-OF-WAY	⊕	ELECTRIC UTILITY BOX	—	CHAIN-LINK SWING GATE
—	CONCRETE BLOCK STUCCO	⊖	WATER METER	—	FENCE-OTHER
—	NATIONAL GEODETIC VERTICAL DATUM	⊗	WATER VALVE	—	IRON WING GATE
—	PLAT BOOK	⊘	SANITARY SEWER CLEAN OUT	—	CHAIN-LINK FENCE
—	FOUND NAIL & DISK	⊙	SANITARY SEWER MANHOLE	—	CHAIN-LINK SWING GATE
—	NUMBER OF PARKING SPACES	⊘	SANITARY SEWER VALVE	—	FENCE-OTHER
—	SET IRON PIPE	⊙	MANHOLE UNKNOWN	—	PROPERTY LINE
—	TOP OF PIPE	⊘	DRAINAGE MANHOLE	—	RIGHT-WAY LINE
—	SIDEWALK	⊙	GREASE TRAP MANHOLE	—	EASEMENT LINE
—	POINT OF BEGINNING	⊘	FIRE DFT. CONNECTOR	—	X-UTL-DRAIN
—	NOT TO SCALE	⊙	GAS METER	—	X-UTL-SANIT
—	TEMPORARY BENCH MARK	⊘	TELECOMMUNICATIONS BOX	—	OVERHEAD UTILITY LINE
—	FINISH FLOOR ELEVATION	⊙	MONITORING WELL	—	GRAVEL
—	FOUND IRON REBAR	⊘	FIRE HYDRANT	—	BRICK
—	FOUND IRON PIPE	⊙	LIGHT POST	—	BUILDING HATCH
—	BENCH-MARK	⊘	BACK-FLOOR PREVENTER	—	CONCRETE
—	EXISTING ELEVATION	⊙	GUARDRAIL	—	TILE
—	PALM TREE	⊘	POST	—	ASPHALT PAVEMENT
—	IRRIGATION CONTROL VALVE	⊙	POST	—	HANDICAP TACTILE STRIP
—	TREE NUMBER	⊘	MAILBOX	—	
		⊙	FRONT TRANSFORMER	—	
		⊘	SIGNAL MAST ARM	—	
		⊙	INFECOM BOX	—	
		⊘	CONCRETE UTILITY POLE	—	
		⊙	WOOD UTILITY POLE	—	

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CHECKED BY:	JS
DATE:	21151
SCALE:	14/30

FOR CONTINUATION  
SEE SHEET 13 OF 30

FOR CONTINUATION  
SEE SHEET 26 OF 30

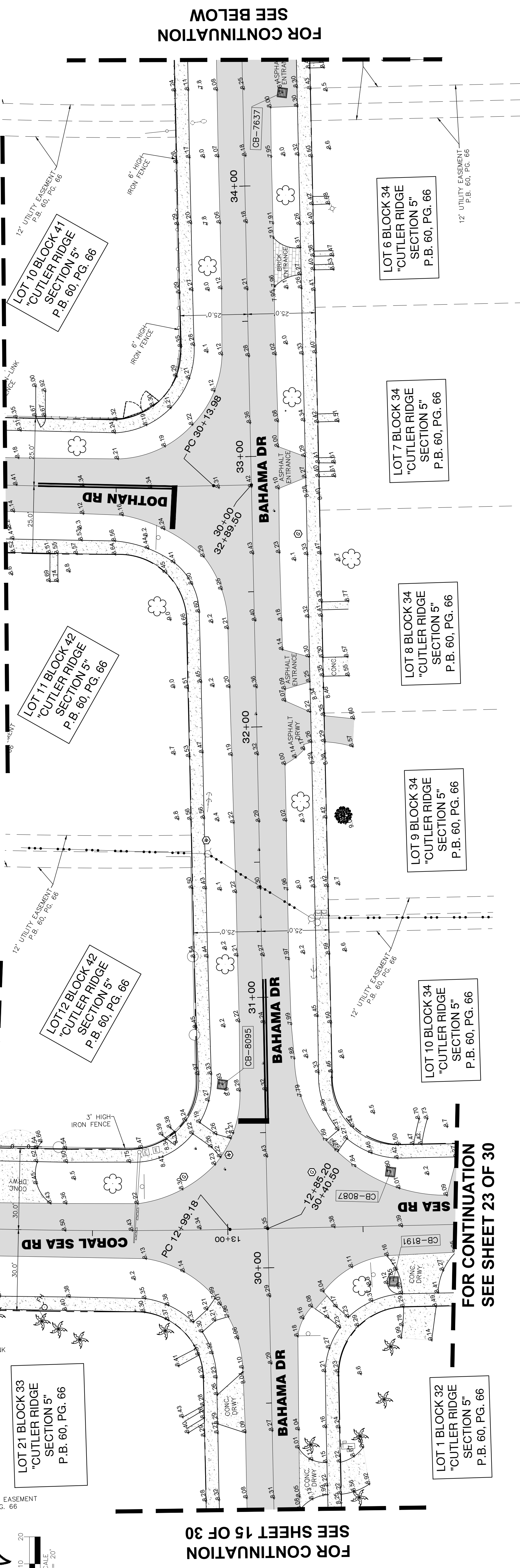
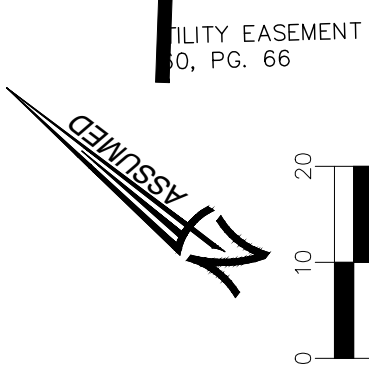
FOR CONTINUATION  
SEE SHEET 26 OF 30





# MAP OF TOPOGRAPHIC SURVEY

FOR CONTINUATION  
 SEE SHEET 23 OF 30

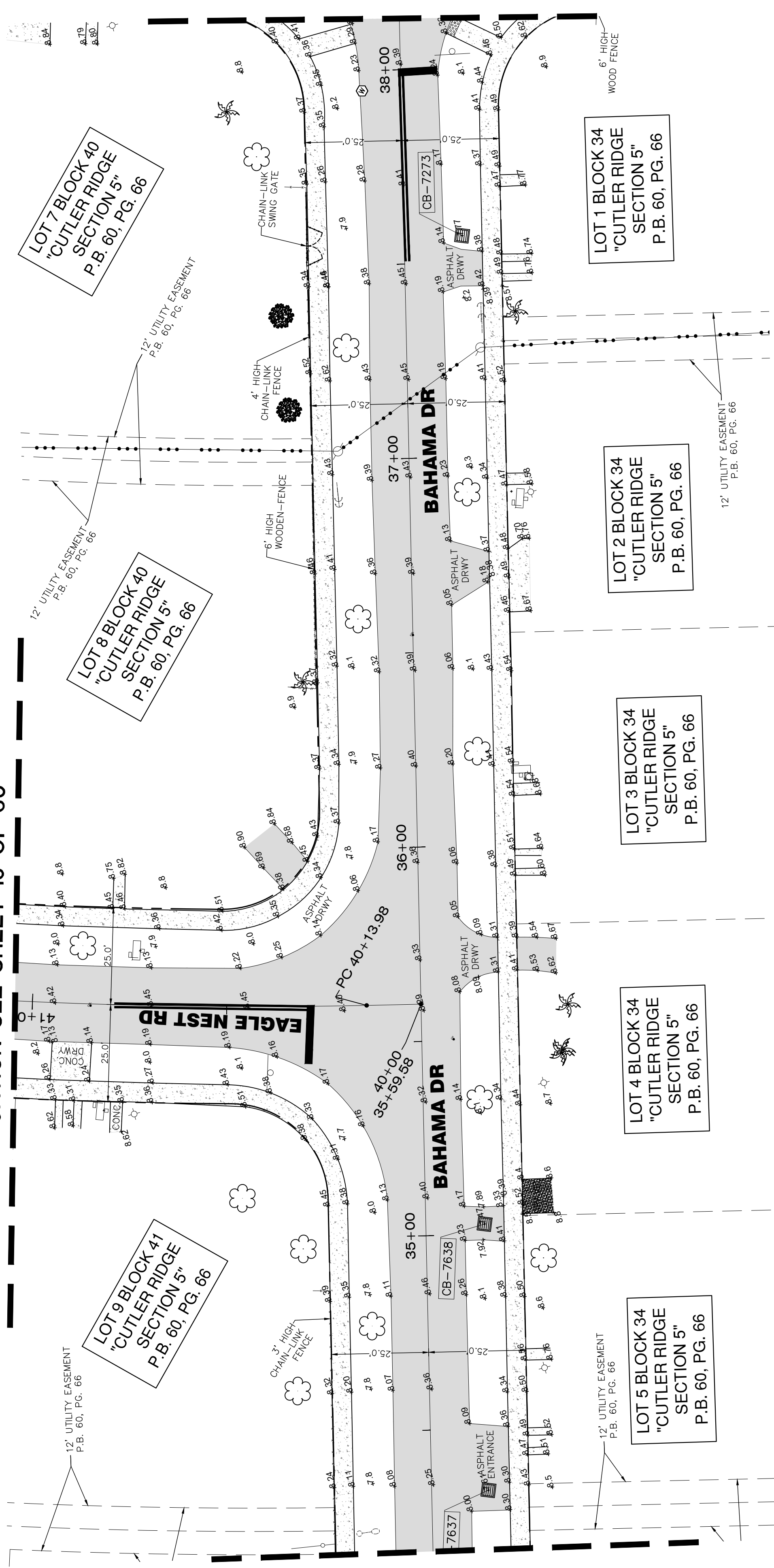


FOR CONTINUATION  
 SEE SHEET 15 OF 30

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 SEE SHEET 17 OF 30

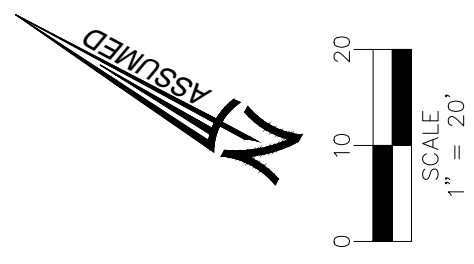
SYMBOL	DESCRIPTION
○	FOUND IRON REBAR
○	PROPERTY LINE
R/W	RIGHT-OF-WAY
CB	CONCRETE BLOCK STUCCO
N.G.V.D.	NATIONAL GEODETIC VERTICAL DATUM
PB	PLAT BOOK
PC	PAGE
F.A.D.	FOUND NAIL & DISK
S.I.P.	SET IRON PIPE
T.O.P.	TOP OF PIPE
SWK	SIDEWALK
P.O.B.	POINT OF BEGINNING
N.T.S.	NOT TO SCALE
T.B.M.	TEMPORARY BENCH MARK
F.F.E.	FINISH FLOOR ELEVATION
S.I.R.	SET IRON REBAR
F.D.H.	FOUND DRILL HOLE
F.I.P.	FOUND IRON PIPE
F.I.R.	FOUND IRON REBAR
B.M.	BENCHMARK
E.E.	EXISTING ELEVATION
T	TREE
P	PALM TREE
I	IRRIGATION CONTROL VALVE
TI	TREE NUMBER

SYMBOL	DESCRIPTION
○	CATCH BASIN
□	ELECTRIC UTILITY BOX
□	WATER METER
□	WATER VALVE
□	SANITARY SEWER CLEAN OUT
□	SANITARY SEWER MANHOLE
□	MANHOLE UNKNOWN
□	DRAINAGE TRAP MANHOLE
□	GREASE TRAP MANHOLE
□	FIRE DEPT. CONNECTOR
□	GAS METER
□	TELECOMMUNICATIONS BOX
□	MONITORING WELL
□	FIRE HYDRANT
□	BACK-FLOOR PREVENTER
□	GUARDRAIL
□	POST
□	POST
□	MAILBOX
□	FRI TRANSFORMER
□	SIGNAL MASTER ARM
□	INTERCOM BOX
□	CONCRETE UTILITY POLE
□	WOOD UTILITY POLE

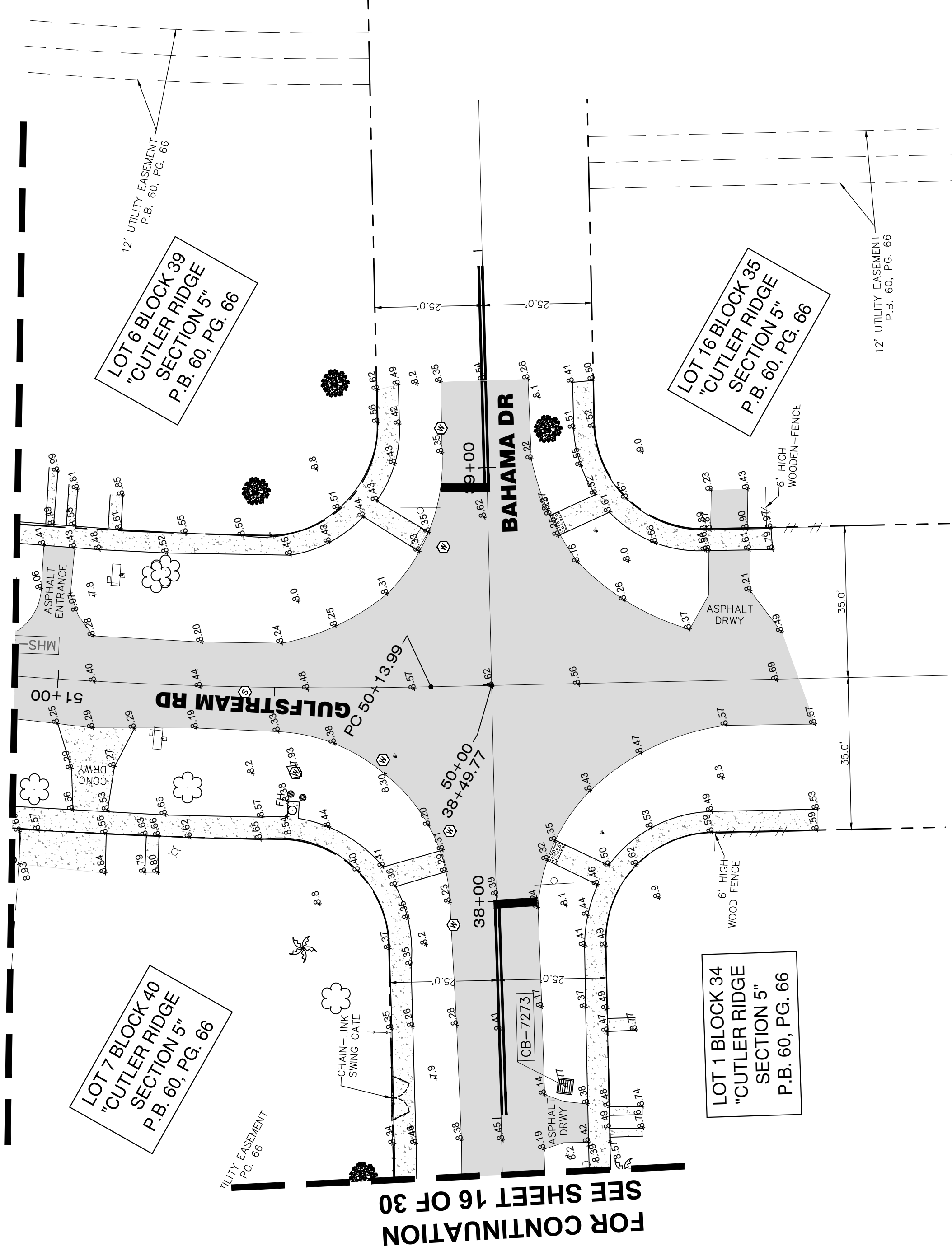
SYMBOL	DESCRIPTION
□	CHAIN-LINK ROLLING GATE
□	CHAIN-LINK SWING GATE
□	FENCE OTHER
□	IRON WING FENCE
□	CHAIN-LINK FENCE
□	CHAIN-LINK SWING GATE
□	FENCE OTHER
□	PROPERTY LINE
□	RIGHT-WAY LINE
□	EASEMENT LINE
□	X-UTL-DRAIN
□	X-UTL-SANIT
□	OVERHEAD UTILITY LINE
□	BRICK
□	GRAVEL
□	CONCRETE
□	BUILDING HATCH
□	TILE
□	ASPHALT PAVEMENT
□	HANDICAP TACTILE STRIP

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# MAP OF TOPOGRAPHIC SURVEY



FOR CONTINUATION  
SEE SHEET 18 OF 30



FOR CONTINUATION  
SEE SHEET 16 OF 30

## LEGEND

SYMBOL	DESCRIPTION
○	FOUND IRON REBAR
○	FOUND IRON PIPE WITH CAP
○	PROPERTY LINE
R/W	RIGHT-OF-WAY
□	CONCRETE BLOCK STUCCO
N.S.V.D.	NATIONAL GEODETIC VERTICAL DATUM
FB	FLAT BROOK
PS	PAGE
F.N.D.	FOUND NAIL & DISK
○	NUMBER OF PARKING SPACES
S.L.P.	SET IRON PIPE
T.O.P.	TOP OF PIPE
SWK	SIDEWALK
P.O.B.	POINT OF BEGINNING
N.T.S.	NOT TO SCALE
T.B.M.	TEMPORARY BENCH MARK
F.F.E.	FINISH FLOOR ELEVATION
S.L.R.	SET IRON REBAR
F.D.H.	FOUND DRILL HOLE
F.I.P.	FOUND IRON PIPE
F.I.R.	FOUND IRON REBAR
○	BENCHMARK
○	EXISTING ELEVATION
○	PALM TREE
○	TREE
○	IRRIGATION CONTROL VALVE
T1	TREE NUMBER

SYMBOL	DESCRIPTION
○	UTILITY STRUCTURE NUMBER
○	CATCH BASIN
○	ELECTRIC UTILITY BOX
○	WATER METER
○	WATER VALVE
○	SANITARY SEWER CLEAN OUT
○	SANITARY SEWER MANHOLE
○	MANHOLE UNKNOWN
○	DRAINAGE MANHOLE
○	GREASE TRAP MANHOLE
○	FIRE DEPT. CONNECTOR
○	GAS METER
○	TELECOMMUNICATIONS BOX
○	WATERING WELL
○	WATER PART
○	LIGHT POST
○	BACK-FLOW PREVENTER
○	CUMBERSAL
○	GUY ANCHOR
○	POST
○	SIGN
○	MAILBOX
○	FPL TRANSFORMER
○	SIGNAL MAST ARM
○	INTERCOM BOX
○	CONCRETE UTILITY POLE
○	WOOD UTILITY POLE

SYMBOL	DESCRIPTION
○	CBS WALL
○	CHAIN-LINK ROLLING GATE
○	CHAIN-LINK SWING GATE
○	FENCE OTHER
○	IRON WING GATE
○	CHAIN-LINK FENCE
○	CHAIN-LINK SWING GATE
○	FENCE OTHER
○	PROPERTY LINE
○	RIGHT-WAY LINE
○	EASEMENT LINE
○	X-UTL-DRAIN
○	X-UTL-SHNT
○	OVERHEAD UTILITY LINE
○	SHAWEL
○	BRICK
○	BUILDING HATCH
○	CONCRETE
○	TILE
○	ASPHALT PAVEMENT
○	HANDICAP TACTILE STRIP

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CHECKED BY:	JS
DATE:	2/11/15
JOB NO.:	21151
SHEET NO.:	17/30

MAP OF TOPOGRAPHIC SURVEY  
FOR  
SRS ENGINEERING  
OR  
CUTLER RIDGE DRIVE / BEL AIRE DRIVE



LAND SURVEYOR AND MAPPERS  
3D LASER SCANNING  
UTILITY CORRELATION  
SURFACE UTILITY ENGINEERING  
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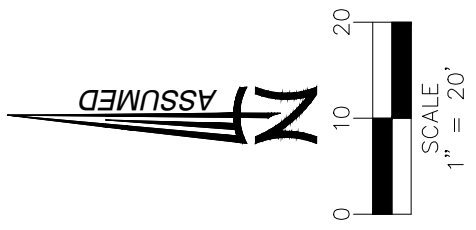




# MAP OF TOPOGRAPHIC SURVEY

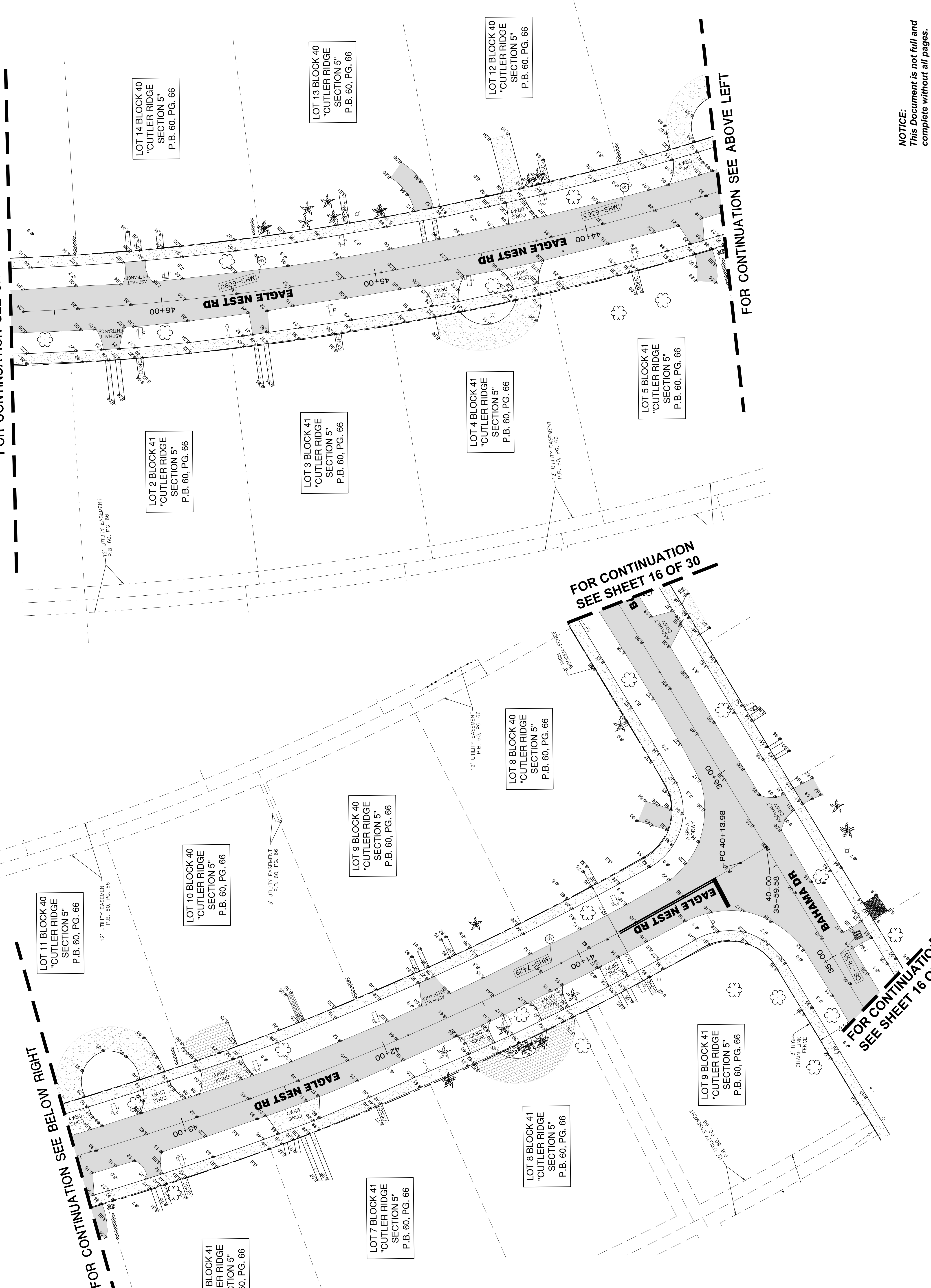
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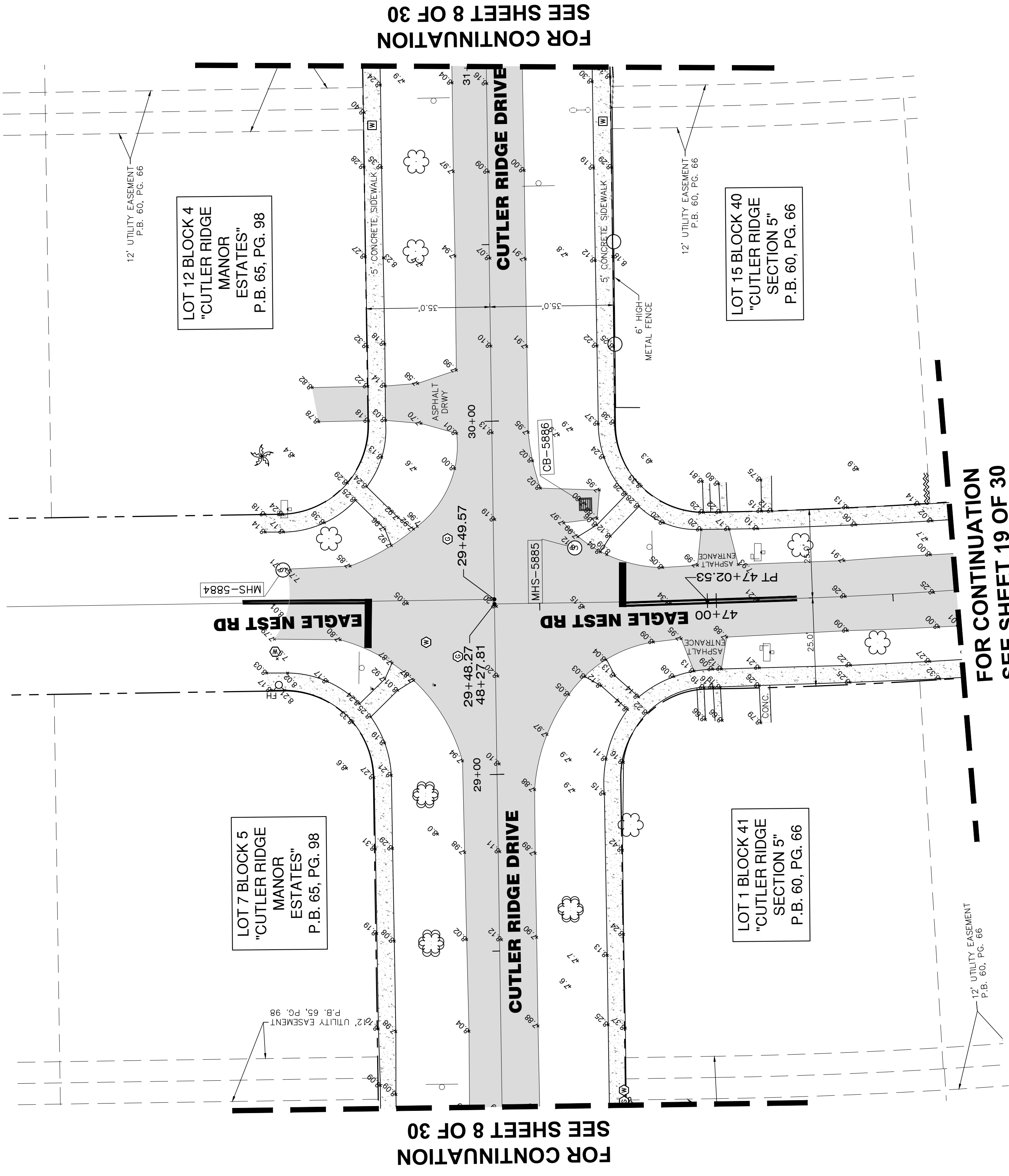
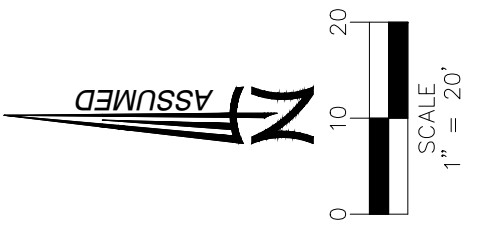
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SYMBOL	DESCRIPTION
○	FOUND IRON REBAR
●	FOUND IRON PIPE WITH CAP
—	PROPERTY LINE
R/W	RIGHT-OF-WAY
CS	CONCRETE
ST	STUCCO
N.G.V.D.	NATIONAL GEODETIC VERTICAL DATUM
PL	PLAY BOOK
PG	PAGE
F.N.D.	FOUND NAIL & DISK
S.L.P.	NUMBER OF PARKING SPACES
T.O.P.	TOP OF PIPE
S.W.K.	SIDEWALK
P.O.B.	POINT OF BEGINNING
N.T.S.	NOT TO SCALE
T.B.M.	TEMPORARY BENCH MARK
F.F.E.	FINISH FLOOR ELEVATION
S.I.R.	SET IRON REBAR
F.D.H.	FOUND DRILL HOLE
F.I.P.	FOUND IRON PIPE
F.I.R.	FOUND IRON REBAR
B.M.	BENCHMARK
E.E.	EXISTING ELEVATION
T	TREE
P.T.	PALM TREE
I.C.V.	IRRIGATION CONTROL VALVE
T.N.	TREE NUMBER
U.S.N.	UTILITY STRUCTURE NUMBER
C.B.	CATCH BASIN
E.U.B.	ELECTRIC UTILITY BOX
W.M.	WATER METER
W.C.O.	WATER CLEAN OUT
S.S.M.	STANDARD SENSER MANHOLE
S.S.W.	STANDARD SENSER W/ VALVE
M.U.	MANHOLE UNKOWN
G.T.M.	GREASE TRAP MANHOLE
F.C.	FIRE DEPT. CONNECTOR
G.M.	GAS METER
T.C.B.	TELECOMMUNICATIONS BOX
M.W.	MONITORING WELL
F.H.	FIRE HYDRANT
L.P.	LIGHT POST
B.F.P.	BACK-FLOW PREVENTER
G.	GUARDRAIL
A.	ANCHOR
P.	POST
S.	SION
M.	MALBOX
F.P.	FPL TRANSFORMER
S.A.	SIGNAL MAST ARM
I.B.	INTERCOM BOX
U.P.	WOOD UTILITY POLE
C.U.P.	CONCRETE UTILITY POLE
C.W.	CBS WALL
C.L.R.G.	CHAIN-LINK ROLLING GATE
C.L.S.G.	CHAIN-LINK SPRING GATE
F.O.	FENCE-OTHER
R.W.G.	IRON WING GATE
C.L.F.	CHAIN-LINK FENCE
C.L.S.G.	CHAIN-LINK SPRING GATE
P.L.	PROPERTY LINE
E.L.	EASEMENT LINE
X-UTL-DR	X-UTL-DRAIN
X-UTL-SANT	X-UTL-SANIT
O.U.L.	OVERHEAD UTILITY LINE
G.	GRAVEL
B.	BRICK
B.H.	BUILDING HATCH
C.	CONCRETE
T.	TILE
A.P.	ASPHALT PAVEMENT
H.F.S.	HANDICAP FACILE STRIP

# MAP OF TOPOGRAPHIC SURVEY



FOR CONTINUATION  
SEE SHEET 8 OF 30

FOR CONTINUATION  
SEE SHEET 8 OF 30

FOR CONTINUATION  
SEE SHEET 19 OF 30

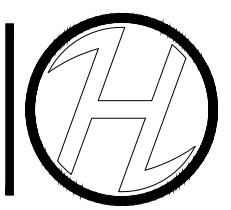
## LEGEND

SYMBOL	DESCRIPTION
●	FOUND IRON REBAR
○	FOUND IRON PIPE WITH CAP
○	PROPERTY LINE
R/W	RIGHT-OF-WAY
CB	CONCRETE BLOCK STUCCO
N.G.V.D.	NATIONAL GEODETIC VERTICAL DATUM
PB	PLAT BOOK
PG	PAGE
F.N.D.	FOUND NAIL & DISK
→	NUMBER OF PARKING SPACES
SL.P.	SET IRON PIPE
T.O.P.	TOP OF PIPE
SWK	SIDEWALK
P.O.B.	POINT OF BEGINNING
N.T.S.	NOT TO SCALE
T.B.M.	TEMPORARY BENCH MARK
F.F.E.	FINISH FLOOR ELEVATION
SL.R.	SET IRON REBAR
F.D.H.	FOUND DRILL HOLE
F.I.P.	FOUND IRON PIPE
F.I.R.	FOUND IRON REBAR
⊕	BENCHMARK
⊕	EXISTING ELEVATION
⊕	PALM TREE
⊕	IRRIGATION CONTROL VALVE
T1	TREE NUMBER

SYMBOL	DESCRIPTION
UTILITY STRUCTURE NUMBER	UTILITY STRUCTURE NUMBER
⊕	CATCH BASIN
⊕	ELECTRIC UTILITY BOX
⊕	WATER METER
⊕	WATER VALVE
⊕	SANITARY SEWER CLEAN OUT
⊕	SANITARY SEWER MANHOLE
⊕	SANITARY SEWER VALVE
⊕	MANHOLE UNKNOWN
⊕	DRAINAGE MANHOLE
⊕	GREASE TRAP MANHOLE
⊕	FIRE DEPT. CONNECTOR
⊕	GAS METER
⊕	TELECOMMUNICATIONS BOX
⊕	MONITORING WELL
⊕	FIRE HYDRANT
⊕	LIGHT POST
⊕	BACK-FLOW PREVENTER
⊕	DOT ANCHOR
⊕	POST
⊕	SIK
⊕	WALDOX
⊕	PFL TRANSFORMER
⊕	SPRINKLER ARM
⊕	CONCRETE UTILITY POLE
⊕	WOOD UTILITY POLE

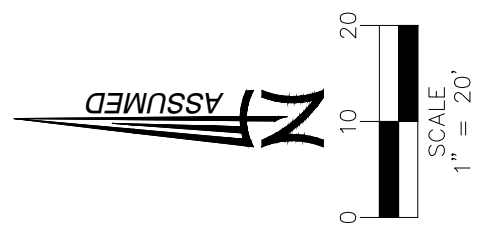
SYMBOL	DESCRIPTION
⊕	CEC WALL
⊕	CHAIN-LINK ROLLING GATE
⊕	CHAIN-LINK SWING GATE
⊕	FENCE OTHER
⊕	IRON WING GATE
⊕	CHAIN-LINK FENCE
⊕	CHAIN-LINK SWING GATE
⊕	FENCE OTHER
⊕	PROPERTY LINE
⊕	RIGHT-WAY LINE
⊕	EASEMENT LINE
⊕	X-UTIL-DRAIN
⊕	X-UTIL-SANT
⊕	OVERHEAD UTILITY LINE
⊕	GRAVEL
⊕	BRICK
⊕	BUILDING MATCH
⊕	CONCRETE
⊕	TILE
⊕	ASPHALT PAVEMENT
⊕	HANDICAP FACILITY STRIP

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# MAP OF TOPOGRAPHIC SURVEY



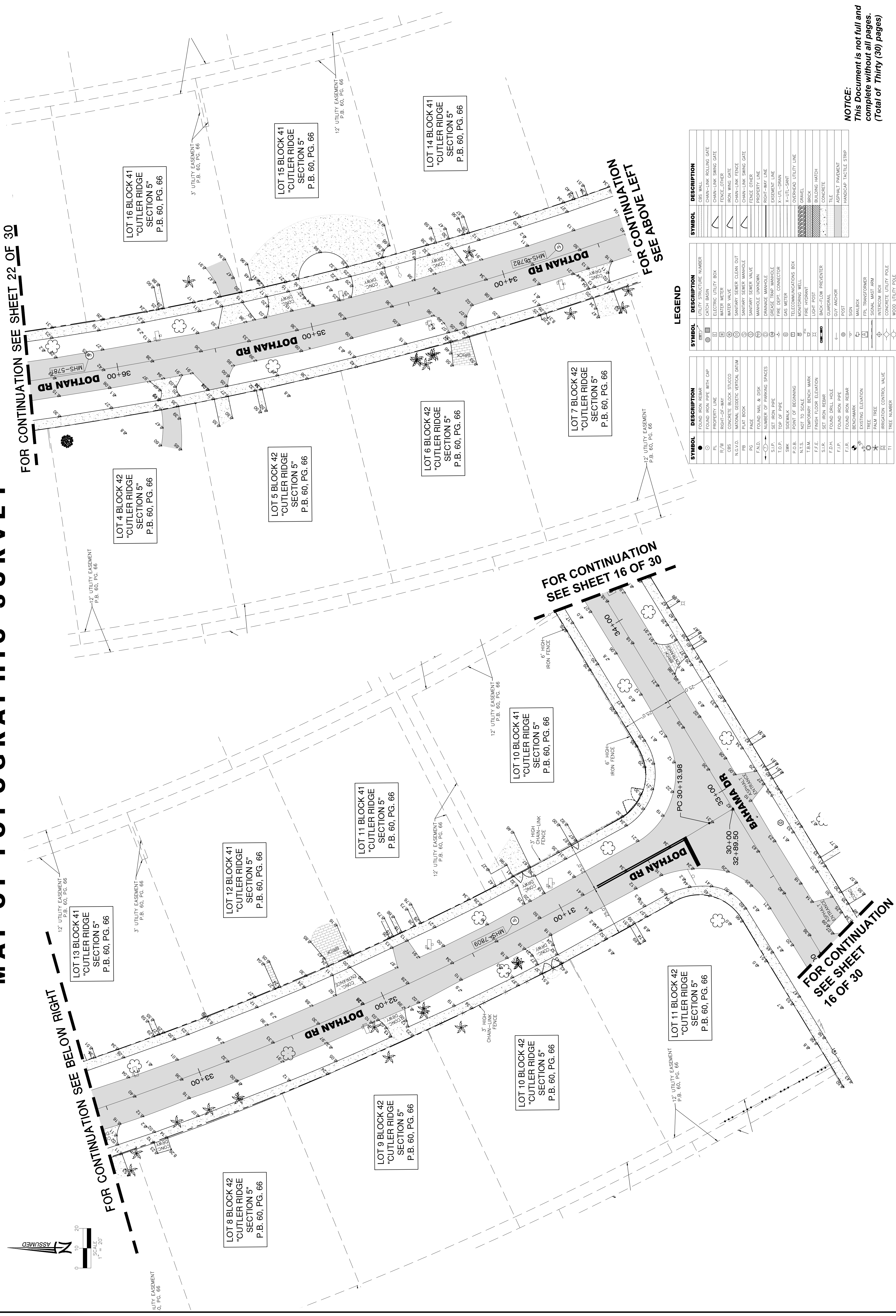
FOR CONTINUATION SEE SHEET 22 OF 30

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FOR CONTINUATION SEE SHEET 16 OF 30

FOR CONTINUATION SEE SHEET 16 OF 30

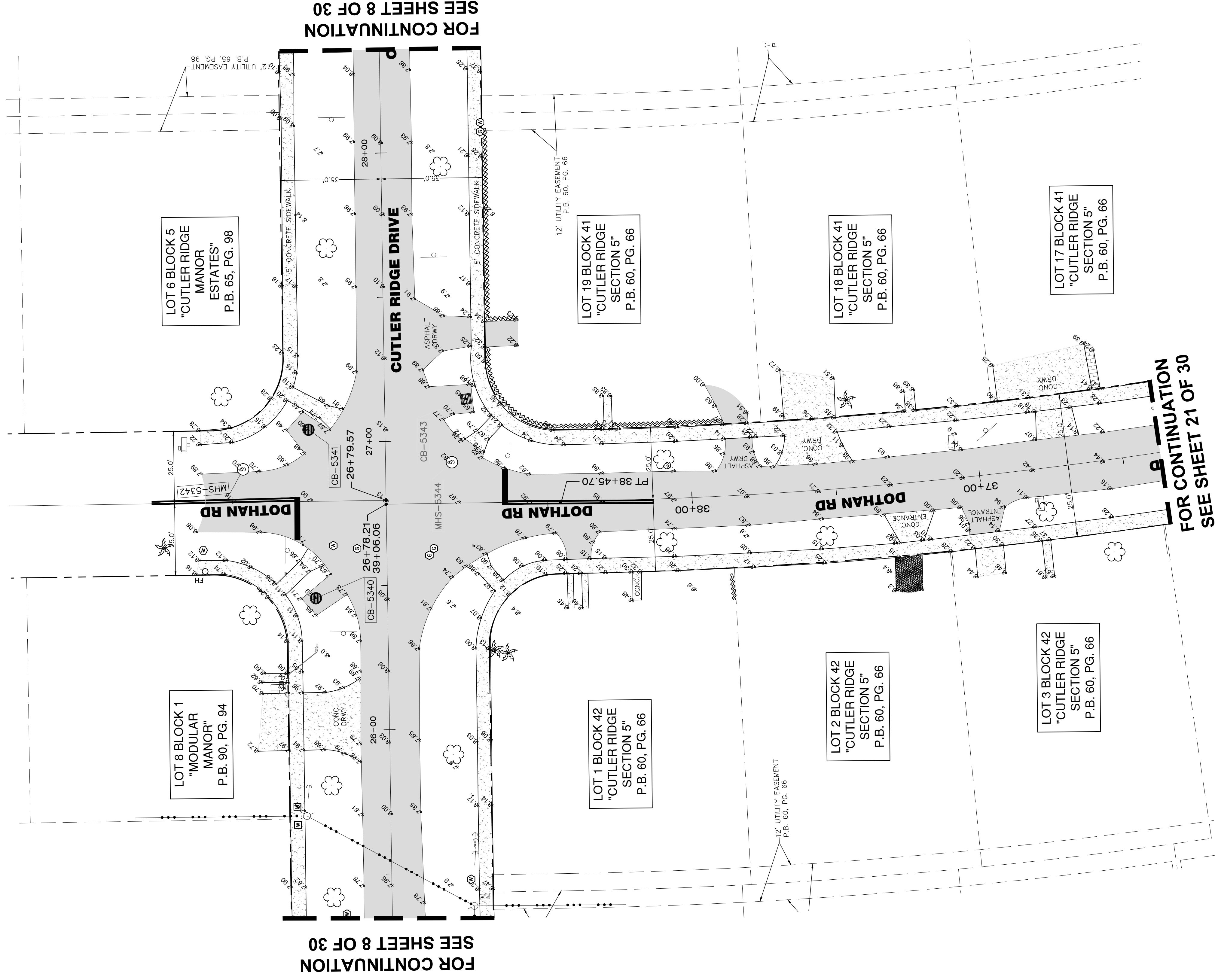
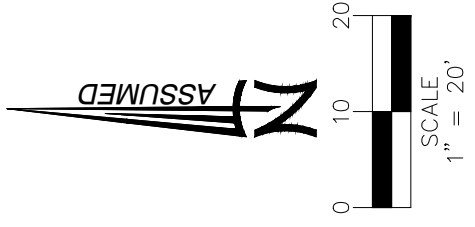
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SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
○	FOUND IRON REBAR	○	UTILITY STRUCTURE NUMBER	○	CBS WALL
●	FOUND IRON PIPE WITH CAP	□	CATCH BASIN	○	CHAIN-LINK ROLLING GATE
○	PROPERTY LINE	□	ELECTRIC UTILITY BOX	○	CHAIN-LINK SWING GATE
○	R/W	○	WATER METER	○	FENCE-OTHER
○	CONCRETE BLOCK STUCCO	○	SANITARY SEWER CLEAN OUT	○	IRON WING GATE
○	N.G.V.D.	○	SANITARY SEWER MANHOLE	○	CHAIN-LINK FENCE
○	PLAT BOOK	○	SANITARY SEWER VALVE	○	CHAIN-LINK SWING GATE
○	PAVE	○	MANHOLE UNKNOWN	○	FENCE-OTHER
○	FOUND NAIL & DISK	○	DRAINAGE MANHOLE	○	PROPERTY LINE
○	NUMBER OF PARKING SPACES	○	GREASE TRAP MANHOLE	○	RIGHT-WAY LINE
○	SET IRON PIPE	○	SEWER CONNECTOR	○	EASEMENT LINE
○	TOP OF PIPE	○	GAS METER	○	X-UTL-DRAIN
○	SIDEWALK	○	TELECOMMUNICATIONS BOX	○	X-UTL-SHUT
○	POINT OF BEGINNING	○	MONITORING WELL	○	OVERHEAD UTILITY LINE
○	NOT TO SCALE	○	FIRE HYDRANT	○	GRAVEL
○	TEMPORARY BENCH MARK	○	BACK-FLOW PREVENTER	○	BRICK
○	FIRST FLOOR ELEVATION	○	GUY ANCHOR	○	CONCRETE
○	SET IRON REBAR	○	POST	○	COURSE OF BRICK
○	FOUND DRILL HOLE	○	SON	○	TILE
○	FOUND IRON PIPE	○	MALEBOX	○	ASPHALT PAVEMENT
○	FOUND IRON REBAR	○	FPL TRANSFORMER	○	HANDICAP TACTILE STRIP
○	BENCHMARK	○	SIGNAL MAST ARM		
○	EXISTING ELEVATION	○	INTERCOM BOX		
○	TREE	○	CONCRETE UTILITY POLE		
○	IRON TREE	○	WOOD UTILITY POLE		
○	AMERICAN CONTROL VALVE				
○	TREE NUMBER				

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# MAP OF TOPOGRAPHIC SURVEY



MAP OF TOPOGRAPHIC SURVEY  
 OF  
 SRS ENGINEERING  
 CUTLER RIDGE DRIVE / BEL AIRE DRIVE



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SYMBOL	DESCRIPTION
—	CBS WALL
—	CHAIN-LINK ROLLING GATE
—	CHAIN-LINK SWING GATE
—	FENCE-OTHER
—	IRON WING GATE
—	CHAIN-LINK FENCE
—	CHAIN-LINK SWING GATE
—	FENCE OTHER
—	PROPERTY LINE
—	RIGHT-WAY LINE
—	EASEMENT LINE
—	X-UTIL-DRAIN
—	X-UTIL-SANIT
—	OVERHEAD UTILITY LINE
—	GRAVEL
—	BRICK
—	BUILDING HATCH
—	CONCRETE
—	TILE
—	ASPHALT PAVEMENT
—	HANDICAP TACTILE STRIP

SYMBOL	DESCRIPTION
—	UTILITY STRUCTURE NUMBER
—	CATCH BASIN
—	ELECTRIC UTILITY BOX
—	WATER METER
—	WATER VALVE
—	SANITARY SEWER CLEAN OUT
—	SANITARY SEWER MANHOLE
—	SANITARY SEWER VALVE
—	MANHOLE UNKOWN
—	DRAINAGE MANHOLE
—	GREASE TRAP MANHOLE
—	FIRE DEPT. CONNECTOR
—	GAS METER
—	TELECOMMUNICATIONS BOX
—	WATER TOWER WELL
—	FIRE TOWER
—	LIGHT POST
—	BACK-FLOW PREVENTER
—	CURBBOX
—	DOT ANCHOR
—	POST
—	SON
—	MALBOX
—	PPA TRANSFORMER
—	SIGNAL MAST ARM
—	INTERCOM BOX
—	CONCRETE UTILITY POLE
—	WOOD UTILITY POLE

SYMBOL	DESCRIPTION
—	FOUND IRON REBAR
—	FOUND IRON PIPE WITH CAP
—	PROPERTY LINE
—	R/W
—	CONCRETE BLOCK STUCCO
—	N.C.V.D.
—	NATIONAL GEODETIC VERTICAL DATUM
—	PLAT BOOK
—	PG
—	PHASE
—	F.N.D.
—	FOUND MAIL & DISK
—	NUMBER OF PARKING SPACES
—	S.I.P.
—	SET IRON PIPE
—	T.O.P.
—	TOP OF PIPE
—	SIDEWALK
—	P.O.B.
—	POINT OF BEGINNING
—	NOT TO SCALE
—	T.B.M.
—	TEMPORARY BENCH MARK
—	F.F.E.
—	FINISH FLOOR ELEVATION
—	S.I.R.
—	SET IRON REBAR
—	F.D.H.
—	FOUND DRILL HOLE
—	F.I.P.
—	FOUND IRON PIPE
—	F.I.R.
—	FOUND IRON REBAR
—	BENCHMARK
—	EXISTING ELEVATION
—	TREE
—	PALM TREE
—	IRRIGATION CONTROL VALVE
—	TREE NUMBER

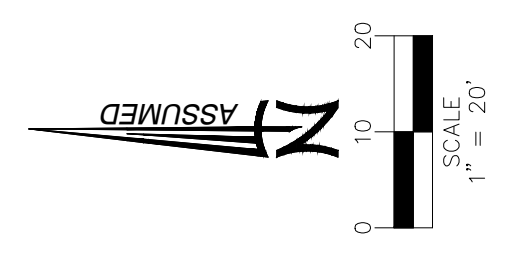
**LEGEND**

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# MAP OF TOPOGRAPHIC SURVEY



FOR CONTINUATION  
SEE SHEET 25 OF 30

FOR CONTINUATION  
SEE BELOW RIGHT

FOR CONTINUATION  
SEE SHEET 28 OF 30

FOR CONTINUATION  
SEE SHEET 23 OF 30

LOT 19 BLOCK 42  
"CUTLER RIDGE  
SECTION 5"  
P.B. 60, P.G. 66

LOT 18 BLOCK 42  
"CUTLER RIDGE  
SECTION 5"  
P.B. 60, P.G. 66

LOT 17 BLOCK 42  
"CUTLER RIDGE  
SECTION 5"  
P.B. 60, P.G. 66

LOT 15 BLOCK 42  
"CUTLER RIDGE  
SECTION 5"  
P.B. 60, P.G. 66

LOT 14 BLOCK 42  
"CUTLER RIDGE  
SECTION 5"  
P.B. 60, P.G. 66

LOT 13 BLOCK 42  
"CUTLER RIDGE  
SECTION 5"  
P.B. 60, P.G. 66

LOT 16 BLOCK 42  
"CUTLER RIDGE  
SECTION 5"  
P.B. 60, P.G. 66

LOT 1 BLOCK 42  
"CUTLER RIDGE  
SECTION 5"  
P.B. 60, P.G. 66

SYMBOL	DESCRIPTION
---	3" UTILITY EASEMENT
---	12" UTILITY EASEMENT
---	PROPERTY LINE
---	RIGHT-OF-WAY
---	EASEMENT LINE
---	X-UTIL-DRAIN
---	X-UTIL-SANIT
---	OVERHEAD UTILITY LINE
---	GRAVEL
---	BRICK
---	BUILDING MATCH
---	CONCRETE
---	TILE
---	ASPHALT PAVEMENT
---	HANDICAP TACTILE STRIP

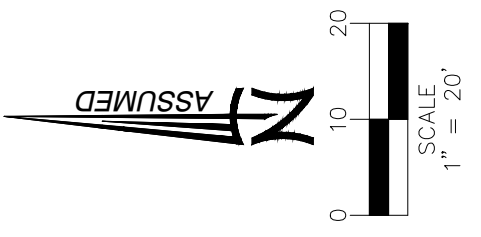
SYMBOL	DESCRIPTION
---	UTILITY STRUCTURE NUMBER
---	CATCH BASIN
---	ELECTRIC UTILITY BOX
---	CHURN-LINK SWING GATE
---	CHAIN-LINK SWING GATE
---	FENCE OTHER
---	WATER VALVE
---	SANITARY SEWER CLEAN OUT
---	SANITARY SEWER MANHOLE
---	SANITARY SEWER VALVE
---	MANHOLE UNKNOWN
---	MANHOLE
---	GREASE TRAP MANHOLE
---	FIRE DEPT. CONNECTOR
---	GAS METER
---	TELECOMMUNICATIONS BOX
---	MONITORING WELL
---	FIRE HYDRANT
---	LIGHT POST
---	BACK-FLOW PREVENTER
---	GUARDRAIL
---	GUY ANCHOR
---	POST
---	SION
---	MAILBOX
---	PFL TRANSFORMER
---	SIGNAL WAST ARM
---	INTERCOM BOX
---	CONCRETE UTILITY POLE
---	WOOD UTILITY POLE

SYMBOL	DESCRIPTION
---	FOUND IRON REBAR
---	FOUND IRON PIPE WITH CAP
---	PROPERTY LINE
---	RIGHT-OF-WAY
---	CONCRETE BLOCK STUCCO
---	CONCRETE BLOCK
---	PALE BLOCK
---	FACE
---	FOUND NAIL & DISK
---	NUMBER OF PARKING SPACES
---	SLIP
---	TOP OF PIPE
---	SIDEWALK
---	POINT OF BEGINNING
---	NOT TO SCALE
---	TEMPORARY BENCH MARK
---	FINISH FLOOR ELEVATION
---	SET IRON REBAR
---	FOUND DRILL HOLE
---	FOUND IRON PIPE
---	FOUND IRON REBAR
---	BENCHMARK
---	EXISTING ELEVATION
---	TREE
---	PALM TREE
---	IRRIGATION CONTROL VALVE
---	TREE NUMBER

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# MAP OF TOPOGRAPHIC SURVEY



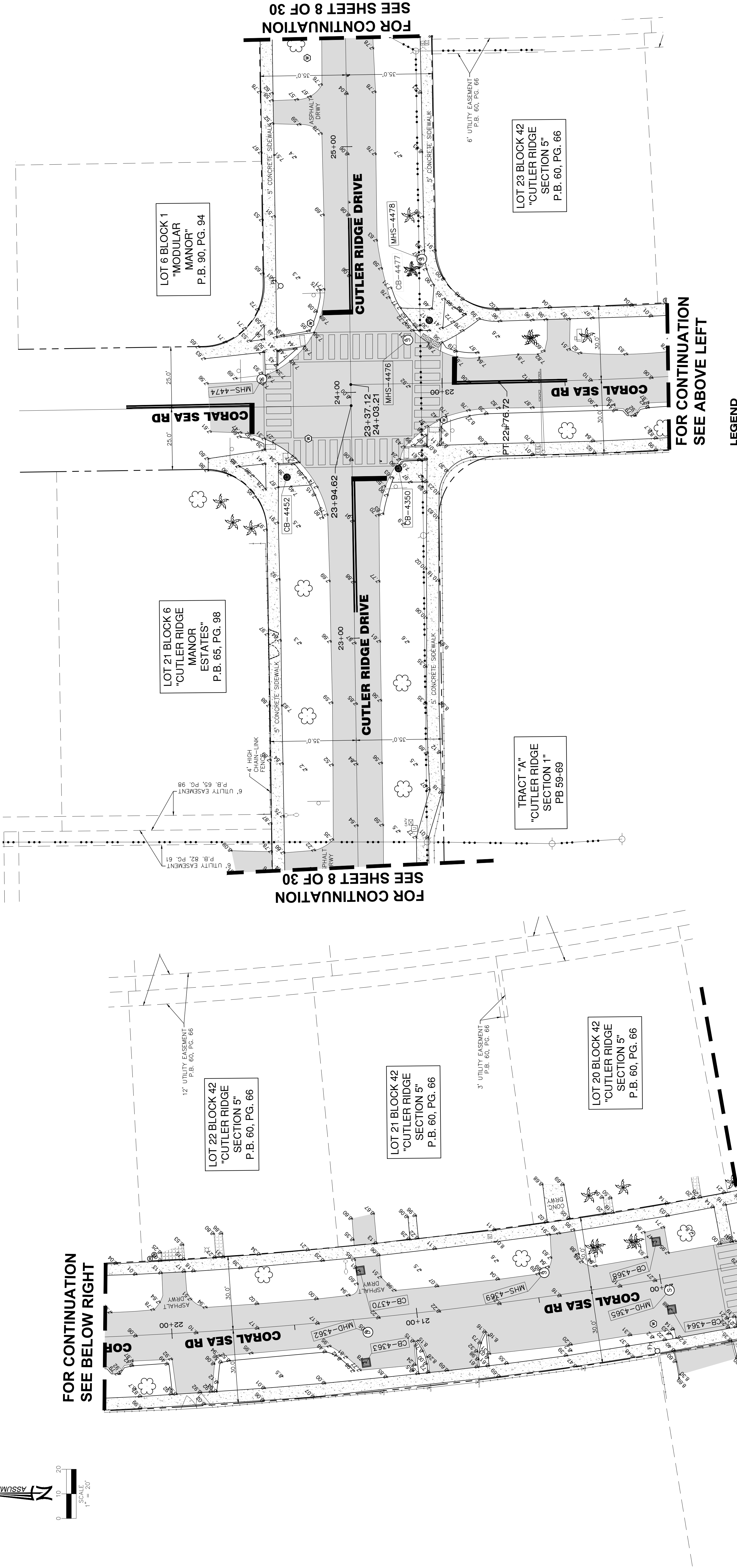
FOR CONTINUATION  
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FOR CONTINUATION  
SEE SHEET 8 OF 30

FOR CONTINUATION  
SEE SHEET 8 OF 30

FOR CONTINUATION  
SEE SHEET 8 OF 30

FOR CONTINUATION  
SEE SHEET 24 OF 30



## LEGEND

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
●	FOUND IRON REBAR	○	UTILITY STRUCTURE NUMBER	—	CSS WALL
○	FOUND IRON PIPE WITH CAP	□	CATCH BASIN	—	CHAIN-LINK ROLLING GATE
○	PROPERTY LINE	□	ELECTRIC UTILITY BOX	—	CHAIN-LINK SWING GATE
R/W	RIGHT-OF-WAY	□	WATER METER	—	FENCE-OTHER
CB	CONCRETE BLOCK STUCCO	□	WATER VALVE	—	IRON WING GATE
N.G.V.D.	NATIONAL GEODETIC VERTICAL DATUM	○	SANITARY SEWER CLEAN OUT	—	CHAIN-LINK FENCE
PB	PLAT BOOK	○	SANITARY SEWER MANHOLE	—	CHAIN-LINK SWING GATE
PG	PAGE	○	SANITARY SEWER VALVE	—	FENCE OTHER
F.N.D.	FOUND NAIL & DISK	○	MANHOLE UNKNOWN	—	PROPERTY LINE
→	NUMBER OF PARKING SPACES	○	DRAINAGE MANHOLE	—	RIGHT-WAY LINE
S.I.P.	SET IRON PIPE	○	GREASE TRAP MANHOLE	—	EASEMENT LINE
T.O.P.	TOP OF PIPE	○	FIRE DEPT. CONNECTOR	—	X-UTL-DRAIN
SWK	SIDEWALK	○	WATER METER	—	X-UTL-SANT
P.O.B.	POINT OF BEGINNING	○	WATER METER CONNECTIONS BOX	—	OVERHEAD UTILITY LINE
N.T.S.	NOT TO SCALE	○	MONITORING WELL	—	BRICK
T.B.M.	TEMPORARY BENCH MARK	○	FIRE HYDRANT	—	BUILDING HATCH
F.F.E.	FINISH FLOOR ELEVATION	○	BACK-FLOW PREVENTER	—	CONCRETE
S.I.R.	SET IRON REBAR	○	GUY ANCHOR	—	ASPHALT PAVEMENT
F.D.H.	FOUND DRILL HOLE	○	POST	—	HANDICAP TACTILE STRIP
F.I.P.	FOUND IRON PIPE	○	SCON	—	
F.J.R.	FOUND IRON REBAR	○	MALBOX	—	
⬆	BENCHMARK	○	FPL TRANSFORMER	—	
⬆	EXISTING ELEVATION	○	SIGNAL MAST ARM	—	
⬆	PALM TREE	○	INTERCOM BOX	—	
⬆	IRRIGATION CONTROL VALVE	○	CONCRETE UTILITY POLE	—	
11	TREE NUMBER	○	WOOD UTILITY POLE	—	

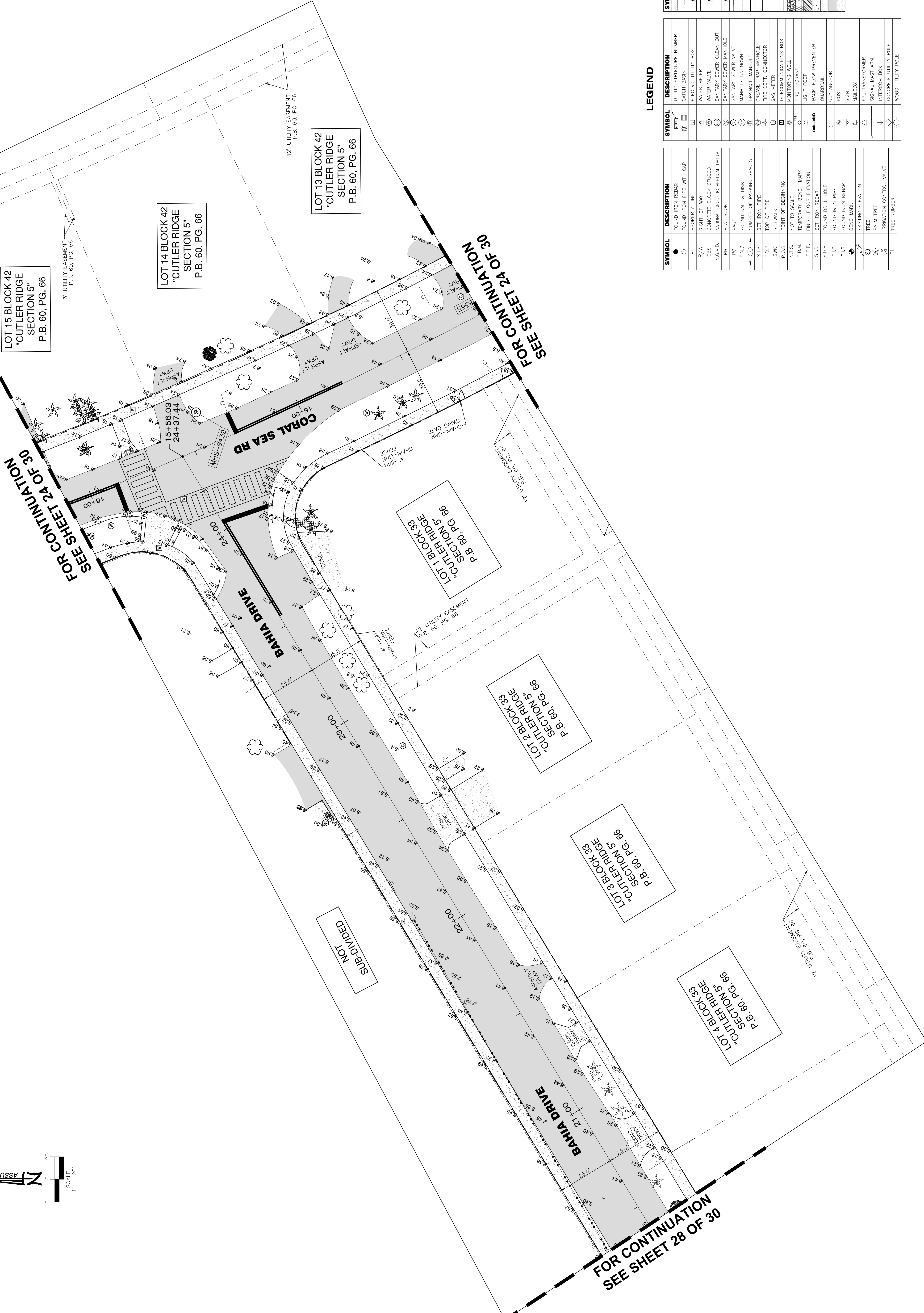
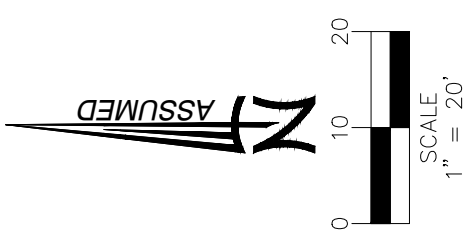
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# MAP OF TOPOGRAPHIC SURVEY



LOT 15 BLOCK 42  
"CUTLER RIDGE  
SECTION 5"  
P.B. 60, PG. 66

LOT 14 BLOCK 42  
"CUTLER RIDGE  
SECTION 5"  
P.B. 60, PG. 66

LOT 13 BLOCK 42  
"CUTLER RIDGE  
SECTION 5"  
P.B. 60, PG. 66

LOT 1 BLOCK 33  
"CUTLER RIDGE  
SECTION 5"  
P.B. 60, PG. 66

LOT 2 BLOCK 33  
"CUTLER RIDGE  
SECTION 5"  
P.B. 60, PG. 66

LOT 3 BLOCK 33  
"CUTLER RIDGE  
SECTION 5"  
P.B. 60, PG. 66

LOT 4 BLOCK 33  
"CUTLER RIDGE  
SECTION 5"  
P.B. 60, PG. 66

## LEGEND

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
○	FOUND IRON REBAR	□	UTILITY STRUCTURE NUMBER	▬	CEB WALL
●	FOUND IRON PIPE WITH CAP	▭	CATCH BASIN	▬	CHAIN-LINK ROLLING GATE
PL	PROPERTY LINE	⊞	ELECTRIC UTILITY BOX	▬	CHAIN-LINK SWING GATE
R/W	RIGHT-OF-WAY	⊞	WATER METER	▬	FENCE OTHER
CEB	CONCRETE BLOCK STUCCO	⊞	WATER VALVE	▬	IRON WING GATE
N.C.V.D.	NATURAL GEODETIC VERTICAL DATUM	⊞	SANITARY SEWER CLEAN OUT	▬	CHAIN-LINK FENCE
PS	PLAT BOOK	⊞	SANITARY SEWER MANHOLE	▬	CHAIN-LINK SWING GATE
FDL	FOUND WALL & DISK	⊞	WASTEWATER MANHOLE	▬	FENCE OTHER
→	NUMBER OF PARKING SPACES	⊞	GREASE TRAP MANHOLE	▬	PROPERTY LINE
⊞	SET IRON PIPE	⊞	FIRE DEPT. CONNECTOR	▬	EASEMENT LINE
⊞	SET IRON PIPE	⊞	GAS METER	▬	X-UTL-DRAIN
⊞	SET IRON PIPE	⊞	TELECOMMUNICATIONS BOX	▬	OVERHEAD UTILITY LINE
⊞	POINT OF BEGINNING	⊞	MONITORING WELL	▬	GRAVEL
N.T.S.	NOT TO SCALE	⊞	FIRE HYDRANT	▬	BRICK
T.B.M.	TEMPORARY BENCH MARK	⊞	BACK-FLOW PREVENTER	▬	BUILDING MATCH
F.F.E.	FINISH FLOOR ELEVATION	⊞	GUARDRAIL	▬	CONCRETE
S.U.R.	SET IRON REBAR	⊞	POST	▬	TILE
F.O.H.	FOUND DRILL HOLE	⊞	GUARDRAIL	▬	ASPHALT PAVEMENT
F.I.P.	FOUND IRON PIPE	⊞	POST	▬	HANDICAP TACTILE STRIP
⊞	FOUND IRON REBAR	⊞	MAILBOX	▬	
⊞	BENCHMARK	⊞	FPL TRANSFORMER	▬	
⊞	EXISTING ELEVATION	⊞	SIGNAL MAST ARM	▬	
⊞	PALM TREE	⊞	INTERCOM BOX	▬	
⊞	IRRIGATION CONTROL VALVE	⊞	CONCRETE UTILITY POLE	▬	
T1	TREE NUMBER	⊞	WOOD UTILITY POLE	▬	

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# MAP OF TOPOGRAPHIC SURVEY

316	MHS	5.75	BOTTOM	5.70	2.05	Ceramic 6'
			NORTHWEST	5.70	2.05	PVC 10'
			SOUTHWEST	3.80	1.95	PVC 10'
501	CB	4.96	BOTTOM	5.10	-0.14	PVC 15'
			NORTH	3.00	1.96	PVC 15'
			NORTHEAST	2.80	2.16	PVC 15'
502	CB	4.66	BOTTOM	3.10	1.56	Aluminum 18'
			NORTHWEST	3.00	1.66	Aluminum 18'
			SOUTH	2.90	1.76	
497	MHS	5.61	BOTTOM	4.80	0.81	
			NORTHEAST	4.95	0.66	
			SOUTHEAST	4.85	0.76	
			SOUTHWEST	4.80	0.81	
500	CB	5.01	BOTTOM	5.10	-0.09	PVC 10'
			SOUTHWEST	2.80	2.21	
452	MHS	5.16	BOTTOM	4.00	1.16	PVC 10'
			NORTH	4.05	1.11	PVC 10'
			NORTHEAST	4.00	1.16	PVC 10'
488	MHS	5.75	BOTTOM	5.80	-0.05	PVC 10'
			NORTHWEST	5.80	-0.05	PVC 10'
943	MHS	5.72	BOTTOM	3.25	2.47	Ceramic 6'
			NORTH	3.30	2.42	Ceramic 6'
			SOUTH	3.25	2.47	Ceramic 6'
			EAST	3.25	2.47	Ceramic 6'
			WEST	3.50	2.22	PVC 10'
1107	CB	5.30	BOTTOM	5.00	0.30	PVC 15'
			SOUTHEAST	3.00	2.30	
1108	CB	5.04	BOTTOM	7.40	-2.36	PVC 36'
			NORTHWEST	5.50	-0.46	PVC 36'
			NORTHWEST	4.00	1.04	PVC 15'
1489	MHD	6.00	BOTTOM	7.50	-1.50	PVC 15'
			EAST	3.70	2.30	PVC 15'
			SOUTH	5.55	0.45	PVC 36'
1490	MHS	6.29	BOTTOM	4.05	2.24	
			NORTH	4.10	2.19	PVC 10'
			EAST	4.05	2.24	Ceramic 10'
1491	MHS	6.19	BOTTOM	3.50	2.69	Ceramic 6'
			NORTH	3.50	2.69	Ceramic 6'
			EAST	3.50	2.69	Ceramic 6'
			SOUTH	3.60	2.59	Ceramic 6'
1104	CB	5.26	BOTTOM	12.00	-6.74	
1105	CB	5.33	BOTTOM	2.80	2.53	PVC 15'
			NORTHWEST	2.80	2.53	PVC 15'
			WEST		5.33	Baffle
1111	MHD	5.61	BOTTOM	7.40	-1.79	PVC 36'
			NORTHWEST	5.70	-0.09	PVC 15'
			SOUTHEAST	3.00	2.61	
1110	MHS	5.79	BOTTOM	4.90	0.89	PVC 10'
			NORTHWEST	4.90	0.89	PVC 10'
			SOUTHEAST	6.60	-0.81	PVC 10'
			SOUTHWEST	6.55	-0.76	PVC 10'
1333	MHS	6.03	BOTTOM	3.60	2.43	Ceramic 6'
			NORTHWEST	3.60	2.38	PVC 8'
			NORTHWEST	3.90	2.13	PVC 8'
			SOUTHEAST	3.65	2.38	Ceramic 6'
			SOUTHWEST	3.60	2.43	Ceramic 6'
1106	CB	5.10	BOTTOM	7.10	-2.00	PVC 15'
			NORTH	3.40	1.70	PVC 36'
			SOUTHWEST	5.40	-0.30	PVC 36'
1983	MHS	6.12	BOTTOM	3.60	2.52	Ceramic 6'
			NORTHWEST	3.60	2.52	Ceramic 6'
			SOUTHWEST	3.80	2.32	Ceramic 10'
1492	CB	5.22	BOTTOM	5.00	0.22	PVC 15'
			NORTH	2.60	2.62	PVC 15'
			WEST	3.45	1.77	PVC 15'
1493	CB	5.63	BOTTOM	5.25	0.38	PVC 15'
			SOUTH	3.30	2.33	
1499	MHS	6.05	BOTTOM	3.15	2.90	Ceramic 10'
			NORTH	3.50	2.55	Ceramic 6'
			EAST	3.15	2.90	Ceramic 6'
			SOUTHEAST	3.20	2.85	Ceramic 6'
			WEST	3.20	2.85	Ceramic 6'
1564	CB	5.15	BOTTOM	5.15	0.00	Aluminum 15'
			WEST	4.15	1.00	

1565	CB	5.36	BOTTOM	4.30	1.06	Aluminum 15'
			EAST	4.40	0.96	Aluminum 15'
			WEST	4.30	1.06	Aluminum 15'
1566	MHS	5.99	BOTTOM	4.05	1.94	PVC 10'
			NORTH	4.10	1.89	Ceramic 10'
			EAST	4.05	1.94	Ceramic 10'
			SOUTH	4.05	1.94	Ceramic 10'
1959	MHS	5.73	BOTTOM	4.75	0.98	Ceramic 10'
			NORTH	4.85	0.88	Ceramic 10'
			EAST	4.80	0.93	Ceramic 10'
			SOUTH	4.75	0.98	Ceramic 10'
1961	CB	4.99	BOTTOM	2.80	2.19	Aluminum 15'
			NORTH	2.80	2.19	Aluminum 15'
			EAST	2.75	2.24	Aluminum 15'
1962	CB	4.93	BOTTOM	2.40	2.53	Aluminum 15'
			WEST	2.40	2.53	Aluminum 15'
1963	CB	4.70	BOTTOM	3.10	1.60	Aluminum 15'
			WEST	3.10	1.60	Aluminum 15'
1960	CB	4.93	BOTTOM	7.70	-2.77	PVC 18'
			WEST	4.00	0.93	Aluminum 15'
			EAST	3.40	1.53	Aluminum 15'
			SOUTH	3.20	1.73	Aluminum 15'
3446	MHS	6.22	BOTTOM	4.50	1.72	Ceramic 10'
			NORTH	6.40	-0.18	Ceramic 8'
			EAST	4.50	1.72	Ceramic 8'
			SOUTH	6.00	0.22	Ceramic 10'
3445	MHD	6.11	BOTTOM	8.20	-2.09	PVC 18'
			NORTH	5.70	0.41	PVC 18'
			EAST	4.00	2.11	PVC 18'
			SOUTH	6.30	-0.19	PVC 18'
			WEST	4.80	1.31	PVC 18'
3444	CB	5.93	BOTTOM	9.80	-3.87	Baffle
			NORTH	4.00	1.93	Baffle
			SOUTH	2.60	3.33	Baffle
3443	CB	5.57	BOTTOM	8.60	-3.03	
3442	CB	5.91	BOTTOM	8.40	-2.49	Baffle
			SOUTHEAST	2.00	3.91	
4014	CB	5.52	BOTTOM	8.70	-3.18	PVC 18'
			NORTH	6.00	-0.48	
4015	CB	5.20	BOTTOM	8.60	-3.40	Baffle
			WEST	2.60	2.60	
4017	MHS	5.86	BOTTOM	8.40	-2.54	Ceramic 10'
			NORTHWEST	8.90	-3.04	Ceramic 10'
			SOUTHEAST	8.40	-2.54	Ceramic 10'
			SOUTHWEST	9.20	-3.34	Ceramic 10'
1949	MHS	5.77	BOTTOM	3.50	2.27	Ceramic 10'
			EAST	4.15	1.62	Ceramic 6'
			SOUTH	3.50	2.27	Ceramic 10'
			WEST	4.20	1.57	Ceramic 10'
2311	MHS	6.33	BOTTOM	3.65	2.68	Ceramic 10'
			WEST	3.65	2.68	
2626	MHS	7.21	BOTTOM	3.35	3.86	Ceramic 12'
			EAST	3.40	3.81	Ceramic 10'
			SOUTH	3.35	3.86	Ceramic 10'
2625	MH	7.22	BOTTOM	3.45	3.77	Ceramic 10'
			EAST	3.45	3.77	Ceramic 10'
			WEST	3.50	3.72	Ceramic 12'
2651	CB	6.77	BOTTOM	4.70	2.07	PVC 18'
			WEST	2.90	3.87	
2627	CB	6.80	BOTTOM	10.00	-3.20	PVC 18'
			WEST	3.50	3.30	
2628	MHD	7.31	BOTTOM	8.70	-1.99	PVC 18'
			EAST	3.80	3.51	PVC 18'
			SOUTH	4.30	3.01	PVC 18'
2715	MHS	7.13	BOTTOM	5.10	2.03	Ceramic 10'
			NORTH	5.70	1.43	Ceramic 10'
			EAST	5.10	2.03	Ceramic 10'
			WEST	5.60	1.53	Ceramic 10'
2989	CB	6.88	BOTTOM	7.40	-0.52	PVC 18'
			EAST	4.90	1.98	
2990	CB	6.71	BOTTOM	8.70	-1.99	PVC 18'
			SOUTH	5.10	1.61	
2991	CB	6.88	BOTTOM	10.00	-3.12	PVC 18'
			NORTH	6.10	0.78	

2992	MHD	7.16	BOTTOM	8.55	-1.39	PVC 18'
			NORTH	5.55	1.61	PVC 18'
			EAST	5.00	2.16	PVC 18'
			SOUTH	6.50	0.66	PVC 18'
			WEST	5.25	1.91	PVC 18'
2993	MHS	7.25	BOTTOM	5.70	1.55	Ceramic 10'
			NORTH	6.10	1.15	Ceramic 6'
			EAST	5.70	1.55	Ceramic 6'
			SOUTH	6.00	1.25	Ceramic 10'
3111	MHS	8.09	BOTTOM	4.30	3.79	Ceramic 6'
			EAST	4.30	3.79	Ceramic 6'
			SOUTHEAST	4.30	3.79	Ceramic 6'
			NORTH	4.65	3.44	Ceramic 10'
3639	MHS	7.09	BOTTOM	4.00	3.09	Ceramic 6'
			NORTHWEST	4.05	3.04	Ceramic 6'
			EAST	4.05	3.04	Ceramic 6'
			SOUTHEAST	4.00	3.09	Ceramic 6'
			WEST	4.35	2.74	Ceramic 10'
3900	MHS	6.18	BOTTOM	7.30	-1.12	Ceramic 10'
			NORTH	7.50	-1.32	Ceramic 10'
			SOUTH	7.30	-1.12	Ceramic 10'
3925	MHS	5.84	BOTTOM	7.60	-1.76	Ceramic 10'
			NORTH	7.70	-1.86	Ceramic 10'
			SOUTH	7.60	-1.76	Ceramic 10'
4973	MHS	8.31	BOTTOM	5.00	3.31	Ceramic 10'
			EAST	5.90	2.41	Ceramic 8'
			SOUTH	5.00	3.31	Ceramic 10'
			WEST	5.05	3.26	Ceramic 10'
4897	MHD	8.14	BOTTOM	7.80	0.34	Baffle
			EAST	2.50	5.64	PVC 18'
			SOUTH	5.20	2.94	PVC 18'
			WEST	2.70	5.44	Baffle
4896	CB	7.57	BOTTOM	3.90	3.67	PVC 15'
			NORTH	4.70	2.87	PVC 15'
			WEST	3.90	3.67	Conc. 15'
4898	MHD	8.16	BOTTOM	7.35	0.81	Baffle
			EAST	2.00	6.16	PVC 18'
			SOUTH	4.90	3.26	PVC 18'
			WEST	2.10	6.06	Baffle
4899	CB	7.59	BOTTOM	7.80	-0.21	PVC 15'
			NORTH	4.70	2.89	PVC 15'
			EAST	3.50	4.09	Conc. 15'
4901	MHD	8.08	BOTTOM	7.60	0.48	Baffle
			EAST	2.40	5.68	PVC 15'
			SOUTH	4.10	3.98	PVC 15'
			WEST	2.35	5.73	Baffle
4900	CB	7.69	BOTTOM	5.30	2.39	PVC 15'
			NORTH	2.80	4.89	
4337	MHS	7.52	BOTTOM	4.00	3.52	Ceramic 10'
			NORTHWEST	4.20	3.32	Ceramic 10'
			NORTHWEST	4.00	3.52	Ceramic 10'
4336	MHS	6.59	BOTTOM	4.85	1.74	Ceramic 10'
			SOUTHWEST	4.90	1.69	Ceramic 10'
			SOUTHWEST	4.85	1.74	Ceramic 10'
4338	CB	7.05	BOTTOM	5.30	1.75	Conc. 15'
			NORTHWEST	4.90	2.15	
4350	CB	6.89	BOTTOM	13.00	-6.11	
4452	CB	6.38	BOTTOM	14.00	-7.62	
4474	MHS	7.54	BOTTOM	5.55	1.99	Ceramic 10'
			SOUTHWEST	5.90	1.64	Ceramic 12'
			NORTHWEST	5.55	1.99	
4476	MHS	7.71	BOTTOM		7.71	Couldn't open
4478	MHS	7.87	BOTTOM		7.87	
4370	CB	7.50	BOTTOM	5.60	1.90	TRENCH
4362	MHD	8.04	BOTTOM	7.70	0.34	Baffle
			SOUTHWEST	2.40	5.64	PVC 15'
			SOUTHWEST	4.15	3.89	
4363	CB	7.78	BOTTOM	5.50	2.28	PVC 15'
			NORTHWEST	2.70	5.08	
4368	CB	7.47	BOTTOM	5.00	2.47	PVC 15'
			SOUTHWEST	3.40	4.07	

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# MAP OF TOPOGRAPHIC SURVEY

MAP OF TOPOGRAPHIC SURVEY  
FOR  
SRS ENGINEERING  
OF  
CUTLER RIDGE DRIVE / BEL AIRE DRIVE



LAND SURVEYOR AND MAPPERS  
3D LASER SCANNING  
UTILITY COORDINATION  
SURFACE UTILITY ENGINEERING  
1965 NW 88th Court, Suite 101 - Doral, FL 33122 - P: +1(305)266-1188 - F: +1(305)207-8845 - W: www.hadonne.com

REVISIONS

10	
9	
8	
7	
6	
5	

FILE  
DRAWN BY: MM  
TECH BY: RI  
CHECKED BY: JS  
JOB NO.: 21151

30/30

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# MAP OF TOPOGRAPHIC SURVEY

LAND SURVEYOR AND MAPPERS  
3D LASER SCANNING  
UTILITY COORDINATION  
SUBSURFACE UTILITY ENGINEERING



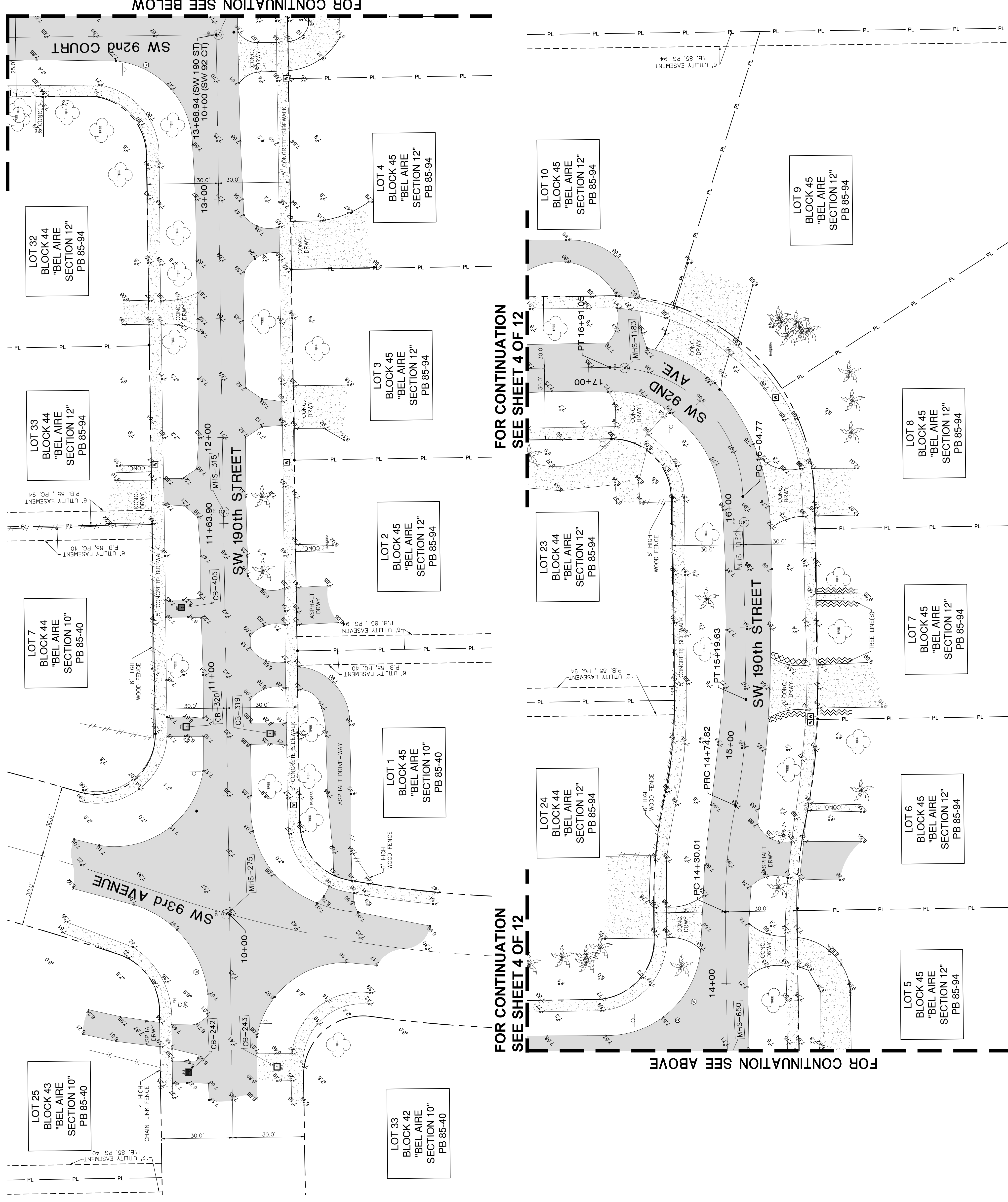
MAP OF TOPOGRAPHIC SURVEY  
SRS ENGINEERING  
SW 90th AVENUE & SW 187th TERRACE

REV	DATE	DESCRIPTION
10		
9		
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6		

FILE	MM	RI	JS	21151	2/12
DRAWN BY:	MM	TECH BY:	RI	DATE:	21151
PROJECT NO.:	MM	DATE:	JS		



SYMBOL	DESCRIPTION
○	FOUND IRON REBAR
○	FOUND IRON PIPE WITH CAP
○	PROPERTY LINE
—	RIGHT-OF-WAY
—	CONCRETE BLOCK STUCCO
—	N.C.V.D. NATIONAL GEODETIC VERTICAL DATUM
—	PLAT BOOK
—	PAGE
—	FOUND NAIL & DISK
—	NUMBER OF PARKING SPACES
—	SET IRON PIPE
—	CONCRETE PIPE
—	POINT OF BEGINNING
—	N.T.S. NOT TO SCALE
—	TEMPORARY BENCH MARK
—	F.F.E. FINISH FLOOR ELEVATION
—	S.I.R. SET IRON REBAR
—	F.D.H. FOUND DRILL HOLE
—	F.I.P. FOUND IRON PIPE
—	F.I.R. FOUND IRON REBAR
—	BENCHMARK
—	EXISTING ELEVATION
—	TREE
—	PALM TREE
—	IRRIGATION CONTROL VALVE
—	TREE NUMBER
—	UTILITY STRUCTURE NUMBER
—	CATCH BASIN
—	ELECTRIC UTILITY BOX
—	WATER METER
—	WATER VALVE
—	SANITARY SEWER CLEAN OUT
—	SANITARY SEWER MANHOLE
—	SANITARY SEWER VALVE
—	MANHOLE UNDOWN
—	DRAINAGE MANHOLE
—	GREASE TRAP MANHOLE
—	FIRE DEPT. CONNECTOR
—	GAS METER
—	TELECOMMUNICATIONS BOX
—	MONITORING WELL
—	FIRE HYDRANT
—	BOUY FLOOR PREVENTER
—	BOUY FLOOR PREVENTER
—	POST
—	ANCHOR
—	SOIL
—	MALBOX
—	F.P. TRANSFORMER
—	SIGNAL MAST ARM
—	INTERCOM BOX
—	CONCRETE UTILITY POLE
—	WOOD UTILITY POLE
—	CBIS WALL
—	CHAIN-LINK ROLLING GATE
—	CHAIN-LINK SWING GATE
—	FENCE-OTHER
—	IRON WING GATE
—	CHAIN-LINK FENCE
—	CHAIN-LINK SWING GATE
—	FENCE-OTHER
—	PROPERTY LINE
—	RIGHT-WAY LINE
—	EASEMENT LINE
—	X-UTL-DRAWN
—	X-UTL-SANT
—	OVERHEAD UTILITY LINE
—	GRAVEL
—	BRICK
—	BUILDING HATCH
—	CONCRETE
—	TILE
—	ASPHALT PAVEMENT
—	HANDICAP TACTILE STRIP



FOR CONTINUATION  
SEE SHEET 4 OF 12

FOR CONTINUATION SEE BELOW

FOR CONTINUATION  
SEE SHEET 4 OF 12

FOR CONTINUATION  
SEE SHEET 4 OF 12

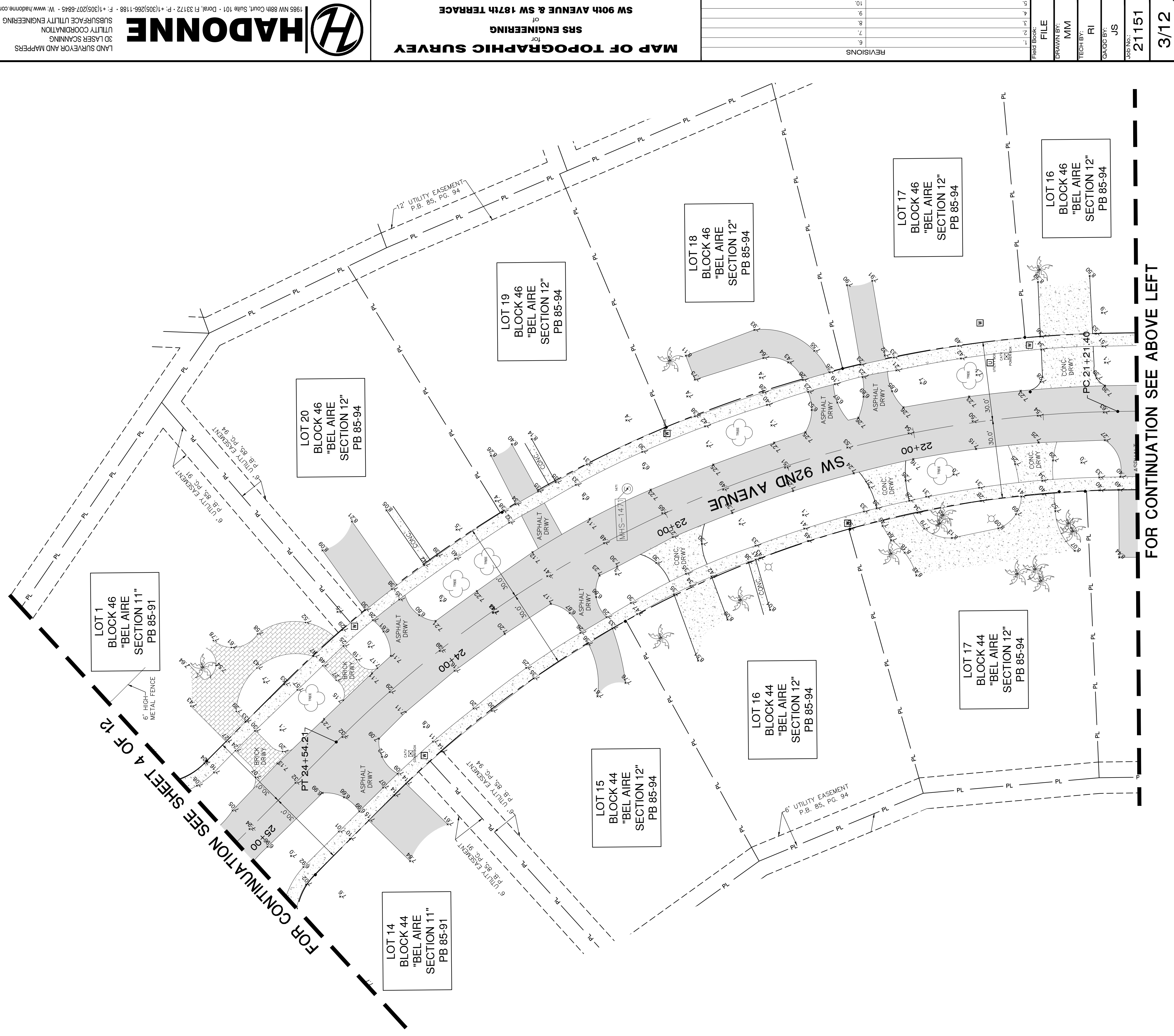
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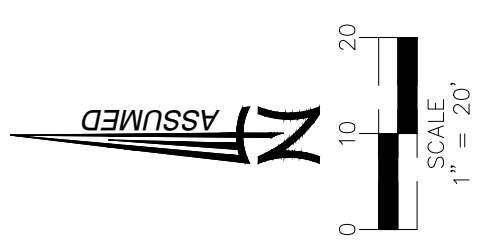
# MAP OF TOPOGRAPHIC SURVEY

FOR CONTINUATION SEE BELOW RIGHT



FOR CONTINUATION SEE BELOW LEFT

FOR CONTINUATION SEE ABOVE LEFT



SYMBOL	DESCRIPTION
●	FOUND IRON REBAR
○	FOUND IRON PIPE WITH CAP
—	PROPERTY LINE
R/W	RIGHT-OF-WAY
CBS	CONCRETE BLOCK STUCCO
N.G.V.D.	NATIONAL GEODETIC VERTICAL DATUM
PB	PLAT BOOK
PG	PAGE
F.N.D.	FOUND NAIL & DISK
—	NUMBER OF PARKING SPACES
S.I.P.	SET IRON PIPE
—	TOP OF PIPE
SWK	SIDEWALK
P.O.B.	POINT OF BEGINNING
N.T.S.	NOT TO SCALE
T.B.M.	TEMPORARY BENCH MARK
F.F.E.	FINISH FLOOR ELEVATION
S.I.R.	SET IRON REBAR
F.D.H.	FOUND DRILL HOLE
F.I.P.	FOUND IRON PIPE
F.I.R.	FOUND IRON REBAR
—	BENCHMARK
—	EXISTING ELEVATION
—	TREE
—	PALM TREE
—	IRRIGATION CONTROL VALVE
—	TRIE NUMBER
—	STRUCTURE NUMBER
—	CURB
—	ELECTRIC UTILITY BOX
—	WATER METER
—	WATER VALVE
—	SANITARY SEWER CLEAN OUT
—	SANITARY SEWER MANHOLE
—	SANITARY SEWER VALVE
—	MANHOLE UNKOWN
—	DRAINAGE MANHOLE
—	GREASE TRAP MANHOLE
—	FIRE BEPT. CONNECTOR
—	GAS METER
—	TELECOMMUNICATIONS BOX
—	MONITORING WELL
—	FIRE HYDRANT
—	LIGHT POST
—	BACK-FLOW PREVENTER
—	GUARDRAIL
—	GUY ANCHOR
—	POST
—	SIGN
—	MALIBOX
—	FPL TRANSFORMER
—	SONIC WAST ARM
—	INTERCOM BOX
—	CONCRETE UTILITY POLE
—	WOOD UTILITY POLE
—	GAS WELK BOLLING GATE
—	CHAIN-LINK SWING GATE
—	IRON WING GATE
—	CHAIN-LINK FENCE
—	CHAIN-LINK SWING GATE
—	FENCE OTHER
—	PROPERTY LINE
—	RIGHT-WAY LINE
—	EASEMENT LINE
—	X-UTL-DRAIN
—	X-UTL-SANT
—	OVERHEAD UTILITY LINE
—	GRAVEL
—	BRICK
—	BUILDING HATCH
—	CONCRETE
—	TILE
—	ASPHALT PAVEMENT
—	HANDICAP TACTILE STRIP

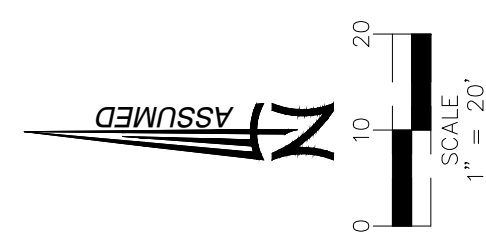
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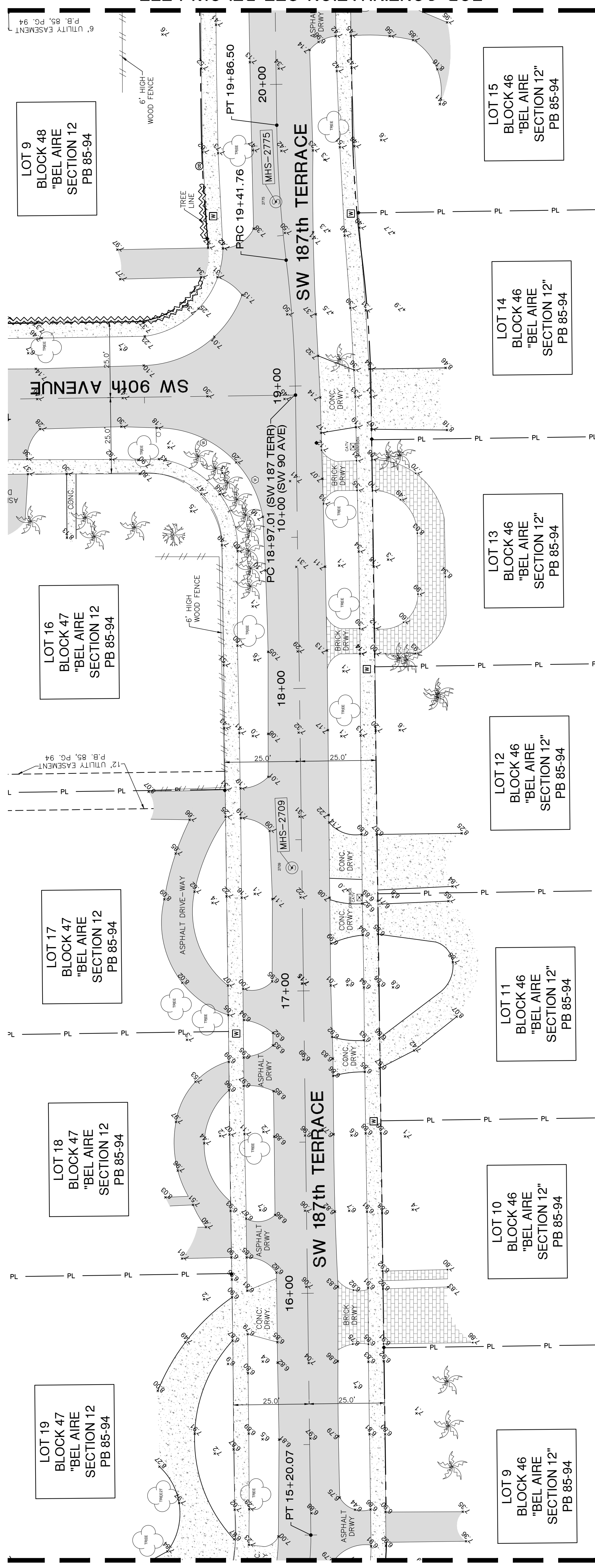


# MAP OF TOPOGRAPHIC SURVEY

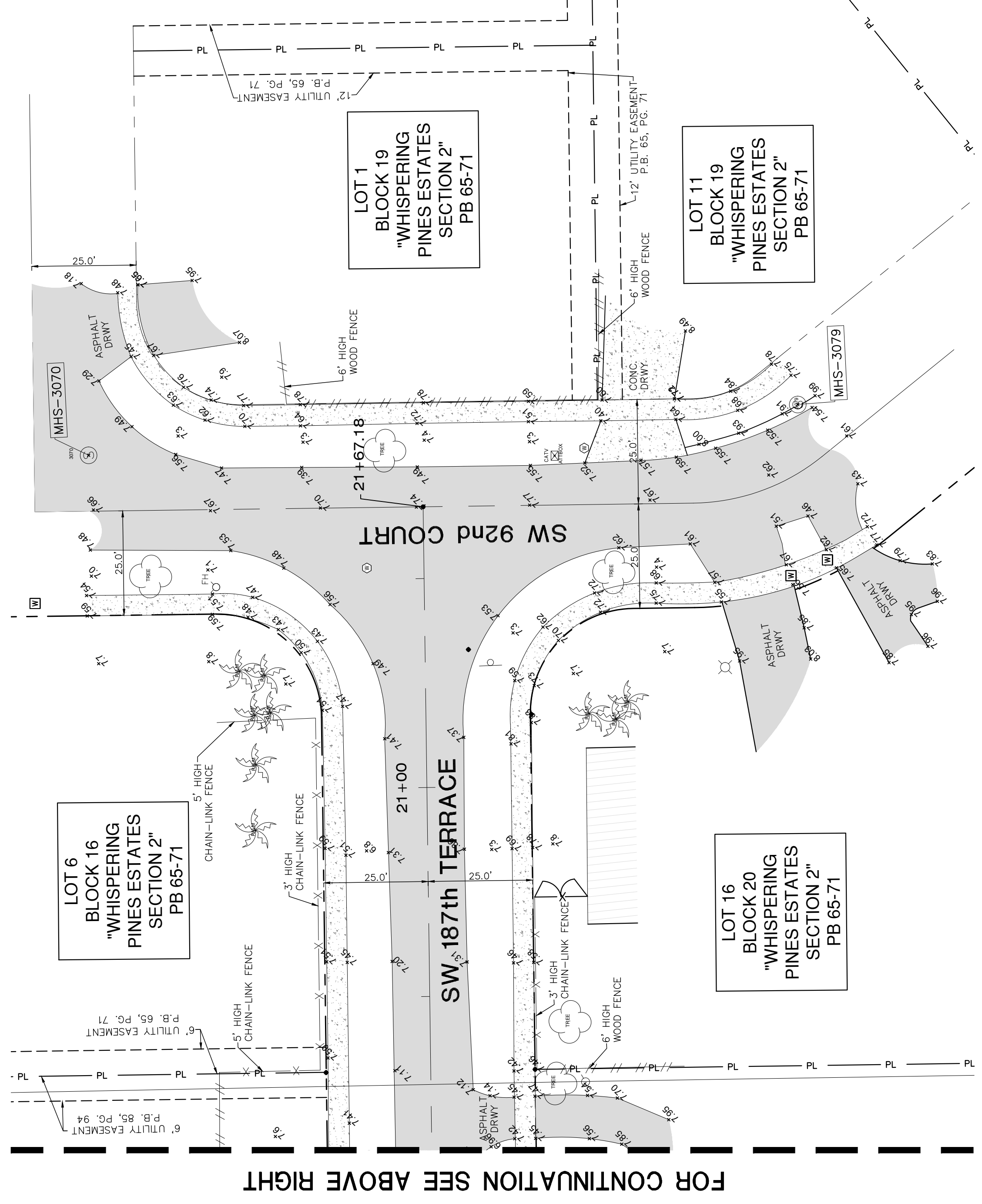


SYMBOL	DESCRIPTION
○	FOUND IRON REBAR
●	FOUND IRON PIPE WITH CAP
—	PROPERTY LINE
R/W	RIGHT-OF-WAY
CBS	CONCRETE BLOCK STUCCO
N.G.V.D.	NATIONAL GEODETIC VERTICAL DATUM
PB	PLAT BOOK
PG	PAGE
F.N.D.	FOUND NAIL & DISK
—	NUMBER OF PARKING SPACES
S.I.P.	SET IRON PIPE
T.O.P.	TOP OF PIPE
SWK	SIDEWALK
P.O.B.	POINT OF BEGINNING
N.T.S.	NOT TO SCALE
T.B.M.	TEMPORARY BENCH MARK
F.F.E.	FINISH FLOOR ELEVATION
S.I.R.	SET IRON REBAR
F.D.H.	FOUND DRILL HOLE
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F.I.R.	FOUND IRON REBAR
—	BENCHMARK
—	EXISTING ELEVATION
—	TREE
—	PALM TREE
—	IRRIGATION CONTROL VALVE
—	TREE NUMBER
—	UTILITY STRUCTURE NUMBER
—	UTILITY STRUCTURE NUMBER
—	ELECTRIC UTILITY BOX
—	WATER METER
—	WATER VALVE
—	SANITARY SEWER CLEAN OUT
—	SANITARY SEWER MANHOLE
—	SANITARY SEWER VALVE
—	MANHOLE UNKNOWN
—	DRAINAGE MANHOLE
—	GREASE TRAP MANHOLE
—	FIRE DEPT. CONNECTOR
—	GAS METER
—	TELECOMMUNICATIONS BOX
—	MONITORING WELL
—	FIRE HYDRANT
—	LIGHT POST
—	BACK-FLOW PREVENTER
—	GUARDRAIL
—	GUY ANCHOR
—	POST
—	SIGN
—	MALIBOX
—	FPL TRANSFORMER
—	SIGNAL MAST ARM
—	INTERCOM BOX
—	CONCRETE UTILITY POLE
—	WOOD UTILITY POLE
—	GAS WALKING ROLLING GATE
—	CHAIN-LINK SWING GATE
—	FENCE OTHER
—	IRON WING GATE
—	CHAIN-LINK SWING GATE
—	FENCE OTHER
—	PROPERTY LINE
—	RIGHT-WAY LINE
—	EASEMENT LINE
—	X-UTL-DRAIN
—	X-UTL-SANT
—	OVERHEAD UTILITY LINE
—	GRAVEL
—	BRICK
—	BUILDING HATCH
—	CONCRETE
—	TILE
—	ASPHALT PAVEMENT
—	HANDICAP TACTILE STRIP

FOR CONTINUATION SEE SHEET 5 OF 12



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**NOTICE:**  
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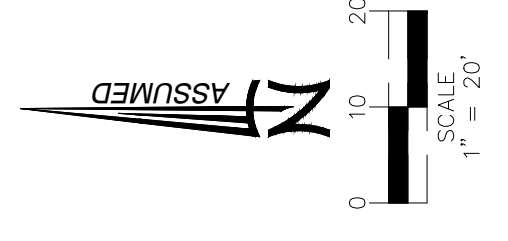








# MAP OF TOPOGRAPHIC SURVEY



SYMBOL	DESCRIPTION
○	FOUND IRON REBAR
●	FOUND IRON PIPE WITH CAP
—	PROPERTY LINE
E/W	RIGHT-OF-WAY
CSB	CONCRETE BLOCK STUCCO
NG.V.D.	NATIONAL GEODETIC VERTICAL DATUM
PLAT BOOK	PLAT BOOK
PAGE	PAGE
F.N.D.	FOUND NAIL & DISK
—	NUMBER OF PARKING SPACES
S.I.P.	SET IRON PIPE
T.O.P.	TOP OF PIPE
SWK	SIDEWALK
P.O.B.	POINT OF BEGINNING
N.T.S.	NOT TO SCALE
T.B.M.	TEMPORARY BENCH MARK
F.F.E.	FINISH FLOOR ELEVATION
S.I.R.	SET IRON REBAR
F.D.H.	FOUND DRILL HOLE
F.I.P.	FOUND IRON PIPE
F.I.R.	FOUND IRON REBAR
BENCHMARK	BENCHMARK
EXISTING ELEVATION	EXISTING ELEVATION
▲	PALM TREE
×	IRRIGATION CONTROL VALVE
T1	TREE NUMBER
UTILITY STRUCTURE NUMBER	UTILITY STRUCTURE NUMBER
CATCH BASIN	CATCH BASIN
ELECTRIC UTILITY BOX	ELECTRIC UTILITY BOX
WATER METER	WATER METER
WATER VALVE	WATER VALVE
SANITARY SEWER CLEAN OUT	SANITARY SEWER CLEAN OUT
SANITARY SEWER MANHOLE	SANITARY SEWER MANHOLE
SANITARY SEWER VALVE	SANITARY SEWER VALVE
MANHOLE UNKNOWN	MANHOLE UNKNOWN
DRAINAGE MANHOLE	DRAINAGE MANHOLE
DRAINAGE MANHOLE	DRAINAGE MANHOLE
FIRE DEPT. CONNECTOR	FIRE DEPT. CONNECTOR
GAS METER	GAS METER
TELECOMMUNICATIONS BOX	TELECOMMUNICATIONS BOX
MONITORING WELL	MONITORING WELL
FIRE HYDRANT	FIRE HYDRANT
LIGHT POST	LIGHT POST
BACK-FLOW PREVENTER	BACK-FLOW PREVENTER
GUARDRAIL	GUARDRAIL
GUY ANCHOR	GUY ANCHOR
POST	POST
SIGN	SIGN
MAILBOX	MAILBOX
FPL TRANSFORMER	FPL TRANSFORMER
SIGNAL MAST ARM	SIGNAL MAST ARM
INTERCOM BOX	INTERCOM BOX
CONCRETE UTILITY POLE	CONCRETE UTILITY POLE
WOOD UTILITY POLE	WOOD UTILITY POLE
CSB WALL	CSB WALL
CHAN-LINK ROLLING GATE	CHAN-LINK ROLLING GATE
CHAN-LINK SWING GATE	CHAN-LINK SWING GATE
FENCE-OTHER	FENCE-OTHER
IRON WING GATE	IRON WING GATE
CHAN-LINK FENCE	CHAN-LINK FENCE
CHAN-LINK SWING GATE	CHAN-LINK SWING GATE
FENCE OTHER	FENCE OTHER
PROPERTY LINE	PROPERTY LINE
RIGHT-WAY LINE	RIGHT-WAY LINE
EASEMENT LINE	EASEMENT LINE
X-DITCH	X-DITCH
X-DITCH	X-DITCH
OVERHEAD UTILITY LINE	OVERHEAD UTILITY LINE
GRAVEL	GRAVEL
CONCRETE	CONCRETE
TILE	TILE
ASPHALT PAVEMENT	ASPHALT PAVEMENT
HANDICAP TACTILE STRIP	HANDICAP TACTILE STRIP



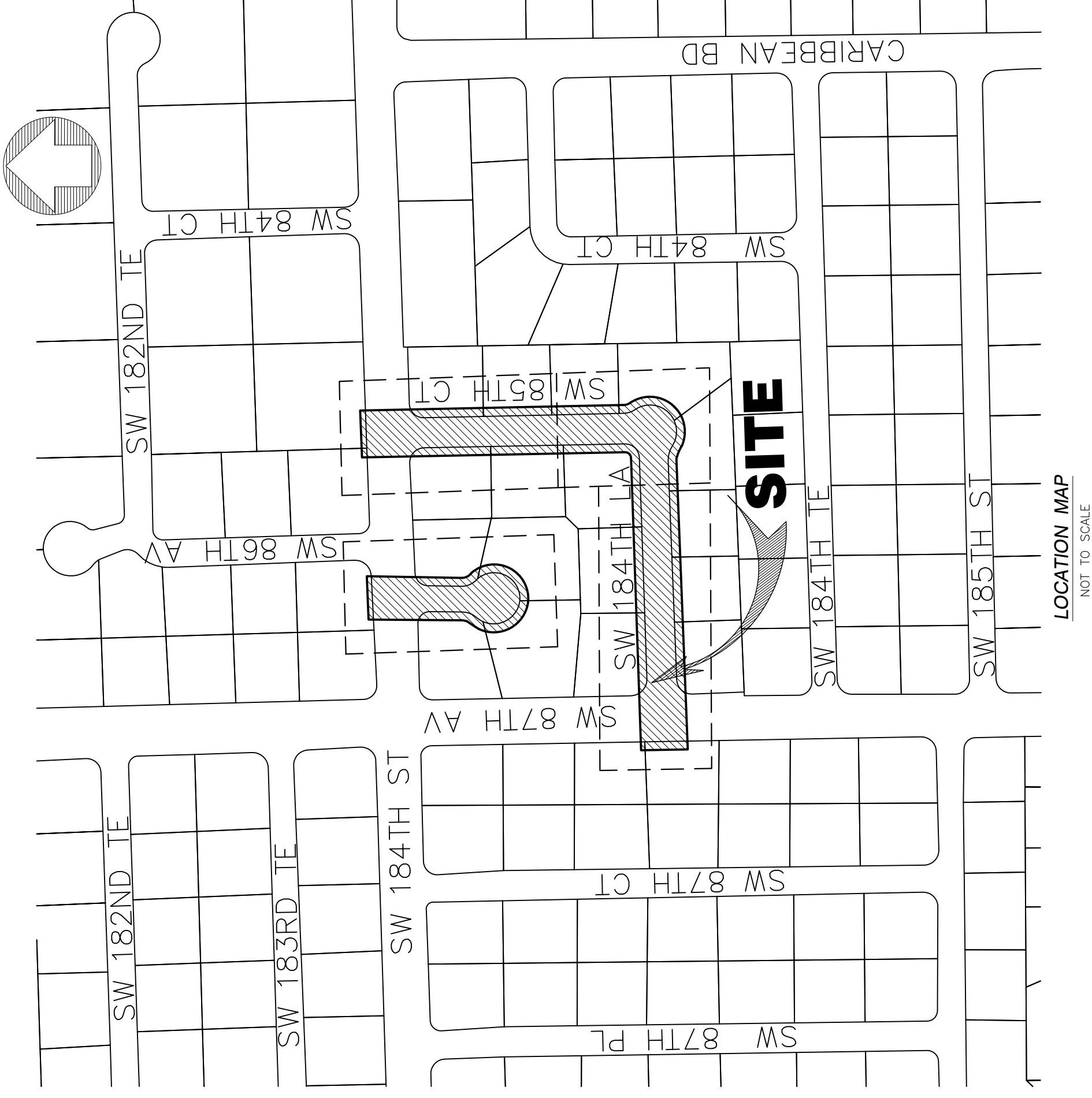
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# MAP OF TOPOGRAPHIC SURVEY

**NOTICE:**  
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**SURVEYOR'S NOTES:**

**SECTION 1) DATE OF FIELD SURVEY:**

1. The date of completion of the field work of the Topographic Survey was on December 15, 2021.

**SECTION 2) LEGAL DESCRIPTION:**

A portion of S.W. 184th Lane, from its intersection with S.W. 87th Avenue to S.W. 85th Court, and a portion of S.W. 85th Court and S.W. 86th Court, intersecting S.W. 184th Street.

**SECTION 3) ACCURACY:**

The accuracy obtained by field measurement methods and office calculations of closed geometric figures meets and exceeds the Standards of Practice requirement for this Type of Survey as defined in Rule 5J-17.051, Florida Administrative Code.

Elevations of well identified features as depicted on the Survey Map were measured to an estimated vertical position accuracy of 1/100 of a foot on hard surfaces and 1/10 of a foot on ground surfaces.

Well identified features as depicted on the Survey Map were measured to an estimated horizontal position accuracy of 1/10 of a foot.

This Map of Survey is intended to be displayed at a scale of (1"=20') or smaller.

**SECTION 4) SOURCES OF DATA:**

North arrow direction is based on an assumed Meridian.  
Plats as recorded in the Public Records of Miami-Dade County, Florida:

PLAT BOOK	PAGE	PLAT NAME
65	24	WHISPERING PINES ESTATES SECTION ONE
96	5	SECTION TWENTY-TWO BEL-AIRE
107	16	SECTION TWENTY-TWO BEL-AIRE

Bearings as shown hereon are based upon the Center Line of SW 85th Court with an assumed bearing of N00°48'52"W, said line to be considered a well established and monumented line.

Legal Description was furnished by client.

Elevations as shown hereon are based on the National Geodetic Vertical Datum of 1929, as per Miami-Dade County's Benchmarks.  
Benchmark Elevation U-705 8.95

**SECTION 5) LIMITATIONS:**

Since no other information were furnished other than that is cited in the Sources of Data, the Client is hereby advised that there may be legal restrictions on the Subject Property that are not shown on the Survey Map that may be found in the Public Records of Miami-Dade County.

The Surveyor makes no representation as to ownership or possession of the Subject Property by any entity or individual that may appear in the public records of this County.

No excavation or determination was made as to how the Subject Property is served by utilities.

No improvements were located, other than those shown. No underground foundations, improvements and/or utilities were located or shown hereon.

**SECTION 6) CLIENT INFORMATION:**

This Topographic Survey was prepared at the request of and certified to:

**SRS Engineering Inc.**

**SECTION 7) SURVEYOR'S CERTIFICATE:**

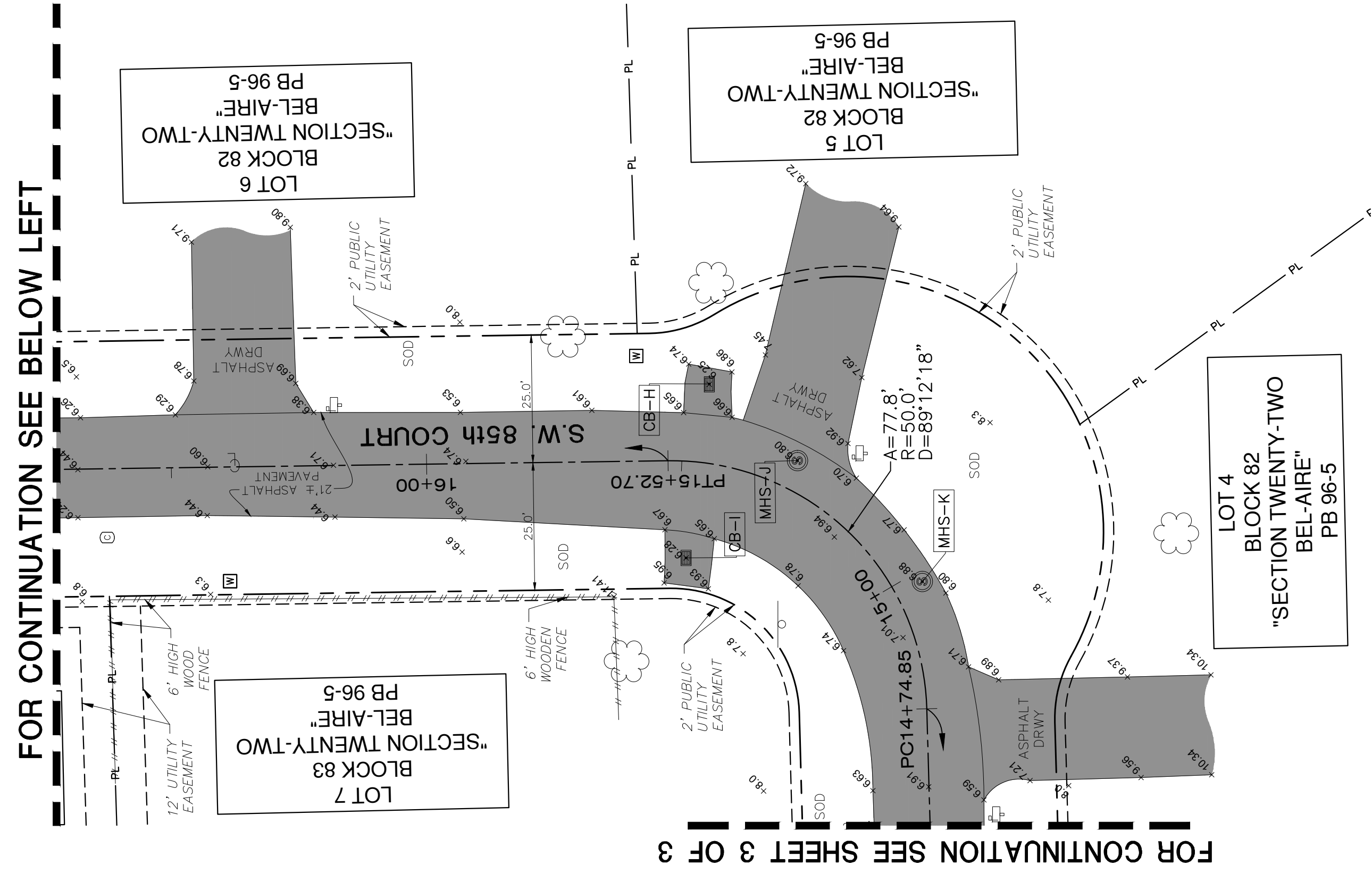
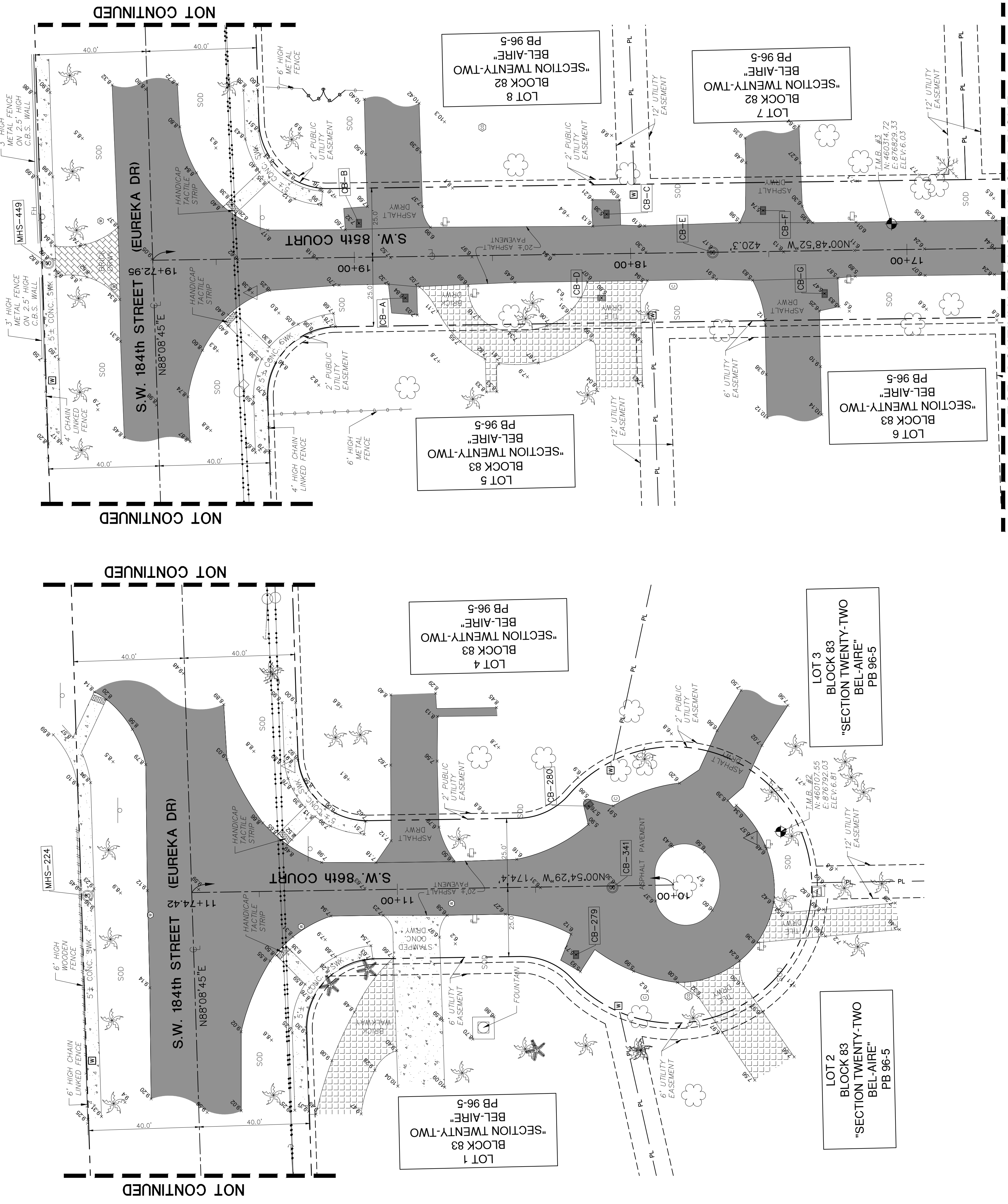
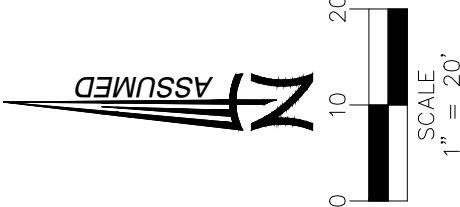
I hereby certify that this "Topographic Survey" and the Survey Map resulting therefrom was performed under my direction and is true and correct to the best of my knowledge and belief and further, that said "Topographic Survey" meets the intent of the applicable provisions of the "Standards of Practice for Land Surveying in the State of Florida", pursuant to Rule 5J-17.051 through 5J-17.052 of the Florida Administrative Code and its implementing law, Chapter 472.027 of the Florida Statutes.

**HADONNE CORP.**, a Florida Corporation  
Florida Certificate of Authorization Number LB7097

By: Raul Izquierdo, PSM  
For the Firm  
Registered Surveyor and Mapper LS6099  
State of Florida

NOTICE: Not valid without the original signature and seal of a Florida Licensed Surveyor and Mapper. Additions or deletions to Survey Maps by other than the signing party are prohibited without the written consent of the signing party.

# MAP OF TOPOGRAPHIC SURVEY



SYMBOL	DESCRIPTION
●	FOUND IRON REBAR
○	FOUND IRON PIPE WITH CAP
□	PROPERTY LINE
R/W	RIGHT-OF-WAY
CB	CONCRETE BLOCK STUCCO
N.S.V.D.	NATIONAL GEODETIC VERTICAL DATUM
PB	PLAT BOOK
PG	PAGE
F.A.D.	FOUND MAIL & DISK
S.I.P.	NUMBER OF PARKING SPACES
T.O.P.	TOP OF PIPE
SWK	SIDEWALK
P.O.B.	POINT OF BEGINNING
N.T.S.	NOT TO SCALE
T.B.M.	TEMPORARY BENCH MARK
F.F.	FINISH FLOOR ELEVATION
S.I.R.	SET IRON REBAR
F.D.H.	FOUND DRILL HOLE
F.I.R.	FOUND IRON REBAR
○	CATCH BASIN
○	ARKY RISER
○	FIRE HYDRANT
○	DRAINAGE CURB INLET
○	BACKFLOW PREVENTOR
○	GAS METER
○	PEDESTRIAN SIGNAL
○	ELECTRIC UTILITY BOX
○	LIGHT POLE
○	GUY ANCHOR
○	WATER METER
○	N.A.V.D. NATIONAL GEODETIC VERTICAL DATUM
○	PLAT BOOK
○	PAGE
○	FOUND MAIL & DISK
○	NUMBER OF PARKING SPACES
○	TOP OF PIPE
○	SIDEWALK
○	POINT OF BEGINNING
○	NOT TO SCALE
○	TEMPORARY BENCH MARK
○	FINISH FLOOR ELEVATION
○	SET IRON REBAR
○	FOUND DRILL HOLE
○	FOUND IRON REBAR
○	CATCH BASIN
○	ARKY RISER
○	FIRE HYDRANT
○	DRAINAGE CURB INLET
○	WOOD FENCE
○	IRON ROLLING GATE
○	IRON SWING GATE
○	CHAIN-LINK FENCE
○	CHAIN-LINK ROLLING GATE
○	CHAIN-LINK SWING GATE
○	FENCE-OTHER
○	TREE
○	PALM TREE
○	AREA TREE
○	PROPERTY LINE
○	RIGHT-WAY-LINE
○	EASEMENT-LINE
○	EXISTING ELEVATION
○	OVERHEAD UTILITY LINE
○	X-UTL-DRAIN
○	X-UTL-SANIT
○	GRAVEL
○	BRICK
○	BUILDING HATCH
○	CONCRETE
○	TILE
○	ASPHALT PAVEMENT
○	HANDICAP TACTILE STRIP
○	CBS WALL

**HADONNE**  
LAND SURVEYOR AND MAPPERS  
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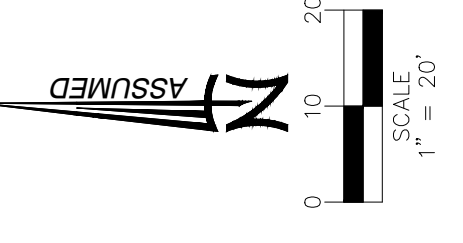
**MAP OF TOPOGRAPHIC SURVEY**  
for  
**SRS ENGINEERING**  
**SW 85 & 86th COURT AND SW 184th LANE**

REVISIONS  
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FILE  
DRAWN BY: JA  
TECH BY: RI  
CHECKED BY: JS  
DATE: 2/11/25  
SHEET: 2/3

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NOT CONTINUED

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LOT 12  
BLOCK 87  
"SECTION TWENTY-THREE"  
BEL-AIRE"  
PB 107-16

LOT 11  
BLOCK 87  
"SECTION TWENTY-THREE"  
BEL-AIRE"  
PB 107-16

LOT 9  
BLOCK 83  
"SECTION TWENTY-TWO"  
BEL-AIRE"  
PB 96-5

LOT 1  
BLOCK 82  
"SECTION TWENTY-TWO"  
BEL-AIRE"  
PB 96-5

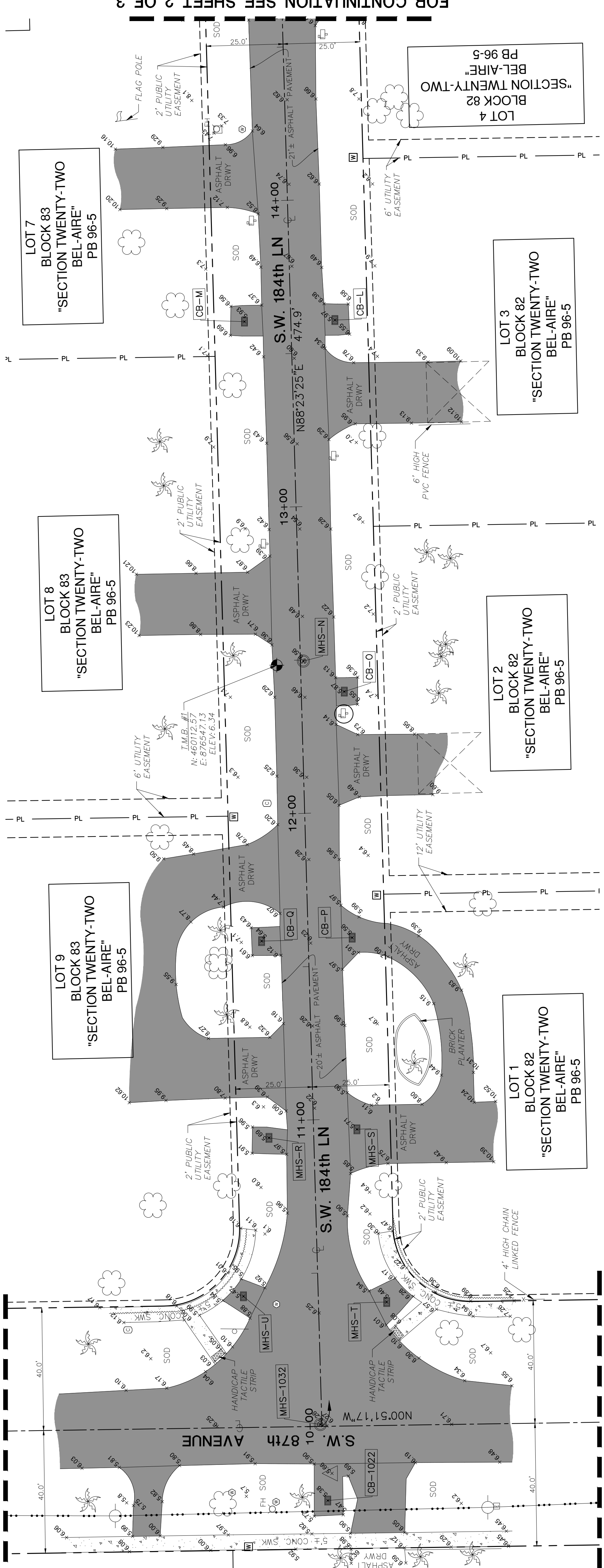
LOT 8  
BLOCK 83  
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BEL-AIRE"  
PB 96-5

LOT 2  
BLOCK 82  
"SECTION TWENTY-TWO"  
BEL-AIRE"  
PB 96-5

LOT 7  
BLOCK 83  
"SECTION TWENTY-TWO"  
BEL-AIRE"  
PB 96-5

LOT 3  
BLOCK 82  
"SECTION TWENTY-TWO"  
BEL-AIRE"  
PB 96-5

LOT 4  
BLOCK 82  
"SECTION TWENTY-TWO"  
BEL-AIRE"  
PB 96-5



FOR CONTINUATION SEE SHEET 2 OF 3

SYMBOL	DESCRIPTION
○	FOUND IRON REBAR
●	FOUND IRON PIPE WITH CAP
—	PROPERTY LINE
R/W	RIGHT-OF-WAY
CS	CONCRETE BLOCK STUCCO
NGVD	NATIONAL GEODETIC VERTICAL DATUM
PL	PLAT BOOK
PG	PAGE
F.N.D.	FOUND NAIL & DISK
SLIP	NUMBER OF PARKING SPACES
T.O.P.	TOP OF PIPE
SWK	SIDEWALK
P.O.B.	POINT OF BEGINNING
N.T.S.	NOT TO SCALE
T.B.M.	TEMPORARY BENCH MARK
F.F.E.	FINISH FLOOR ELEVATION
SLR	SET IRON REBAR
F.D.H.	FOUND DRILL HOLE
F.I.P.	FOUND IRON PIPE
F.I.R.	FOUND IRON REBAR
CB	CATCH BASIN
AT&T	AT&T RISER
FI	FIRE HYDRANT
DR	DRINKAGE CURB INLET
BC	BACKFLOW PREVENTOR
GS	GAS METER
PS	PEDESTRIAN SIGNAL
EU	ELECTRIC UTILITY BOX
LP	LIGHT POLE
GA	GUY ANCHOR
WM	WATER METER
GV	GREASE-TRAP WHOLE
CO	CLEAN-OUT
SM	SANITARY SEWER MANHOLE
SV	SANITARY SEWER VALVE
MD	MANHOLE DRAINAGE MANHOLE
MA	MANHOLE
INT	INTERCOM
POST	POST
SGN	SIGN
MB	MAILBOX
CU	CONCRETE UTILITY POLE
GR	GUARDRAIL
FT	FPL TRANSFORMER
WU	WOOD UTILITY POLE
T1	TREE NUMBER
UT	UTILITY STRUCTURE NUMBER
CBS	CBS WALL
WF	WOOD FENCE
IF	IRON FENCE
IR	IRON ROLLING GATE
ISG	IRON SWING GATE
ILF	CHAIN-LINK FENCE
ILR	CHAIN-LINK ROLLING GATE
ILSG	CHAIN-LINK SWING GATE
FOT	FENCE-OTHER
T	TREE
CP	COCONUT PALM
PT	PINE TREE
PR	PROPERTY LINE
RL	RIGHT-OF-WAY LINE
EL	EASEMENT LINE
EX	EX-UTL-SWNT
OE	OVERHEAD UTILITY LINE
EL	EASTING ELEVATION
SW	SWATH
BL	BUILDING HATCH
CON	CONCRETE
TILE	TILE
ASP	ASPHALT PAVEMENT
HAS	HANDICAP TACTILE STRIP

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# MAP OF TOPOGRAPHIC SURVEY

MAP OF TOPOGRAPHIC SURVEY  
SRS ENGINEERING  
SW 85 & 86th COURT AND SW 184th LANE

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10	REVISIONS
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FILE: JA  
DRAWN BY: JA  
TECH BY: RI  
CHECK BY: JS  
SUBS: 21151  
DATE: 3/3

L	CB (3x3)	5.97	NORTH	0.72	PVC 18"
			WEST	-1.78	PVC 18"
M	CB	5.93	EAST	0.63	PVC 18"
			SOUTH	0.43	PVC 18"
N	MHS (4x4)	6.56	EAST	-1.37	PVC 10"
			WEST	-4.09	PVC 10"
O	CB (3x3)	5.87	EAST	-0.05	PVC 18"
			WEST	-0.08	PVC 18"
P	CB (3x3)	5.56	EAST	0.06	PVC 18"
			WEST	0.06	PVC 18"
Q	CB (3x3)	5.64	SOUTH	0.34	PVC 18"
			WEST	-1.84	PVC 18"
R	CB (3x3)	5.69	WEST	-1.51	PVC 18"
			EAST	0.51	PVC 18"
S	CB (3x3)	5.71	WEST	-1.29	PVC 18"
			EAST	0.51	PVC 18"
T	CB (4x4)	5.46	NORTHWEST	2.66	PVC 18"
			SOUTH	-2.69	PVC 18"
U	CB (2.5x1.5)	5.47	EAST	-1.08	PVC 18"
			WEST	2.97	PVC 18"
			BOTTOM	-1.53	

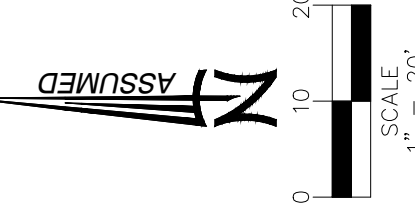
D	CB (3x3)	5.8	NORTH	0.3	PVC 18"
			EAST	4.3 <th>PVC 15"</th>	PVC 15"
			BOTTOM	0.4 <th>PVC 18"</th>	PVC 18"
E	MHS (4x4)	6.17	NORTH	-2.33	CLAY 10"
			SOUTH	-2.38	CLAY 10"
F	CB (2x1.5)	5.74	NORTH	0.24	PVC 15"
			WEST	-1.06	PVC 15"
			BOTTOM	-6.26	PVC 15"
G	CB (3x3)	5.47	NORTH	0.57	PVC 18"
			NORTHEAST	2.07	PVC 18"
			SOUTH	0.57	PVC 15"
H	CB (3x3)	6.25	WEST	0.75	PVC 18"
			NORTH	0.63	PVC 18"
I	CB (3x3)	6.28	SOUTHWEST	0.98	PVC 18"
			EAST	0.68	PVC 18"
J	MHS (4x4)	6.8	NORTH	-1.32	PVC 10"
			SOUTHWEST	-4.15	PVC 10"
K	MHS (4x4)	6.88	NORTHEAST	-3.12	PVC 10"
			WEST	-3.37	PVC 10"
			BOTTOM	-3.27	

NO.	STRUCTURE	RIM	DIRECTION	INVERT	DESCRIPTION
224	MHS (3x3)	9.36	EAST	1.16	PVC 8"
			SOUTH	1.26	PVC 10"
279	CB (2x1.5)	5.71	NORTH		TRENCH
			SOUTH		TRENCH
280	CB (2x1.5)	5.76	BOTTOM	-6.29	TRENCH
			NORTH		TRENCH
			SOUTH	-6.24	TRENCH
341	MHS (3x3)	6.3	NORTH	2	PVC 8"
			SOUTH	2.15	PVC 8"
449	MHS (3x3)	8.92	EAST	-1.48	PVC 8"
			WEST	-1.53	PVC 10"
1022	CB (2.5x1.5)	5.38	NORTHEAST	0.88	CONC. 10"
1032	MHS (4x4)	6.26	BOTTOM	-0.92	CLAY 12"
			EAST	-4.94	CLAY 10"
A	CB (3x3)	6.84	NORTHWEST	1.06	CLAY 12"
			SOUTH	3.04	PVC 15"
B	CB (3x3)	7.32	BOTTOM	-0.86	PVC 15"
			SOUTHWEST	3.42	PVC 15"
C	CB (3x3)	5.38	SOUTH	0.68	PVC 18"
			WEST	0.88	PVC 15"
			BOTTOM	-1.22	



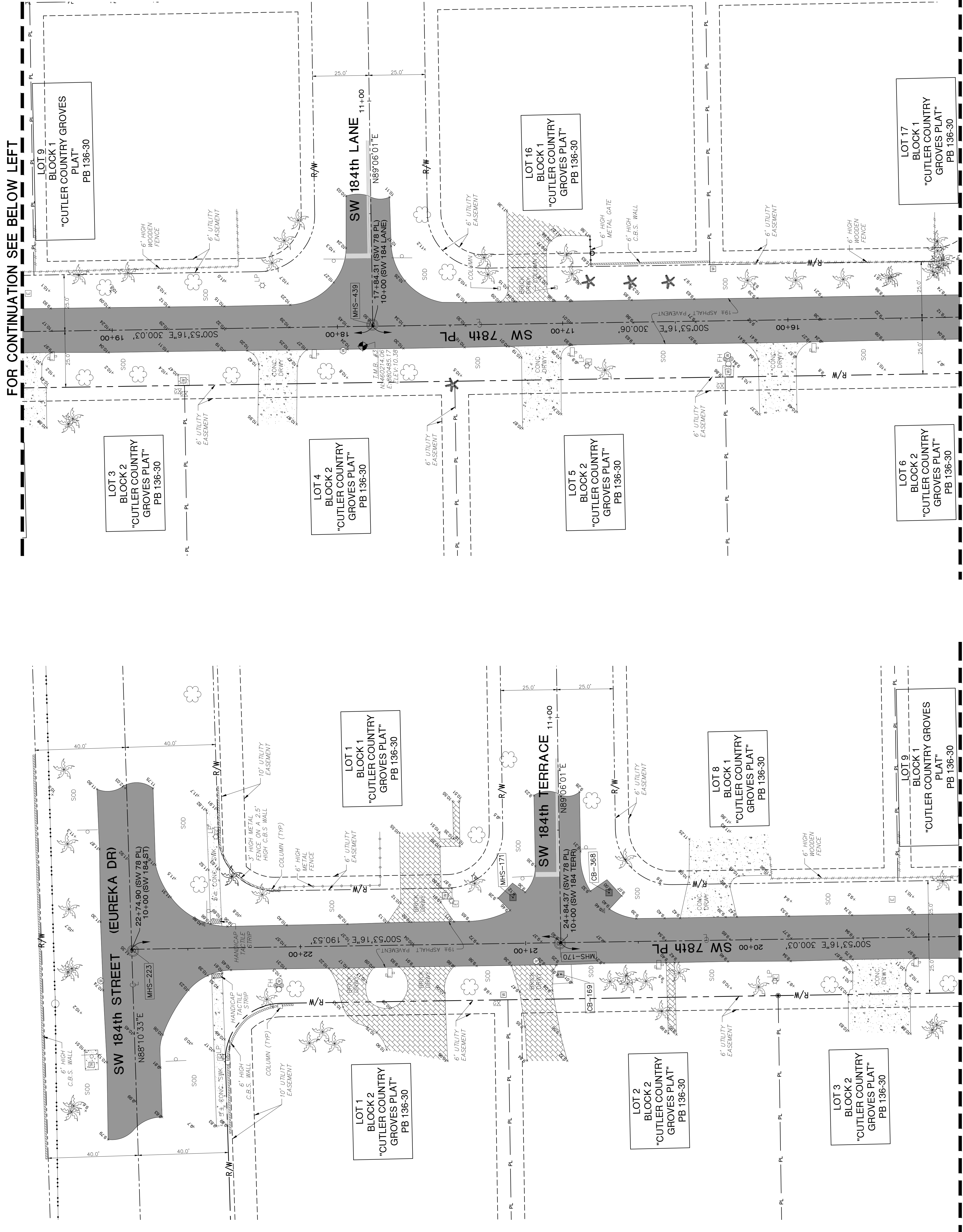


# MAP OF TOPOGRAPHIC SURVEY



SYMBOL	DESCRIPTION
●	FOUND IRON REBAR
○	FOUND IRON PIPE WITH CAP
—	PROPERTY LINE
R/W	RIGHT-OF-WAY
CS	CONCRETE BLOCK STUCCO
N.S.V.D.	NATIONAL GEODETIC VERTICAL DATUM
PB	PLAT BOOK
PG	PAGE
F.A.D.	FOUND NAIL & DISK
○	NUMBER OF PARKING SPACES
S.I.P.	SET IRON PIPE
T.O.P.	TOP OF PIPE
SWK	SIDEWALK
P.O.B.	POINT OF BEGINNING
N.T.S.	NOT TO SCALE
T.B.M.	TEMPORARY BENCH MARK
F.F.E.	FINISH FLOOR ELEVATION
S.I.R.	SET IRON REBAR
F.D.H.	FOUND DRILL HOLE
F.I.P.	FOUND IRON PIPE
F.I.R.	FOUND IRON REBAR
C.B.	CATCH BASIN
⊕	ELECTRICAL WALL PANEL
⊖	FIRE HYDRANT
⊕	DRAINAGE CURB INLET
⊖	BACKFLOW PREVENTOR
⊕	COMMUNICATION BOX
⊖	PEDESTRIAN SIGNAL
⊕	ELECTRIC UTILITY BOX
⊖	LIGHT POLE
⊕	WATER METER
⊖	WATER VALVE
⊕	GREASE-TRAP MANHOLE
⊖	SANITARY SEWER CLEAN-OUT
⊕	SANITARY SEWER MANHOLE
⊖	MANHOLE JUNCTION
⊕	MANHOLE
⊖	SIGNAL MAST ARM
⊕	IRRIGATION VALVE
⊖	POST
⊕	SON
⊖	MAILBOX
⊕	CONCRETE UTILITY POLE
⊖	GUARDRAIL
⊕	PFL TRANSFORMER
⊖	WOOD UTILITY POLE
⊕	TRAFFIC BOX
⊖	UTILITY STRUCTURE NUMBER
⊕	CBS WALL
⊖	WOOD FENCE
⊕	IRON ROLLING GATE
⊖	IRON SWING GATE
⊕	CHAIN-LINK FENCE
⊖	CHAIN-LINK ROLLING GATE
⊕	CHAIN-LINK SWING GATE
⊖	FENCE-OTHER
⊕	PINE TREE
⊖	PALM TREE
⊕	PROPERTY LINE
⊖	RIGHT-WAY-LINE
⊕	EASEMENT LINE
⊖	X-UTL-DRAIN
⊕	X-UTL-SANIT
⊖	OVERHEAD UTILITY LINE
⊕	EXISTING ELEVATION
⊖	GRAVEL
⊕	BRICK
⊖	BUILDING HATCH
⊕	CONCRETE
⊖	TILE
⊕	ASPHALT PAVEMENT
⊖	HANDICAP TACTILE STRIP

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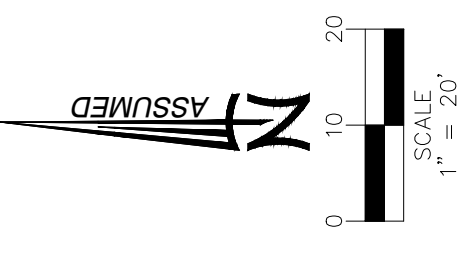


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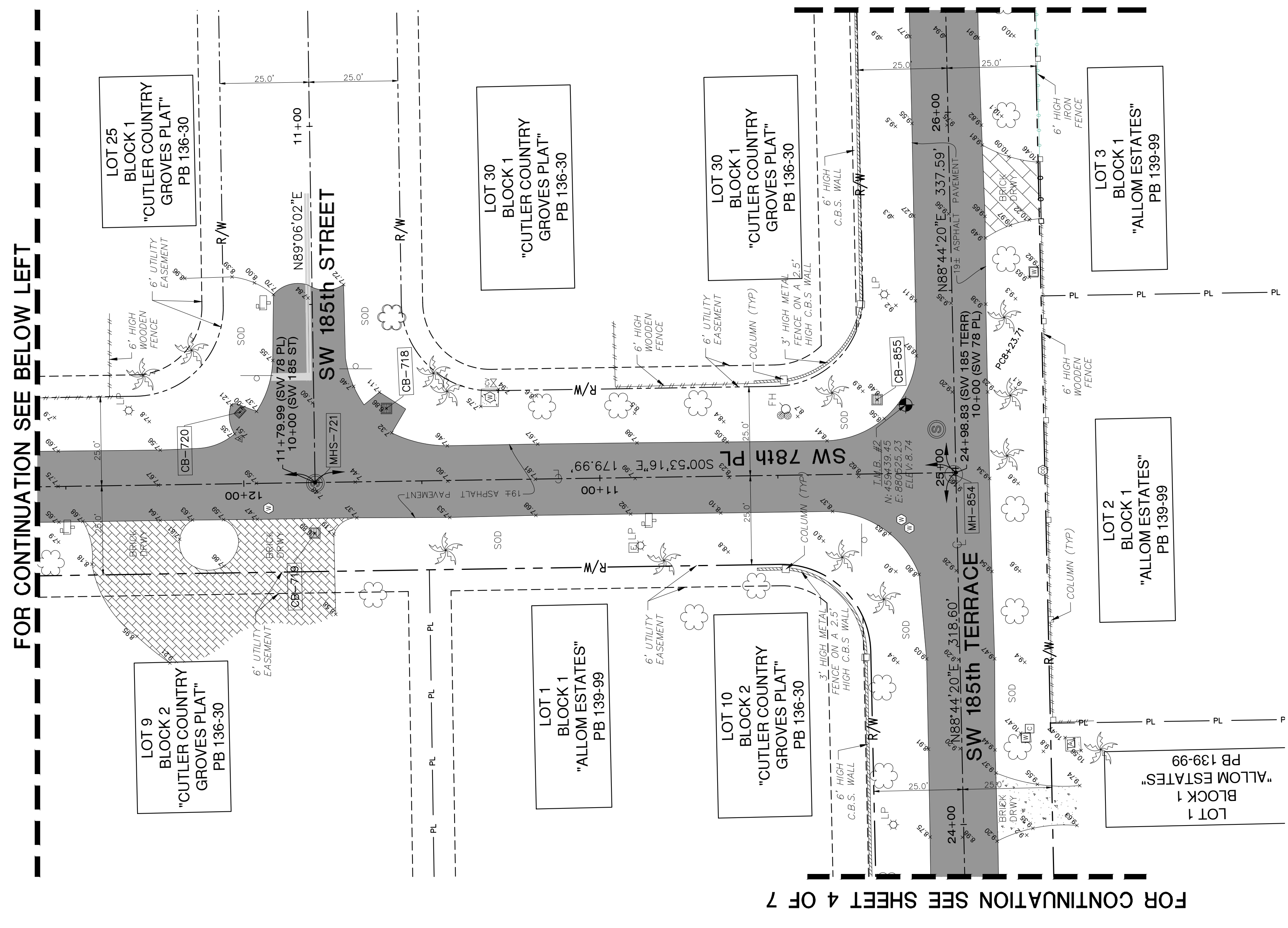
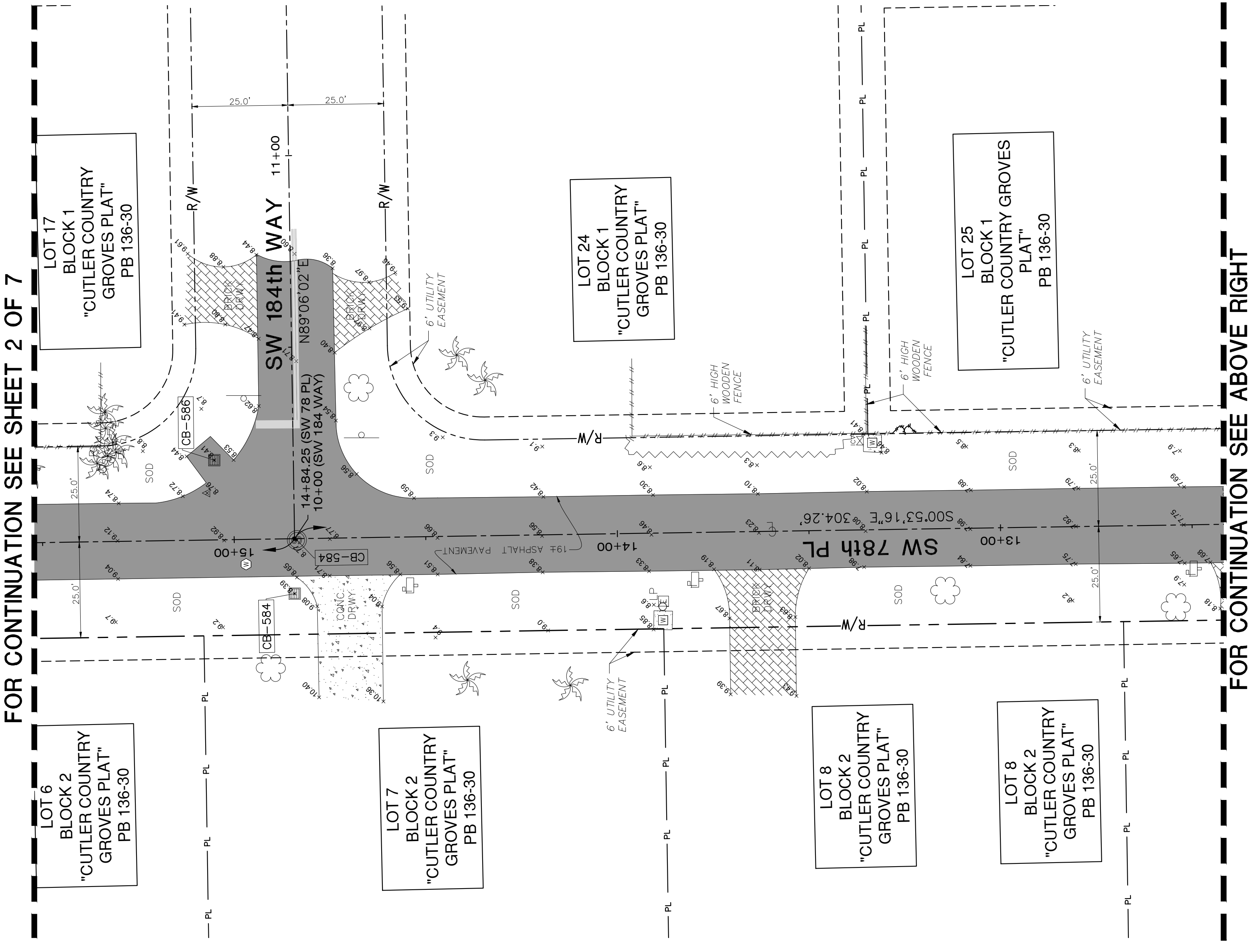
FOR CONTINUATION SEE SHEET 3 OF 7



# MAP OF TOPOGRAPHIC SURVEY



SYMBOL	DESCRIPTION
●	FOUND IRON REBAR
○	FOUND IRON PIPE WITH CAP
○	PROPERTY LINE
○	RIGHT-OF-WAY
○	CONCRETE BLOCK STUCCO
○	N.G.V.D. NATIONAL GEODETIC VERTICAL DATUM
○	PLAT BOOK
○	PAGE
○	F.N.D. FOUND NAIL & DISK
○	NUMBER OF PARKING SPACES
○	SLIP. SET IRON PIPE
○	T.O.P. TOP OF PIPE
○	SIWEMALK
○	N.O.B. POINT OF BEGINNING
○	N.T.S. NOT TO SCALE
○	T.B.M. TYPED BENCH MARK
○	F.F.E. FINISH FLOOR ELEVATION
○	S.I.R. SET IRON REBAR
○	F.D.P. FOUND DRILL HOLE
○	F.I.P. FOUND IRON PIPE
○	C.A.T. FOUND IRON REBAR
○	ELECTRICAL WALL PANEL
○	BACKFLOW PREVENTOR
○	COMMUNICATION BOX
○	PEDESTRIAN SIGNAL
○	ELECTRIC UTILITY BOX
○	LIGHT POLE
○	CLAY ANCHOR
○	WATER METER
○	WATER VALVE
○	GREASE-TRAP MANHOLE
○	SANITARY SEWER CLEAN-OUT
○	SANITARY SEWER MANHOLE
○	SANITARY SEWER VALVE
○	MANHOLE JUNCTION
○	DRAINAGE MANHOLE
○	SIGNAL MAST ARM
○	IRRIGATION VALVE
○	POST
○	SIGN
○	MAILBOX
○	CONCRETE UTILITY POLE
○	GUARDRAIL
○	F.P.L. TRANSFORMER
○	TRAFFIC BOX
○	WOOD UTILITY POLE
○	UTILITY STRUCTURE NUMBER
○	CEILING
○	WOOD FENCE
○	IRON ROLLING GATE
○	IRON SWING GATE
○	CHAIN-LINK FENCE
○	CHAIN-LINK ROLLING GATE
○	CHAIN-LINK SWING GATE
○	FENCE-OTHER
○	TREE
○	PINE TREE
○	PALM TREE
○	PROPERTY LINE
○	RIGHT-WAY-LINE
○	EASEMENT LINE
○	X-UTL-SANT
○	X-UTL-SANT
○	OVERHEAD UTILITY LINE
○	EXISTING ELEVATION
○	BRICK
○	BUILDING HATCH
○	CONCRETE
○	ASPHALT PAVEMENT
○	HANDICAP TACTILE STRIP



REVISIONS	DATE	BY	DESCRIPTION
1			
2			
3			
4			
5			
6			
7			
8			
9			
10			

**HADONNE**  
 LAND SURVEYOR AND MAPPERS  
 3D LASER SCANNING  
 UTILITY COORDINATION  
 SUBSURFACE UTILITY ENGINEERING  
 1985 NW 88th Court, Suite 101 • Doral, FL 33172 • P. +1(305)266-1188 • F. +1(305)207-6845 • W. www.hadonne.com

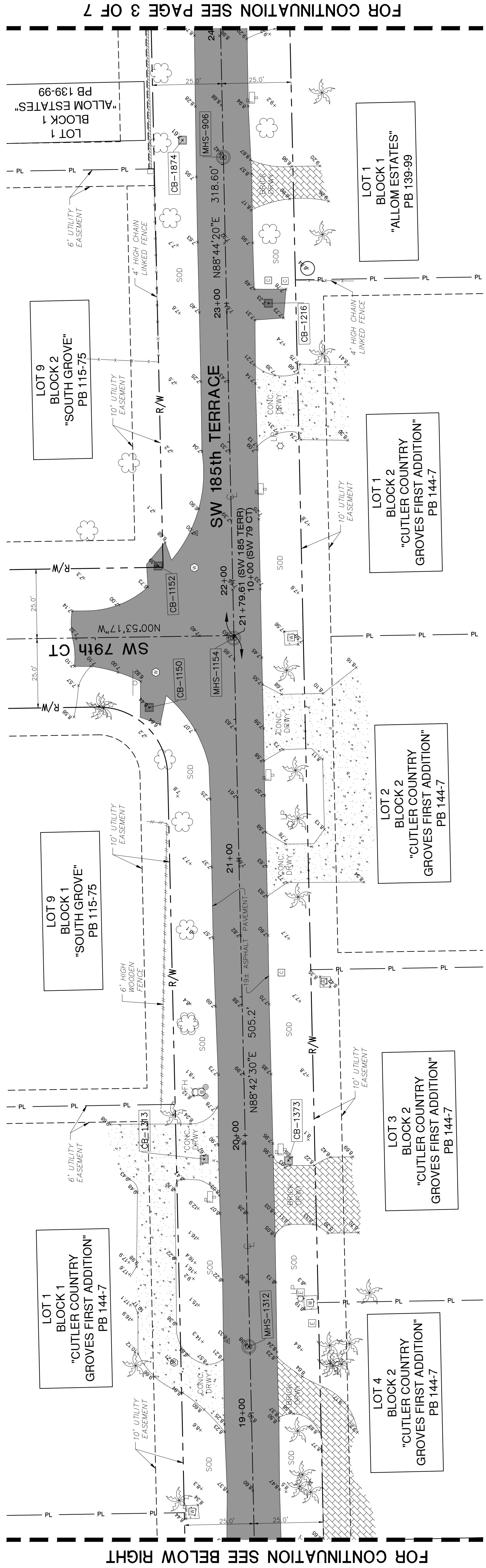
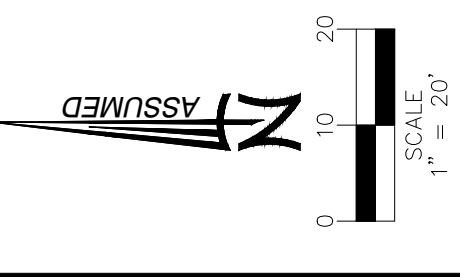
**MAP OF TOPOGRAPHIC SURVEY**  
 SRS ENGINEERING  
 SW 78th PLACE & SW 185 TERRACE

FILE: \_\_\_\_\_  
 DRAWN BY: JA  
 TECH BY: RI  
 CHECK BY: JS  
 SUBMIT: 2/11/21  
 SHEETS: 21151  
 TOTAL: 3/5

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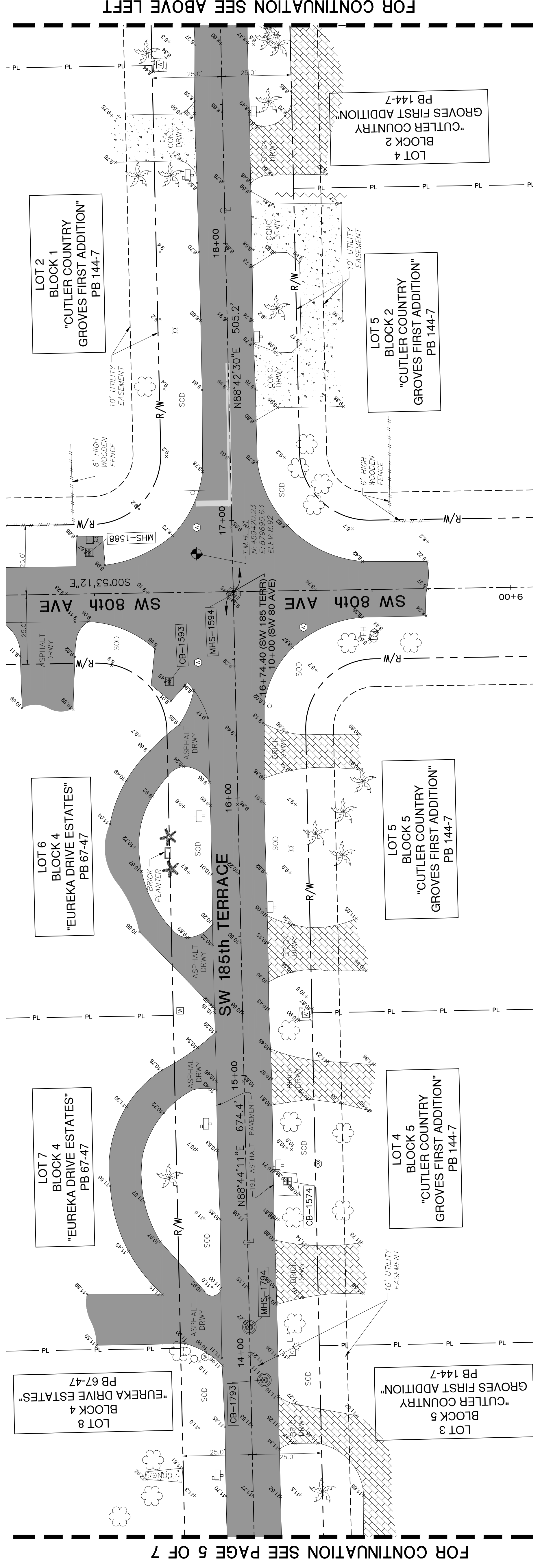


# MAP OF TOPOGRAPHIC SURVEY



FOR CONTINUATION SEE PAGE 3 OF 7

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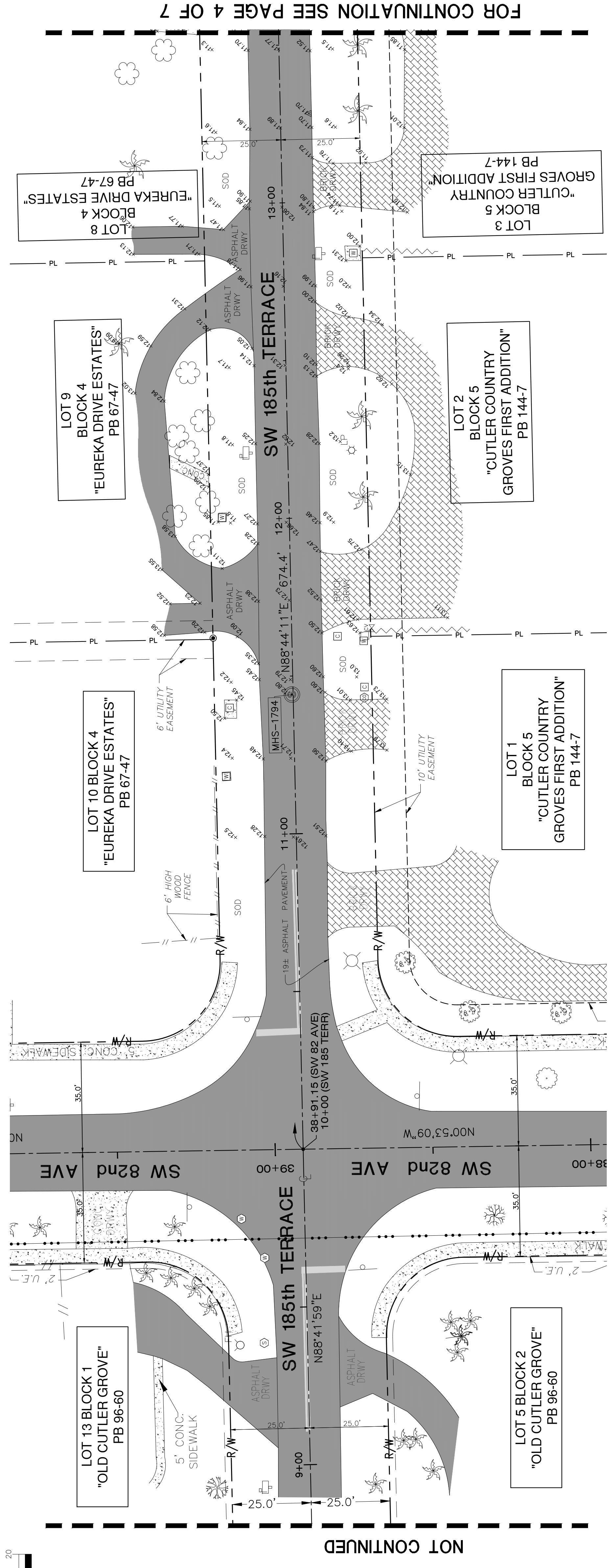
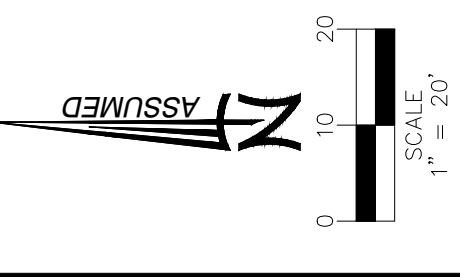
FOR CONTINUATION SEE PAGE 5 OF 7

SYMBOL	DESCRIPTION
○	FOUND IRON REBAR
○	FOUND IRON PIPE WITH CAP
○	PROPERTY LINE
—	R/W RIGHT-OF-WAY
—	CONCRETE BLOCK STUCCO
—	N.G.V.D. NATIONAL GEODETIC VERTICAL DATUM
—	PLAT BOOK
—	PAGE
—	F.N.D. FOUND NAIL & DISK
—	NUMBER OF PARKING SPACES
—	S.I.P. SET IRON PIPE
—	T.O.P. TOP OF PIPE
—	SI.W.K. SIDEWALK
—	P.O.B. POINT OF BEGINNING
—	N.T.S. NOT TO SCALE
—	T.B.M. TEMPORARY BENCH MARK
—	F.F.E. FINISH FLOOR ELEVATION
—	S.I.R. SET IRON REBAR
—	F.D.H. FOUND DRILL HOLE
—	F.I.P. FOUND IRON PIPE
—	F.I.R. FOUND IRON REBAR
—	C.B. CATCH BASIN
—	E.W.P. ELECTRICAL WALL PANEL
—	F.I.H. FIRE HYDRANT
—	D.C.I. DRAINAGE CURB INLET
—	B.P. BACKFLOW PREVENTOR
—	P.B. PEDESTRIAN SIGNAL
—	E.U.B. ELECTRIC UTILITY BOX
—	L.P. LIGHT POLE
—	A. ANCHOR
—	W.M. WATER METER
—	W.V. WATER VALVE
—	G.M. GREASE-TRAP MANHOLE
—	S.C.O. SANITARY SEWER CLEAN-OUT
—	S.S.M. SANITARY SEWER MANHOLE
—	S.V. SANITARY VALVE
—	M.D. MANDREL
—	D.M. DRAINAGE MANHOLE
—	S.M.A. SIGNAL MAST ARM
—	I.V. IRRIGATION VALVE
—	P. POST
—	M.B. MAILBOX
—	C.U.P. CONCRETE UTILITY POLE
—	G. GUARDRAIL
—	F.T. FPL TRANSFORMER
—	W.U.P. WOOD UTILITY POLE
—	T.B. TRAFFIC BOX
—	U.N. UTILITY STRUCTURE NUMBER
—	C.S.W. CBS WALL
—	W.F. WOOD FENCE
—	I.R.G. IRON ROLLING GATE
—	I.S.G. IRON SWING GATE
—	C.L.F. CHAIN-LINK FENCE
—	C.L.R.G. CHAIN-LINK ROLLING GATE
—	C.L.S.G. CHAIN-LINK SWING GATE
—	F.O. FENCE-OTHER
—	T. TREE
—	P.T. PALM TREE
—	P.L. PROPERTY LINE
—	R.W. RIGHT-OF-WAY
—	E. EASEMENT LINE
—	X-U.D. X-UTILITY-DRAIN
—	X-U.S. X-UTILITY-SANITARY
—	O.E.L. OVERHEAD UTILITY LINE
—	E.E. ELEVATION
—	B. BRICK
—	C. CONCRETE
—	T. TILE
—	A.P. ASPHALT PAVEMENT
—	H.T.S. HANDICAP TACTILE STRIP

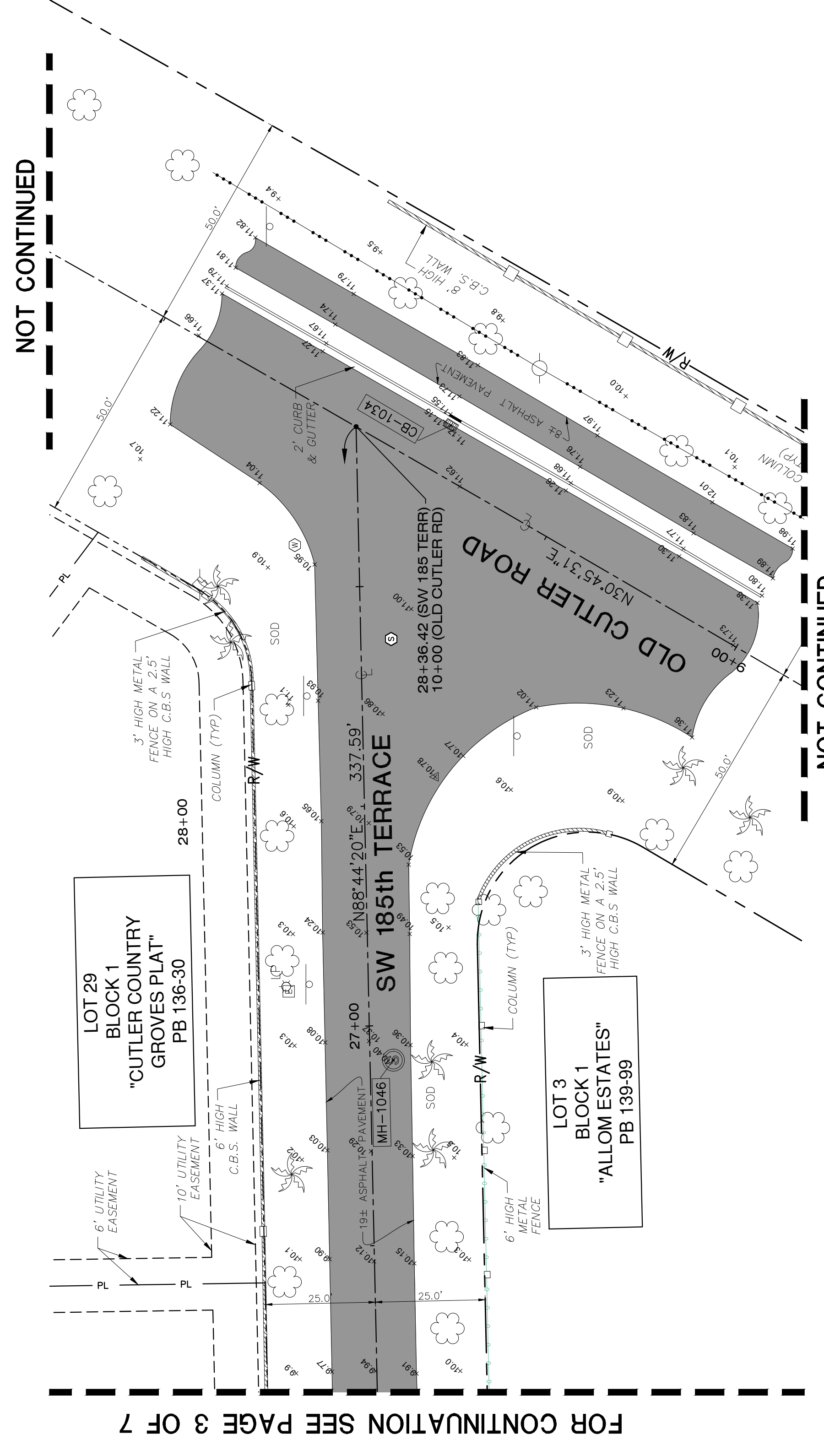
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# MAP OF TOPOGRAPHIC SURVEY



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FOR CONTINUATION SEE PAGE 3 OF 7

NOT CONTINUED

NOT CONTINUED

NO.	STRUCTURE	RIM	DIRECTION	INVERT	DESCRIPTION
169	CB	8.93	NORTH		TRENCH
			SOUTH	-9.07	TRENCH
170	MHS	9.4	NORTH	-3.7	METAL 18"
			EAST	-3.35	PVC 10"
171	CB	9.12	SOUTH	-3.6	METAL 18"
			NORTH		TRENCH
			EAST		TRENCH
223	MHS	11.35	EAST	-3.85	METAL 18"
			SOUTH	-3.7	METAL 18"
			WEST	-3.75	METAL 18"
368	CB	9	EAST		TRENCH
			SOUTH		TRENCH
			BOTTOM	-11	TRENCH
439	MHS	10.5	EAST	-3.25	METAL 18"
			EAST	-2.9	PVC 10"
			EAST	3	PVC 10"
584	CB	8.39	SOUTH	-3.15	METAL 18"
			NORTH		TRENCH
			BOTTOM		TRENCH
585	MHS	8.77	BOTTOM	-7.61	METAL 18"
			NORTH	-2.93	METAL 18"
			EAST	-2.63	PVC 18"
586	CB	8.41	SOUTH	-2.88	METAL 18"
			NORTH		TRENCH
			EAST		TRENCH
718	CB	6.86	BOTTOM	-8.29	TRENCH
			EAST		TRENCH
719	CB	6.89	SOUTH	-3.14	TRENCH
			BOTTOM		TRENCH
720	CB	7	NORTH	-10.51	TRENCH
			SOUTH		TRENCH
721	MHS	7.48	BOTTOM	0.5	METAL 18"
			NORTH	-2.47	PVC 18"
			EAST	-2.27	PVC 18"
			EAST	1.88	PVC 18"
854	MHS	9.16	SOUTH	-2.42	METAL 18"
			NORTH	-2.14	METAL 18"
			SOUTH	-0.49	PVC 8"
855	CB	8.46	WEST	-2.04	METAL 18"
			NORTH		TRENCH
			EAST		TRENCH
906	MHS	8.42	BOTTOM	-9.54	TRENCH
			NORTHWEST	-0.68	PVC 8"
			EAST	-1.78	METAL 18"
			SOUTH	-0.28	PVC 8"
			WEST	-1.73	METAL 18"
1084	CB	11.17	SOUTH	6.17	PVC 24"
			BOTTOM	4.17	FORCE MAIN
1046	MHS	10.4	BOTTOM	7.9	TRENCH
			NORTH		TRENCH
1150	CB	6.44	BOTTOM		TRENCH
			SOUTH	-4.06	TRENCH
1152	CB	6.39	BOTTOM		TRENCH
			EAST		TRENCH
1154	MHS	7.63	BOTTOM	-2.81	PVC 10"
			NORTH	-1.47	METAL 18"
			EAST	-1.62	METAL 18"
			WEST	-1.57	METAL 18"
1216	CB	7.23	BOTTOM	2.23	TRENCH
			EAST		TRENCH
1312	MHS	8.38	EAST	-1.32	METAL 18"
			WEST	-1.27	METAL 18"
1313	CB	7.67	BOTTOM	-2.43	TRENCH
			BOTTOM		TRENCH
1373	CB	7.69	WEST	-7.31	TRENCH
			WEST		TRENCH
1574	CB	10.38	BOTTOM	2.18	TRENCH
			BOTTOM		TRENCH
1588	CB	8.67	NORTH		TRENCH
			SOUTH		TRENCH
			BOTTOM	-5.33	TRENCH
1593	CB	8.45	NORTH	-0.65	TRENCH
			BOTTOM		TRENCH
1594	MHS	9.33	NORTH	1.13	PVC 10"
			EAST	-0.87	METAL 18"
			SOUTH	-0.77	PVC 12"
			WEST	1.13	METAL 18"
1746	MHS	12.8	EAST	6.25	PVC 10"
			SOUTH	6.6	PVC 8"
			BOTTOM		FORCE MAIN
1793	MHS	11.11	BOTTOM	8.11	TRENCH
			WEST	3.77	PVC 10"
1794	MHS	11.27	EAST	3.67	PVC 10"
			EAST		TRENCH
1874	CB	7.61	BOTTOM	-2.39	TRENCH

FOR CONTINUATION SEE PAGE 4 OF 7

SYMBOL	DESCRIPTION
○	FOUND IRON REBAR
○	FOUND IRON PIPE WITH CAP
○	PROPERTY LINE
○	R/W RIGHT-OF-WAY
○	CONCRETE BLOCK STUCCO
○	N.S.V.D. NATIONAL GEODETIC VERTICAL DATUM
○	PLAT BOOK
○	PAGE
○	F.N.D. FOUND NAIL & DISK
○	S.I.P. SET IRON PIPE
○	TOP OF PIPE
○	SWK SIDEWALK
○	P.O.B. POINT OF BEGINNING
○	N.T.S. NOT TO SCALE
○	T.B.M. TEMPORARY BENCH MARK
○	F.F.E. FINISH FLOOR ELEVATION
○	S.I.R. SET IRON REBAR
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○	FIRE HYDRANT
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○	COMMUNICATION BOX
○	PEDESTRIAN SIGNAL
○	ELECTRIC UTILITY BOX
○	LIGHT POLE
○	GUY ANCHOR
○	WATER METER
○	WATER VALVE
○	MANHOLE
○	SAWTOOTH CLEAN-OUT
○	SAWTOOTH SEWER MANHOLE
○	SAWTOOTH SEWER VALVE
○	MANHOLE UNKNOWN
○	DRAINAGE MANHOLE
○	SIGNAL MAST ARM
○	IRRIGATION VALVE
○	POST
○	MAILBOX
○	CONCRETE UTILITY POLE
○	GUARDRAIL
○	FPL TRANSFORMER
○	WOOD UTILITY POLE
○	UTILITY STRUCTURE NUMBER
○	CEB WALL
○	WOOD FENCE
○	IRON FENCE
○	IRON ROLLING GATE
○	IRON SWING GATE
○	CHAIN-LINK FENCE
○	CHAIN-LINK ROLLING GATE
○	CHAIN-LINK SWING GATE
○	FENCE OTHER
○	TREE
○	PALM TREE
○	PROPERTY LINE
○	ESSENTIAL LINE
○	X-UTL-SANIT
○	X-UTL-SANIT
○	EXISTING UTILITY LINE
○	EXISTING ELEVATION
○	BRICK
○	BUILDING MATCH
○	CONCRETE
○	ASPHALT PAVEMENT
○	HANDICAP TACTILE STRIP

## LEGEND

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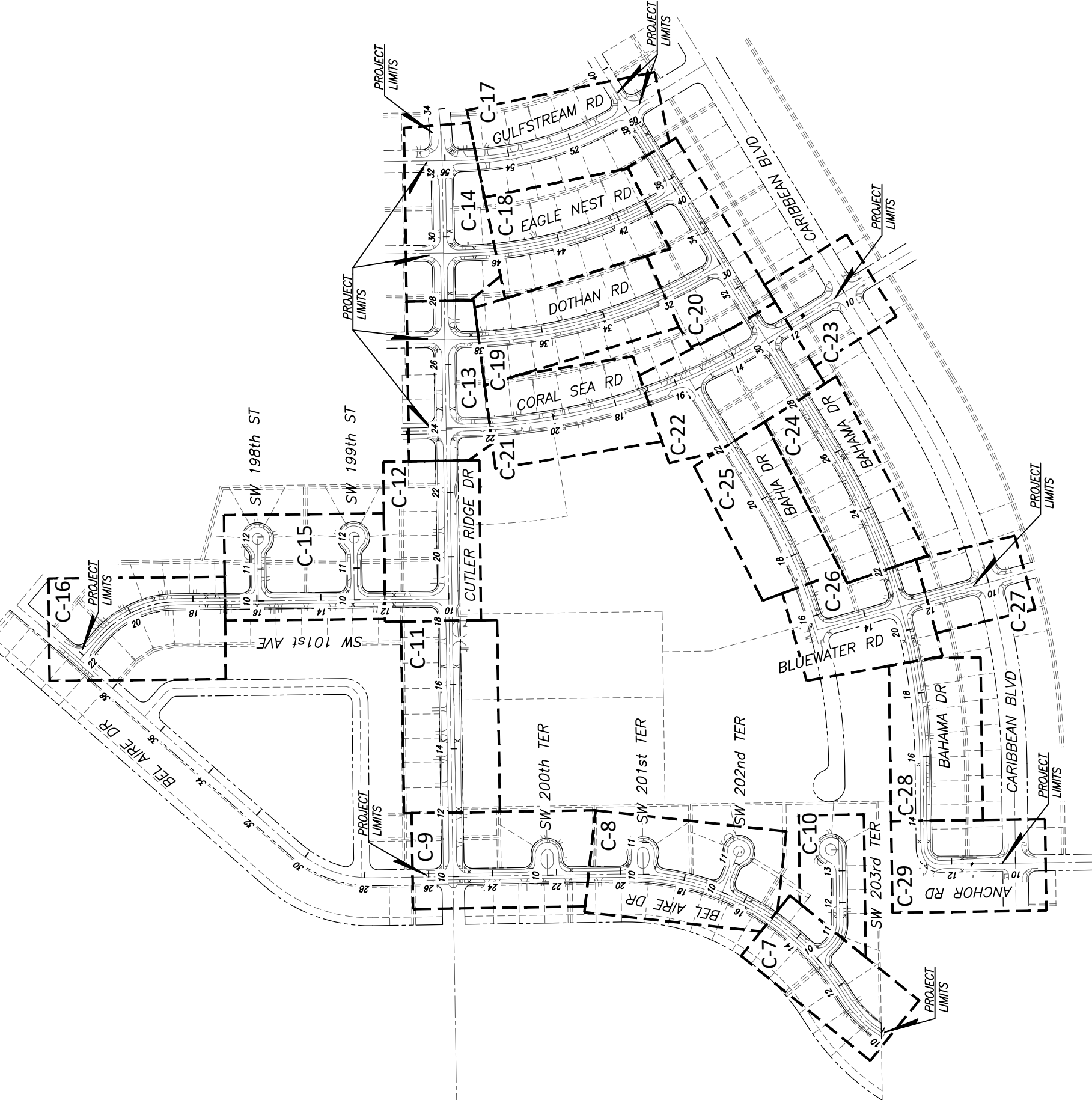
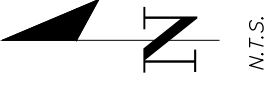


## **TOWN OF CUTLER BAY**

### **APPENDIX C**

- Project Plans
- Completed by SRS Engineering, Inc.





SCALE: AS SHOWN  
 PROJECT NO.: 2151  
 DWG. NO.:  
 SHEET: C-2

PROJECT LAYOUT

CUTLER BAY - ROADWAY & DRAINAGE IMPROVEMENTS AREA # 1

CUTLER BAY TOWN HALL  
 10720 CARIBBEAN BOULEVARD  
 CUTLER BAY, FL 33189  
 PHONE: (305) 234-4262  
 FAX: (305) 234-4251



**SRS**  
 ENGINEERING, INC.  
 CONSULTING ENGINEERS

5001 Southwest 74th Court, Suite 201  
 Miami, Florida 33155-4453  
 TEL: 305-662-8887, FAX: 305-662-8858  
 WWW.SRS-CORP.COM

EB-00007317

DESIGNED BY: C.B.  
 DRAWN BY: C.B.  
 CHECKED BY: J.C.F.  
 DATE: 12/6/2023

REV.	DATE	BY:	DESCRIPTION



GENERAL NOTES:

- 1 EXISTING TOPOGRAPHIC AND TREE LOCATION INFORMATION HAS BEEN OBTAINED FROM THE SURVEY PREPARED BY: HADONNE LAND SURVEYORS AND MAPPERS ON 03/31/2022.
- 2 ALL ELEVATIONS REFER TO THE NATIONAL GEODETIC VERTICAL DATUM OF 1929 (NGVD--29).
- 3 FLOOD CRITERIA ELEVATION IS 8.56 AND 9.06 FEET BASED ON MIAMI DADE COUNTY FLOOD CRITERIA MAPS. OCTOBER WATER LEVEL 3.00 AND 3.20  
<https://gis-mdc.opendata.arcgis.com/datasets/county-flood-criteria-2022/explore?location=25.582428%2C-80.334180%2C17.79&style=ELEV>
- 4 IN ACCORDANCE WITH MIAMI-DADE FLOOD ZONE MAP, THIS PROJECT IS LOCATED IN FLOOD ZONE "AH", BASE FLOOD ELEVATION = 7.00. AND ZONE "X"  
<https://mdc.maps.arcgis.com/apps/webappviewer/index.html?id=685a1c5e03c947d9a786df7b4ddb79d>
- 5 ALL PUBLIC LAND CORNERS AND MONUMENTS WITHIN THE LIMITS OF CONSTRUCTION ARE TO BE PROTECTED BY THE CONTRACTOR AS FOLLOWS: CORNERS AND MONUMENTS IN CONFLICT WITH THE WORK AND IN DANGER OF BEING DAMAGED, DESTROYED OR COVERED HAVE TO BE PROPERLY REFERENCED BY A PROFESSIONAL LAND SURVEYOR IN ACCORDANCE WITH THE MINIMUM TECHNICAL STANDARDS OF THE FLORIDA BOARD OF PROFESSIONAL LAND SURVEYORS PRIOR TO BEGINNING WORK AT THAT SITE. THE CONTRACTOR SHALL RETAIN THE LAND SURVEYOR OF REFERENCE, AND RESTORE UPON COMPLETION OF THE WORK. ALL SUCH CORNERS AND MONUMENTS AND SHALL FURNISH TO THE ENGINEER A SIGNED AND SEALED COPY OF THE LAND SURVEYOR'S REFERENCE DRAWING.
- 6 ALL BENCH MARK MONUMENTS WITHIN THE LIMITS OF CONSTRUCTION SHALL BE PROTECTED AND REFERENCED BY THE CONTRACTOR IN THE SAME WAY AS PUBLIC LAND CORNERS EXCEPT THAT THE LAND SURVEYOR SHALL NOT BE REQUIRED TO RESTORE THE BENCH MARK UPON COMPLETION OF THE WORK. THE CONTRACTOR SHALL PROMPTLY TRANSMIT ALL DISPLACED OR DAMAGED N.G.V.D. DISCS TO THE ENGINEER, WHO WILL NOTIFY THE GEODETIC INFORMATION CENTER.
- 7 ALL CONSTRUCTION ASSOCIATED WITH THIS PROJECT SHALL BE IN ACCORDANCE WITH APPLICABLE CODES & AUTHORITIES HAVING JURISDICTION, INCLUDING BUT NOT LIMITED TO THE TOWN OF CUTLER BAY PUBLIC WORKS DEPARTMENT, MIAMI-DADE DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS DEPARTMENT STANDARDS, THE FLORIDA DEPARTMENT OF TRANSPORTATION (FDOT), MIAMI-DADE COUNTY'S REGULATORY AND ECONOMIC RESOURCES (RER). ANY DISCREPANCY MUST BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE TOWN OF CUTLER BAY AND ENGINEER OF RECORD (EOR).
- 8 CONTRACTOR WILL SECURE AND PAY ALL PERMIT FEES FOR THE WORK NECESSARY TO COMPLETE THIS PROJECT. CONTRACTOR SHALL COORDINATE EFFORTS WITHIN THE CITY'S PUBLIC WORKS DEPARTMENT.
- 9 CONTRACTOR SHALL USE A STREET SWEEPER (USING WATER OR OTHER EQUIPMENT) FOR CONTROLLING AND REMOVING DUST. APPROVAL OF THE USE OF SUCH EQUIPMENT IS CONTINGENT UPON ITS DEMONSTRATED ABILITY TO DO THE WORK. CLEANING AND SWEEPING IS TO BE INCLUDED IN CONTRACTOR'S M.O.I. OR TRAFFIC PAY ITEM AND SHALL BE DONE ON A DAILY BASIS (MIN).
- 10 PERMANENT TURNOUTS AND DRIVEWAYS CONNECTIONS TO PRIVATE PROPERTY THAT LIE OUTSIDE THE LIMITS OF RIGHT-OF-WAY AND WHERE ACCESS RIGHTS HAVE NOT BEEN ACQUIRED SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE TURNOUT DETAILS AND STANDARD SPECIFICATIONS FOR THESE PLANS. THE CONTRACTOR SHALL NOT ISOLATE ADJACENT AND/OR THE REMAINDER OF THE PROPERTY UNLESS ACCESS RIGHTS ARE ACQUIRED. ACCESS SHALL BE PROVIDED TO SUCH PROPERTY WHENEVER CONSTRUCTION INTERFERES WITH THE EXISTING MEANS OF ACCESS.
- 11 48 HOURS PRIOR TO DIGGING CONTRACTOR SHALL COORDINATE WITH ALL UNDERGROUND UTILITY SERVICE COMPANIES TO VERIFY LOCATION OF ALL UNDERGROUND UTILITIES. ADDITIONALLY, CONTRACTOR SHALL CONTACT SUNSHINE STATE ONE CALL OF FLORIDA, INC. (811) TO ASSURE THAT ALL UTILITIES HAVE BEEN IDENTIFIED.
- 12 CONTRACTOR SHALL VERIFY, PHOTOGRAPH AND INVENTORY THE EXACT LOCATION OF ALL EXISTING TREES, STRUCTURES, PAVEMENT OR OTHER FEATURES. ANY EXISTING STRUCTURE, PAVEMENT, TREE OR OTHER EXISTING FEATURE THAT IS IN CONFLICT OR DAMAGED, EXPOSED OR IN ANY WAY DISTURBED BY CONSTRUCTION PERFORMED UNDER THE CONTRACT AND PROVIDE COPIES TO THE TOWN OF CUTLER BAY AND THE ENGINEER. THEY SHALL BE RESTORED PROMPTLY TO ITS ORIGINAL CONDITION AT NO ADDITIONAL COST TO THE PROJECT.
- 13 THE LOCATION AND SIZE OF THE UTILITIES SHOWN IN THE PLANS ARE APPROXIMATE ONLY. THE EXACT LOCATION SHALL BE DETERMINED BY THE CONTRACTOR DURING CONSTRUCTION. ADDITIONAL UTILITIES MAY EXIST WHICH ARE NOT SHOWN ON PLANS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE LOCATION OF ALL EXISTING UTILITIES. THE CONTRACTOR SHALL VERIFY ALL UTILITIES BY ELECTRONIC METHODS AND BY HAND EXCAVATION IN COORDINATION WITH ALL UTILITY COMPANIES, PRIOR TO BEGINNING ANY CONSTRUCTION OPERATION, ANY AND ALL CONFLICTS OF EXISTING UTILITIES WITH PROPOSED IMPROVEMENTS MUST BE RESOLVED BY THE ARCHITECT/ENGINEER AND THE OWNER. THIS WORK BY THE CONTRACTOR SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT AND NO ADDITIONAL COMPENSATION SHALL BE ALLOWED.

- 14 THE CONTRACTOR SHALL NOTIFY THE CITY IN WRITING AT LEAST 48 HOURS PRIOR TO THE COMMENCEMENT OF CONSTRUCTION.
- 15 UNDERGROUND UTILITY INFORMATION SHOWN HEREON WAS TAKEN FROM "AS-BUILT" DATA PROVIDED BY THE VARIOUS UTILITY COMPANIES AND SUPPLEMENTED BY FIELD MEASUREMENTS WHEN OBTAINABLE.
- 16 CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING A PROPER STAGING AREA APPROVED BY THE TOWN OF CUTLER BAY. STOCKPILING OF MATERIAL IN ROADWAY IS NOT ALLOWED.
- 17 UTILITIES NEEDED TO BE ADJUSTED WILL BE ADJUSTED BY OTHERS. CONTRACTOR WILL BE RESPONSIBLE FOR SCHEDULING THESE ADJUSTMENTS WITH THE UTILITY COMPANY.
- 18 THE CONTRACTOR SHALL REQUEST THE LOCATION OF ANY WATER, SEWER OR GAS LATERALS NOT SHOWN IN THE PLANS SERVICING PROPERTIES ADJACENT TO THE PROJECT BEFORE EXCAVATING, THE ADDITIONAL COST OF EXCAVATING AROUND THE LATERALS SERVICING SAID PROPERTIES SHALL BE INCLUDED IN HIS BID.
- 19 THE CONTRACTOR IS TO USE CAUTION WHEN WORKING, SPECIALLY IN OR AROUND AREAS OF OVERHEAD TRANSMISSION LINES AND UNDERGROUND UTILITIES.
- 20 ANY WATER AND SEWER LINES TO BE ADJUSTED SHALL BE APPROVED BY THE MIAMI-DADE DEPARTMENT OF WATER AND SEWER. THE CONTRACTOR SHALL NOTIFY THE TOWN OF CUTER BAY FOR ANY CONFLICTS DURING CONSTRUCTION FOR ANY IMPROVEMENTS SHOWN ON THE DRAWINGS
- 21 ALL EXISTING ROCK BASE MATERIAL WHICH IS REMOVED IS TO BE INCORPORATED IN THE STABILIZED PORTION OF THE SUBGRADE, AS DIRECTED BY THE ENGINEER.
- 22 NONE OF THE EXISTING ROCK BASE THAT IS REMOVED IS TO BE INCORPORATED INTO THE PROPOSED LIMEROCK BASE
- 23 ALL DISPOSAL OF EXCESS AND UNSUITABLE EXCAVATED MATERIAL, DEMOLITION, VEGETATION, RUBBISH AND DEBRIS SHALL BE MADE OUTSIDE THE LIMITS OF CONSTRUCTION AT A LEGAL DISPOSAL SITE PROVIDED BY THE CONTRACTOR AT HIS/HER OWN EXPENSE. WITH THE PRIOR APPROVAL OF THE ENGINEER. MATERIAL CLEARED FROM THE SITE SHALL NOT BE DEPOSITED ON ADJACENT AND/OR NEARBY PROPERTY.
- 24 ALL EXCESS MATERIALS AS DESIGNATED BY THE ENGINEER ARE TO BE DISPOSED OF BY THE CONTRACTOR IN AREAS PROVIDED BY HIM AND AT THE CONTRACTOR'S EXPENSE.
- 25 ALL DRAINAGE CONSTRUCTION SHALL BE IN STRICT ACCORDANCE WITH THE REQUIREMENTS OF TOWN OF CUTLER BAY AND MIAMI-DADE COUNTY DEPARTMENT OF REGULATORY AND ECONOMIC RESOURCES (RER).
- 26 CONTRACTOR TO PROTECT EXISTING INLETS AND DRAINAGE COMPONENTS, ADJACENT TO CONSTRUCTION, THAT MAY BE SILTED OR EXPOSED TO DEBRIS, DURING CONSTRUCTION. INLETS AND OTHER DRAINAGE COMPONENTS THAT ARE SILTED OR FULL OF DEBRIS AFTER CONSTRUCTION TO BE DESILTED/CLEANED BY CONTRACTOR PRIOR TO FINAL INSPECTION AND ACCEPTANCE.
- 27 ALL GRASS AREAS AFFECTED BY CONSTRUCTION SHALL BE RESODDED.
- 28 ALL UNSUITABLE MATERIAL UNDER THE PAVEMENT SHALL BE REMOVED AND REPLACED WITH ACCEPTABLE MATERIALS BEFORE PROCEEDING WITH CONSTRUCTION.
- 29 ALL MUCK AND ORGANIC MATERIALS FOUND WITHIN THE CONSTRUCTION AREA SHALL BE REMOVED AND REPLACED WITH CLEAN FILL MATERIAL IN 6 INCH LIFTS COMPACTED TO NOT LESS THAN 95% MAXIMUM DENSITY AT OPTIMUM MOISTURE IN ACCORDANCE WITH AASHTO T-180.
- 30 THE CONTRACTOR SHOULD TAKE SPECIAL NOTE OF THE SOIL CONDITIONS THROUGHOUT THIS PROJECT. ANY SPECIAL SHORING, SHEETING OR OTHER PROCEDURES NECESSARY TO PROTECT ADJACENT PROPERTY, EITHER PUBLIC OR PRIVATE, DURING EXCAVATION OF SUBSOIL MATERIAL AND EXFILTRATION TRENCH OR DURING THE FILING OF ANY AREA, OR FOR ANY OPERATION DURING CONSTRUCTION SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR, THE ONLY EXCEPTION WILL BE THE PROTECTION OF UTILITIES. ALL UTILITIES SHALL BE MAINTAINED BY THE OWNER OF THE UTILITY.
- 31 ANY PUBLIC OR PRIVATE PROPERTY DAMAGED BY CONTRACTOR AT ANY TIME DURING CONSTRUCTION SHALL BE REPLACED OR REPAIRED TO ORIGINAL CONDITION, AT NO EXPENSE TO THE OWNER OR THE TOWN OF CUTLER BAY.
- 32 EXISTING CHAIN LINK FENCE, CONCRETE WALL AND METAL FENCE WITHIN THE LIMITS OF CONSTRUCTION SHALL BE PROTECTED UNLESS OTHERWISE INDICATED.
- 33 CONTRACTOR SHALL ADJUST ALL EXISTING VALVES BOXES, CATCH BASINS GRATES, MANHOLES COVERS, ETC. TO MEET NEW GRADES WHERE APPLICABLE.
- 34 ALL VALVES, A.R.V.'S, AND MANHOLES TO BE RAISED AND ADJUSTED TO PROPOSED ROADWAY ELEVATION.
- 35 SODDING TO BE USED AT LOCATIONS WHERE EXISTING LAWNS ARE DISTURBED OR AS DIRECTED BY THE ENGINEER.

- 36 ALL TREES ARE TO REMAIN, UNLESS OTHERWISE DIRECTED BY THE ENGINEER. CONTRACTOR MUST TAKE CARE NOT TO DAMAGE ANY TREE OR PALM WITHIN CONSTRUCTION AREA. SMALL TREES OR PALMS MAY BE RELOCATED AS DIRECTED BY THE TOWN OF CUTLER BAY. TREE PERMIT MUST BE OBTAINED PRIOR TO CONSTRUCTION. THERE ARE LARGE TREES WITH EXTENSIVE ROOT NETWORKS ON THE GROUND THAT ARE IMPACTING ADJACENT SIDEWALKS, CURBS AND PAVEMENT. THE CONTRACTOR SHALL BE REQUIRED TO COORDINATE WITH AN ARBORIST TO ENSURE THAT ROOT AND TREE PRUNING ACTIVITIES ARE CONDUCTED IN A MANNER THAT IT DOES NOT HARM OR DESTROY THE TREE.
- 37 RADI ON CURB RETURNS ARE TO THE EDGE OF PAVEMENT UNLESS OTHERWISE NOTED.
- 38 PROVIDE A SMOOTH TRANSITION WHERE NEW PAVEMENT, SIDEWALK, OR CURB MEETS EXISTING GRASS AREAS.
- 39 PRIOR TO REMOVAL AND/OR RELOCATION OF EXISTING TREES, IF REQUIRED, THE CONTRACTOR MUST OBTAIN APPROVAL FROM THE TOWN OF CUTLER BAY AS WELL AS D.E.R.M. OTHERWISE CONTRACTOR SHALL PROTECT EXISTING TREES WHERE APPLICABLE WITHIN THE LIMITS OF CONSTRUCTION
- 40 WHERE NEW PAVEMENT MEETS EXISTING CONNECTION SHALL BE MADE IN A NEAT STRAIGHT LINE AND FLUSH WITH EXISTING PAVEMENT. SAW CUT AT EXISTING PAVEMENT JOINT MATCHING TO NEW PAVEMENT.
- 41 ANY DISCREPANCY FOUND BETWEEN THE PLANS AND THE QUANTITIES SHEET MUST BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE MUNICIPALITY/COUNTY AND ENGINEER OF RECORD (EOR). AN R.F.I. MUST BE PROVIDED AND SHOULD OUTLINE THE SPECIFIC ISSUE OR DISCREPANCY. PROVIDE SUPPORTING DOCUMENTATION OR EVIDENCE, AND SEEK CLARIFICATION OR APPROVAL BEFORE PROCEEDING WITH THE PROJECT/TASK.

DRAINAGE

- 1 CONTRACTOR SHALL KEEP NEW AND EXISTING INLETS CLEAN OF PAVING MATERIALS AND DEBRIS. INLETS LOCATED NEAR CONSTRUCTION ACTIVITIES SHOULD BE PROTECTED BY APPROPRIATE EROSION CONTROL DEVICES.
- 2 THERE SHALL BE NO MORE THAN 3 LATERAL DRAINAGE INSTALLATION WITHOUT BACKFILLING. LATERAL DRAINAGE SHALL NOT LAG MORE THAN 72 HOURS BEHIND THE START OF EXCAVATION.
- 3 GRADES SHOWN ARE "FINISHED" GRADES.
- 4 DRAINAGE SYSTEM SHALL BE CLEANED AND DESILTED PRIOR TO PW FINAL INSPECTION APPROVAL.
- 5 EXISTING STRUCTURES AND PIPES TO REMAIN WITHIN LIMITS OF CONSTRUCTION SHALL BE VACUUM CLEANED.
- 6 ANY EXISTING DRAINAGE COMPONENTS TO REMAIN THAT ARE DAMAGED AS A RESULT OF THE CONSTRUCTION ARE TO BE RESTORED TO EXISTING EQUIVALENT OR BETTER CONDITIONS AT THE CONTRACTOR'S EXPENSE.

PRE-CONSTRUCTION RESPONSIBILITIES

- 1 PRIOR TO THE COMMENCEMENT OF THE CONSTRUCTION AND THE RECEIPT OF THE "NOTICE TO PROCEED" THE CONTRACTOR SHALL CONTACT THE TOWN OF CUTLER BAY AND ARRANGE A PRE-CONSTRUCTION CONFERENCE TO INCLUDE THE ENGINEER OF RECORD. THE CONTRACTOR SHALL SUBMIT A CONSTRUCTION SCHEDULE AND BE PREPARED TO DISCUSS ANY CONCERNS OR COORDINATION EFFORTS AND REQUIREMENTS WITH THE PARTIES INVOLVED.
- 2 THE CONTRACTOR SHALL OBTAIN A SUNSHINE STATE ONE CALL OF FLORIDA, INC. CERTIFICATION NUMBER AT LEAST 48 HOURS PRIOR TO BEGINNING ANY EXCAVATION. CONTACT 811, WWW.SUNSHINE811.COM

PROJECT RECORD DOCUMENTS

- 1 DURING THE DAILY PROGRESS OF THE JOB THE CONTRACTOR SHALL RECORD THE EXACT LOCATION, LENGTH, AND ELEVATION OF ALL PROPOSED IMPROVEMENTS ON HIS SET OF CONSTRUCTION DRAWINGS.
- 2 UPON COMPLETION OF CONSTRUCTION AND PRIOR TO FINAL PAYMENT, THE CONTRACTOR SHALL SUBMIT TO THE ENGINEER TWO COMPLETE SETS OF ALL "AS-BUILT" CONSTRUCTION DRAWINGS, THE DRAWINGS SHALL INCLUDE CHANGES AND DIMENSIONS, LOCATIONS AND ELEVATIONS OF ALL IMPROVEMENTS AND SHALL BE IN ACCORDANCE WITH THE "SURVEY WORK" SECTION OF THE "SPECIFICATIONS AND CONTRACT DOCUMENTS" FOR THIS PROJECT.
- 3 ALL "AS-BUILT" INFORMATION AND ELEVATIONS SHALL BE CERTIFIED BY A FLORIDA REGISTERED LAND SURVEYOR AND ALL FINAL MEASUREMENTS ARE TO BE IN THE FORM OF FIELD NOTES, PLANS AND CD (PDF FORMAT).

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Miami, Florida 33152-4453  
TEL: 305-662-8887 FAX: 305-662-8858  
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EP-00007317

CUTLER BAY  
TOWN HALL  
10720 CARIBBEAN  
BOULEVARD  
CUTLER BAY, FL 33189  
PHONE: (305) 234-4262  
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CUTLER BAY - ROADWAY & DRAINAGE IMPROVEMENTS  
AREA # 1

GENERAL NOTES

SCALE:	AS SHOWN
PROJECT NO.:	2151
DWG. NO.:	
SHEET:	C-3.0



UTILITIES

- 1 TWO FULL BUSINESS DAYS (48 HOURS) PRIOR TO DIGGING, THE CONTRACTOR SHALL CONTACT 811, WWW.SUNSHINE811.COM TO REQUEST UTILITY LOCATIONS BEFORE BEGINNING ANY CONSTRUCTION ACTIVITIES.
- 2 EXISTING UTILITIES SHALL BE MAINTAINED IN SERVICE DURING CONSTRUCTION UNLESS OTHERWISE APPROVED BY THE UTILITY OWNER. ALL EXISTING UTILITIES ARE TO REMAIN UNLESS OTHERWISE NOTED.
- 3 IT SHALL BE THE CONTRACTOR'S SOLE RESPONSIBILITY TO (VERTICALLY AND HORIZONTALLY) PROTECT ALL EXISTING UTILITIES ON THIS PROJECT. ANY DAMAGE TO UTILITIES SHALL BE IMMEDIATELY REPORTED TO THE UTILITY OWNER. THE OWNER RESERVES THE RIGHT TO REMEDY SUCH DAMAGE BY ORDERING OUTSIDE PARTIES TO MAKE SUCH REPAIRS AT THE EXPENSE TO THE CONTRACTOR.
- 4 THE CONTRACTOR IS ADVISED THAT PROPERTIES ADJACENT TO THE PROJECT HAVE ELECTRIC, TELEPHONE, GAS, WATER AND/OR SEWER SERVICE LATERALS WHICH MAY NOT BE SHOWN IN PLANS. THE CONTRACTOR MUST REQUEST THE LOCATION OF THESE LATERAL SERVICES FROM THE UTILITY COMPANIES. THE ADDITIONAL COST OF EXCAVATING, INSTALLING, BACKFILLING AND COMPACTING AROUND THESE LATERAL SERVICES MUST BE INCLUDED IN THE BID RELATED ITEM FOR THE WORK BEING DONE.
- 5 UTILITY OWNERS:  
 - ATLANTIC BROADBAND 786-251-5989 - FLORIDA POWER & LIGHT 386-586-6403  
 - COMCAST CABLE 954-447-8405 - LEVEL 3 COMMUNICATIONS 786-256-1554  
 - FLORIDA CITY GAS 786-575-8547 - M-D WATER & SEWER 786-288-5320  
 - PUBLIC WORKS & TRAFFIC 786-345-0986 - AT&T 561-997-0240

ENVIRONMENTAL NOTES

- 1 DUE TO THE LIMITED SCOPE OF WORK, NO IMPACTS TO EXISTING HISTORICAL AND CULTURAL RESOURCES ARE EXPECTED AS A RESULT OF THE PROPOSED ACTION.
- 2 NO STAGING OR OTHER ACTIVITIES FOR THIS PROJECT SHOULD OCCUR WITHIN THE DRIPLINE OF EXISTING TREES.
- 3 PREVENT DAMAGING TREES AND PLANTERS WITHIN OR IMMEDIATELY ADJACENT TO THE PROJECT'S RIGHT-OF-WAY.
- 4 AN ARBORIST CERTIFIED BY THE INTERNATIONAL SOCIETY OF ARBORICULTURE SHALL BE PRESENT ON SITE TO MONITOR CONSTRUCTION ACTIVITIES NEAR EXISTING TREES AND DIRECT ALL ROOT PRUNING AND/OR CANOPY TRIMMING ACTIVITIES.
- 5 TREE PROTECTION SHOULD BE INSTALLED AROUND TREES TO REMAIN LOCATED ADJACENT TO CONSTRUCTION ACTIVITIES PER FDOT STANDARDS PLANS FY 2023-24, INDEX 110-100
- 6 THE CONTRACTOR SHALL NOT REMOVE, RELOCATE OR PRUNE ANY TREES WITHOUT PRIOR APPROVAL FROM THE TOWN. THE CONTRACTOR SHALL OBTAIN ALL REQUIRED PERMITS FROM THE TOWN OF CUTLER BAY PUBLIC WORKS DEPARTMENT PRIOR TO ANY TREE REMOVAL/RELOCATION.
- 7 CONTRACTOR SHALL REMOVE/CONTROL DUST USING WATER OR OTHER EQUIPMENT CAPABLE OF CONTROLLING DUST.
- 8 THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING A DERM CLASS V DEWATERING PERMIT IF DEWATERING IS PROPOSED.

TRAFFIC CONTROL PLANS

- 1 TRAFFIC CONTROLS SHALL BE IN ACCORDANCE WITH THE PROJECT PLANS, THE CURRENT EDITION OF THE FDOT, STANDARDS PLANS FY 2023-24 (102 SERIES), THE STANDARD SPECIFICATION FOR ROAD AND BRIDGE CONSTRUCTION, AND 2009 (MUTCD) MANUAL OF UNIFORM CONTROL DEVICE FOR STREETS AND HIGHWAYS, EDITION WITH REVISION NUMBERS 1, 2, AND 3, DATED JULY 2022
- 2 NOTIFICATION OF LANE CLOSURES OR TEMPORARY DETOURS SHALL BE ACCOMPLISHED 14 WORKING DAYS PRIOR TO CLOSURE. DETOUR OR MOT PHASE CHANGE SHALL BE SUBMITTED WITH THE REQUIRED LANE CLOSURE FORM, SKETCHES, CALCULATIONS, AND OTHER DATA TO PUBLIC WORKS DEPT.
- 3 AT THE DISCRETION OF THE ENGINEER, IF A LANE CLOSURE CAUSES EXTENDED CONGESTION OR DELAY, THE CONTRACTOR SHALL BE DIRECTED TO REOPEN THE CLOSED LANE(S) UNTIL SUCH TIME THAT THE TRAFFIC FLOW HAS RETURNED TO AN ACCEPTABLE LEVEL.
- 4 THE TRAFFIC AND TRAVEL WAYS SHALL NOT BE ALTERED BY THE CONTRACTOR TO CREATE A WORK ZONE UNTIL ALL LABOR AND MATERIAL ARE AVAILABLE FOR THE CONSTRUCTION IN THAT AREA.
- 5 LANE CLOSURE SHALL OCCUR ONLY DURING NON-PEAK HOURS ON NON-EVENT DATES/NIGHTS/WEEKENDS. NON PEAK HOURS 9:00 AM TO 3:30 PM WEEKDAYS AND SATURDAYS. EXCEPTIONS MAY BE GRANTED UPON WRITTEN REQUEST TO THE CITY.
- 6 TRAFFIC CONTROL PLANS FOR ALL PHASES ARE DESIGNED FOR NON-PEAK HOURS ONLY. THE CONTRACTOR SHALL KEEP ALL EXISTING LANES OPEN DURING PEAK HOURS IN THESE PHASES.

DESIGNED BY:	G.B.
DRAWN BY:	G.B.
CHECKED BY:	J.C.F.
DATE:	12/6/2023



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- 7 AS DETERMINED BY THE ENGINEER, THE CONTRACTOR SHALL COVER WORK ZONE SIGNS WHEN CONDITIONS NO LONGER WARRANT THEIR USE. COST OF COVERING AND UNCOVERING THE SIGNS SHALL BE INCLUDED IN MAINTENANCE OF TRAFFIC PAY ITEM.
- 8 CONTRACTOR SHALL BE RESPONSIBLE FOR THE IMMEDIATE REMOVAL OF STORM WATER FROM ROADWAYS UTILIZED FOR MAINTAINING TRAFFIC IN A MANNER APPROVED BY THE ENGINEER. COST FOR REMOVING THE WATER SHALL BE INCLUDED IN MAINTENANCE OF TRAFFIC PAY ITEM.
- 9 TEMPORARY LANE TRANSITIONS, SHIFTS, AND CROSSEOVERS SHALL HAVE SOLID LANE AND EDGE LINES FOR THE LENGTH OF THE TRANSITION, SHIFT OR CROSSEOVER. IN ADDITION, SOLID LANE AND EDGE LINES SHALL EXTEND 100 FT ON TANGENT BEYOND EACH END OF THE TRANSITION, SHIFT, OR CROSSEOVER. EXCEPTION SHALL BE THROUGH INTERSECTIONS WHERE 2 FT TO 4 FT SKIP LINES WILL BE PLACED.
- 10 ALL TEMPORARY STRIPES AND MARKINGS SHALL BE PAINT ONLY, UNLESS OTHERWISE SPECIFIED ON THE PLANS OR APPROVED BY THE ENGINEER. COST OF TEMPORARY STRIPING SHALL BE INCLUDED IN MOT PAY ITEM.
- 11 EACH EXISTING STREET NAME AND STOP SIGN AFFECTED BY CONSTRUCTION SHALL BE RELOCATED AND MAINTAINED IN AN APPROPRIATE LOCATION FOR THE DURATION OF THE PROJECT. WHEN NO LONGER AFFECTED BY CONSTRUCTION, THESE SIGNS SHALL BE RESTORED TO THEIR ORIGINAL POSITION. COST OF TEMPORARILY RELOCATING AND RESTORING THE SIGNS SHALL BE INCLUDED IN MAINTENANCE OF TRAFFIC PAY ITEM.
- 12 FOR DROP OFFS, THE CONTRACTOR'S SHALL FOLLOW TO THE FDOT, STANDARDS PLANS FY 2023-24 INDEX NO. 102-600 SHEET 8 OF 11. THE CONTRACTOR SHALL USE SHOULDER TREATMENT DETAIL WHEN NO BARRIERS ARE REQUIRED IN THE PLANS
- 13 CONTRACTOR SHALL PREPARE AND SUBMIT AN ACCEPTABLE MOT PLAN FOR THE PROJECT. THE MOT PLAN SHALL BE SUBMITTED TO THE TOWN OF CUTLER BAY'S PUBLIC WORKS DEPARTMENT FOR REVIEW AND APPROVAL.
- 14 LANE CLOSURES SHALL NOT BE PERMITTED DURING SCHOOL SPEED ZONE HOURS WHERE SUCH CLOSURES WILL AFFECT TRAFFIC FLOW IN THE VICINITY OF THE SCHOOL SPEED ZONES.

WORK ZONE LIMITS

- 1 THE LENGTH OF AN OPEN TRENCH SHALL NOT EXCEED 500 FT. PROPERTY ACCESS SHALL BE MAINTAINED IN ACCORDANCE TO ARTICLE 102- 5.5 OF THE FDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION LATEST EDITION.
- 2 NO MORE THAN TWO BLOCKS OF STREET SHALL BE UNDER CONSTRUCTION AT A TIME AND ALL WORK AND RESTORATION SHALL BE COMPLETED ON ONE OF SUCH BLOCKS BEFORE WORK MAY BEGIN IN A NEW BLOCK. FINAL RESURFACING SHALL BE PLACED WITHIN 48 HOURS OF THE MILLING OPERATION.

INTERSECTIONS

- 1 ADJACENT INTERSECTIONS SHALL NOT BE CONSTRUCTED SIMULTANEOUSLY UNLESS DIRECTED BY THE ENGINEER
- 2 INTERSECTIONS SHALL BE RECONSTRUCTED WORKING ON A CONTINUOUS DAILY BASIS UNTIL COMPLETE AND UNTIL THE STRUCTURAL COURSE IS PLACED.
- 3 M.O.T. TRANSITIONS AND TEMPORARY INTERSECTION CROSSEOVERS WHERE CONSTRUCTION HAS CAUSED GRADE DIFFERENCES BETWEEN THE EXISTING AND NEW ROADWAYS SHALL BE CONSTRUCTED USING A 1:20 TYPE SP ASPHALT CONCRETE SLOPE TO ACCOMMODATE VEHICULAR TRAFFIC FROM ANY DIRECTION. ALL MATERIAL AND WORK, INCLUDING ITS REMOVAL, SHALL BE INCLUDED IN MAINTENANCE OF TRAFFIC PAY ITEM.

PEDESTRIANS, BICYCLES, AND WHEELCHAIRS

- 1 AT THE END OF EACH WORK DAY OR WHENEVER THE WORK ZONE BECOMES INACTIVE, ANY DROP OFF GREATER THAN 6 IN. ADJACENT TO THE PEDESTRIAN, BICYCLE, AND WHEELCHAIR TRAVEL PATHS SHALL BE BACKFILLED FLUSH WITH THE SAID PATHS OR PROTECTED WITH TEMPORARY FENCE. CONCRETE BARRIER WALL OR APPROVED HANDRAIL. COST SHALL BE INCLUDED IN THE PAY ITEM 102-1, MAINTENANCE OF TRAFFIC.
- 2 CONSTRUCTION ACTIVITIES THAT INVOLVES SIDEWALKS ON BOTH SIDES OF THE STREET ARE NOT ALLOWED UNLESS APPROVED BY THE ENGINEER.

SIGNING AND PAVEMENT MARKINGS

- 1 ALL SIGNING AND PAVEMENT MARKINGS SHALL CONFORM WITH THE CURRENT EDITION OF THE FDOT, STANDARDS PLANS FY 2023-24, THE 2023 FDOT DESIGN MANUAL, AND 2009 (MUTCD) MANUAL OF UNIFORM CONTROL DEVICE FOR STREETS AND HIGHWAYS
- 2 ALL EXISTING SIGNS ARE TO REMAIN UNLESS OTHERWISE SPECIFIED. BEFORE STARTING THE PROJECT, THE CONTRACTOR WILL REVIEW EXISTING SIGNS SHOWN ON THE PLANS TO BE RELOCATED OR TO REMAIN. THE CONTRACTOR WILL NOTIFY IN WRITING TO THE PROJECT ENGINEER OF ANY MISSING SIGNS BEFORE CONSTRUCTION STARTS. SIGNS DAMAGED BY THE CONTRACTOR'S OPERATIONS WILL BE REPLACED AT NO COST TO THE DEPARTMENT. IF EXISTING SIGNS TO BE RELOCATED HAVE A DAMAGED POLE OR A POLE NOT MEETING HEIGHT SPECIFICATION REQUIREMENTS, THE COST OF A NEW POLE WILL BE INCLUDED IN THE RELOCATION BID ITEM.

- 3 ALL PAVEMENT MARKINGS, MESSAGES, AND ARROWS SHALL BE THERMOPLASTIC UNLESS OTHERWISE NOTED.
- 4 REFLECTIVE PAVEMENT MARKERS ARE TO BE PLACED AS INDICATED
- 5 MATCH EXISTING PAVEMENT MARKINGS AT THE BEGINNING AND AT THE END OF THE PROJECT AND AT ALL SIDE STREETS WITHOUT JOGS OR OFFSETS.
- 6 THE CONTRACTOR SHALL REMOVE EXISTING MARKINGS BY FDOT APPROVED METHOD WITHOUT DAMAGE TO THE FRICTION COURSE.
- 7 SIGN ASSEMBLY LOCATIONS SHOWN ON PLANS WHICH ARE IN CONFLICT WITH LIGHTING, UTILITIES, DRIVEWAYS, WHEELCHAIR RAMPS, ETC. MAY BE ADJUSTED SLIGHTLY AS DIRECTED BY THE ENGINEER. EXTREME LOCATION CHANGES MUST BE APPROVED BY MIAMI-DADE SIGNALS AND SIGNS DIVISION.
- 8 THE CONTRACTOR SHALL RELOCATE ALL EXISTING POST-MOUNTED STREET NAME AND STOP SIGNS TO A VISIBLE AREA UNDISTURBED BY THE CONSTRUCTION SO AS TO MINIMIZE DAMAGE TO THE SIGNS. NEW STREET NAME SIGNS WILL BE ATTACHED AT THE TOP OF THE NEW STOP SIGNS ON MINOR SIDE STREETS AT THE END OF CONSTRUCTION.
- 9 EXTRUDED ALUMINUM SIGN SUPPORT CLAMPS ARE NOT ACCEPTABLE. ALL RELOCATED SIGNS MUST COMPLY WITH THE FDOT, STANDARDS PLANS FY 2023-24, INDEX 700-010 AS IF THEY WERE NEW SIGNS. IF EXISTING CLAMPS, BRACKETS, POLES, ETC. NEED TO BE REPLACED THE COST SHALL BE INCLUDED IN THE RELOCATION PAY ITEM.
- 10 REFLECTIVE PAVEMENT MARKERS AS PER FDOT STANDARD INDEX NO 706-001
- 11 NEW STREET NAME SIGNS SHALL BE PER MIAMI DADE COUNTY STANDARDS AND MUTCD.

**CUTLER BAY - ROADWAY & DRAINAGE IMPROVEMENTS AREA # 1**

CUTLER BAY TOWN HALL  
 10720 CARBEEBAN BOULEVARD  
 CUTLER BAY, FL 33189  
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

**GENERAL NOTES**

SCALE: AS SHOWN  
 PROJECT NO.: 2151  
 DWG. NO.:  
 SHEET: C-3.1







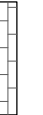

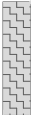
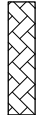

**ABBREVIATIONS:**


BLDG.	=	BUILDING
C.B.	=	CATCH BASIN
℄	=	BASE LINE
⊕	=	CENTER LINE
C.O.	=	CLEANOUT
CONC.	=	CONCRETE
CONN.	=	CONNECTION
CONT.	=	CONTINUATION
CONST.	=	CONSTRUCT
DET.	=	DETAIL
D.I.P.	=	DUCTILE IRON PIPE
EXIST.	=	EXISTING
F.F.E.	=	FINISHED FLOOR ELEVATION
F.H. / FH	=	FIRE HYDRANT
F.M. / FM	=	FORCE MAIN
H.D.P.E.	=	HIGH DENSITY POLYETHYLENE
HORIZ.	=	HORIZONTAL
INV.	=	INVERT
L.F.	=	LINEAR FEET
M-DWASD	=	MIAMI-DADE WATER AND SEWER DEPT.
M-DPW	=	MIAMI DADE PUBLIC WORKS
M.E.G.	=	MATCH EXISTING GRADE
MIN.	=	MINIMUM
P.I.V.	=	POST INDICATOR VALVE
P.G.P.	=	PROPOSED GRADING POINT
P.G.L.	=	PROPOSED GRADING LINE
P/L, ℄	=	PROPERTY LINE
PROP.	=	PROPOSED
SAN.	=	SANITARY SEWER
R/W, ROW	=	RIGHT OF WAY
SEC.	=	SECTION
SERV.	=	SERVICE
S/L, ⊕	=	SECTION LINE
STA.	=	STATION
STD.	=	STANDARD
SWK.	=	SIDEWALK
T.O.P.	=	TOP OF PIPE
U.S.F.	=	US FOUNDRY
VERT.	=	VERTICAL
W.M. / WM	=	WATER MAIN
W.S.	=	WATER SERVICE
T.B.F.V.	=	TO BE FIELD VERIFIED

**UTILITIES LEGEND:**

— WM —	—	WM —	EXISTING WATER MAIN (UNDERGROUND)
— SAN —	—	SAN —	EXISTING SANITARY SEWER MAIN (UNDERGROUND)
— FO —	—	FO —	EXISTING COMMUNICATION CONDUIT (UNDERGROUND)
— E —	—	E —	EXISTING F.P.L. CONDUIT (UNDERGROUND)
— [ ] —	—	[ ] —	EXISTING EXFILTRATION DRAIN (UNDERGROUND)
— OUL —	—	OUL —	EXISTING F.P.L. CONDUIT (OVERHEAD)
	—		PROPOSED SOLID DRAINAGE PIPE (UNDERGROUND)
	—		PROPOSED EXFILTRATION DRAIN (UNDERGROUND)
	—		PROPOSED DRAINAGE STRUCTURE (INLET/M.H.) ID
	—		EXISTING DRAINAGE STRUCTURE (INLET) ID
— FM —	—	FM —	EXISTING FORCE MAIN (UNDERGROUND)
— SS —	—	SS —	EXISTING STORM DRAINAGE PIPE (UNDERGROUND)
	—		EXISTING CATCH BASIN
	—		PROP. CATCH BASIN
	—		PROP. DRAINAGE MANHOLE
	—		EXISTING DRAINAGE MANHOLE
	—		EXISTING SAN. SEWER MANHOLE
	—		EXISTING WATER MAIN VALVE BOX
	—		EXISTING FORCE MAIN VALVE BOX
	—		EXISTING WATER METER
	—		EXISTING ELECTRICAL PANEL/PULL BOX
	—		EXISTING COMMUNICATION PANEL/PULL BOX
	—		EXISTING FIRE HYDRANT

**ROADWAY PLANS LEGEND:**

	—	AMOUNT OF SIDEWALK FLAG TO BE REPLACED
①	—	EXISTING SANITARY SEWER / DRAINAGE MANHOLE TO BE ADJUSTED BY A LICENSED CONTRACTOR
②	—	EXISTING WATER/FORCE MAIN/GAS VALVE BOX & LID TO BE ADJUSTED BY A LICENSED CONTRACTOR
③	—	EXISTING WATER METER BOX TO BE REPLACED
④	—	CONTINGENCY: REPLACE EXIST. CONCRETE DRIVEWAY BY 6" CONCRETE DRIVEWAY (MATCH EXIST. LAYOUT AND STAMP PATTERN)
⑤	—	BEGIN/END PROP. CONC. CURB TYPE-F. MATCH EXISTING CURB/EDGE OF PAVEMENT. SEE SHEET C-13
	—	CONSTRUCT 6" CONC. SIDEWALK, HANDICAP RAMPS, DRIVEWAYS & INLET APRONS
	—	AREA TO BE RESODDED.
	—	PROP. DETECTABLE WARNING PER FDOT INDEX 522-002
	—	MILLING EXISTING ASPHALT PAVEMENT (½" AVERAGE) RESURFACING WITH 1 LIFT (1") OF SP-9.5 ASPHALTIC CONCRETE SURFACE COURSE (INSTALL W/ THE SECOND LIFT OF THE PAVEMENT RESTORATION AND NEW PAVEMENT)
	—	CONTINGENCY: EXIST. ASPHALT DRIVEWAY TO BE RESURFACED W/ 1" SP-9.5 CONCRETE ASPHALT.
	—	CONTINGENCY: EXIST. PAV. DRIVEWAY TO BE RESURFACED. SEE PAV. DRIVEWAY RESTORATION DETAIL SHEET C-47
	—	NEW PAVEMENT/ WIDENING/ DRAINAGE TRENCH RESTORATION
—	—	- 2 LIFTS OF (1") SP-9.5 ASPHALTIC CONC.
—	—	- 8" MIN. BASE COURSE COMPACTED TO MIN. 98% (MODIFIED PROCTOR) MIN. LBR=100 PER AASHTO T-180
—	—	- 12" STABILIZED SUBBASE, COMPACTED TO MIN. 98%, MIN. LBR=40, PER AASHTO T-180
	—	PAVEMENT TO BE REGRADED
—	—	- 2 LIFTS OF (1") SP-9.5 ASPHALTIC CONC.
—	—	- USE LIMEROCK AS REQUIRED (8" MIN. BASE COURSE COMPACTED TO MIN. 98% (MODIFIED PROCTOR) MIN. LBR=100 PER AASHTO T-180)
—	—	- EXIST STABILIZED SUBBASE TO REMAIN
	—	PROPOSED PAVERDRAIN WITH 6"x9" CONCRETE BORDER CURB (ASPHALT SIDE). SEE DETAIL ON SHEET C-48
	—	PROPOSED RUNOFF ARROW



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**Cutler Bay**  
FLORIDA  
INCORPORATED 1981

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**CUTLER BAY - ROADWAY & DRAINAGE IMPROVEMENTS AREA # 1**

**LEGEND AND ABBREVIATIONS**

SCALE: AS SHOWN  
PROJECT NO.: 2151  
DWG. NO.:  
SHEET: C-4



**PAY ITEM DESCRIPTION**

1	CONTRACTOR SHALL FURNISH AS-BUILT PLANS SIGNED AND SEALED BY AND PROFESSIONAL LAND SURVEYOR TO THE TOWN OF CUTLER BAY TO BE ACCOMPLISHED IN ACCORDANCE WITH THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS, U.S. DEPARTMENT OF TRANSPORTATION FEDERAL HIGHWAY ADMINISTRATION. PUBLIC WORKS MANUAL OF MIAMI DADE COUNTY, THE LATEST REVISIONS OF THE AFOREMENTIONED MANUALS AT TIME OF CONSTRUCTION WITH ENGINEER APPROVAL, AND IN ACCORDANCE WITH THE LATEST FLORIDA DEPARTMENT OF TRANSPORTATION DESIGN STANDARDS INDEX 102 SERIES. INCLUDES THE COST OF CONSTRUCTION OF TEMPORARY PAVEMENT & ITS SUBSEQUENT REMOVAL.
102-1	
104-18	THIS ITEM IS TO BE USED IN ACCORDANCE WITH THE PLANS, STANDARDS, AND/OR EROSION AND SEDIMENT CONTROL MANUAL FOR THE PROTECTION OF EXISTING INLETS. PAYMENT PER EACH INLET INCLUDES ALL WORK AND MATERIALS FOR A COMPLETE SYSTEM. PROPOSED INLETS: THE PAYMENT FOR PROTECTING NEW INLETS IS INCIDENTAL TO THE COST OF THE NEW INLET. CURB INLET FILTERS, CURB INSERT PROTECTION SYSTEMS, PIPE END CAP FILTERS, DITCH BOTTOM INLET PROTECTION SYSTEMS ("CAPS", BARRIERS, AND OTHER MATERIALS), ARE INCLUDED IN THIS PAY ITEM.
110-1-1	CONSISTS OF COMPLETE REMOVAL AND DISPOSAL OF ALL VEGETATION, DEBRIS, DRAINAGE STRUCTURES, DRAINAGE PIPES, FLEXIBLE PAVEMENT, OR ANY OTHER OBSTRUCTIONS IN ALL AREAS WHERE EXCAVATION IS TO BE DONE, OR WHERE EMBANKMENTS OR STRUCTURES WILL BE CONSTRUCTED. THIS INCLUDES ROADWAY AREA, DITCH AREA, BORROW AND MATERIAL PITS, AND AREAS WHERE CULVERTS OR PIPELINES WILL BE CONSTRUCTED. ALSO INCLUDES SHRUB AND TREE TRIMMING. ALL DEBRIS SHOULD BE DISPOSED OF IN LEGAL AREAS PROVIDED BY THE CONTRACTOR.
110-4-10	CONSISTS OF REMOVING AND DISPOSING OF EXISTING CONCRETE PAVEMENT, CONCRETE SIDEWALKS, CONCRETE APRONS, DITCH PAVEMENT, CONCRETE PAVERS, AND CURB AND GUTTER.
120-4	THE DISPOSAL OF MUCK, CLAY, ROCK, OR OTHER UNSUITABLE MATERIAL THAT COULD EXIST.
120-6	INCLUDES ALL WORK AND MATERIALS (SUITABLE MATERIAL) PER FDOT SECTION 120 AND INDEX 120-001 REPLACE WITH CLEAN FILL THE VOLUME OF SUBSOIL EXCAVATION (PAY ITEM 120-4).
125-1	INCLUDES EXCAVATION FOR BOX CULVERTS, PIPE CULVERTS (SOLID PIPE), INLETS, MANHOLES, AND SIMILAR STRUCTURES. BASE AND SUB-BASE EXCAVATION WITHIN TRENCH RESTORATION IS INCLUDED IN THIS PAID ITEM. THESE ARE ESTIMATED QUANTITIES AND MAY BE INCREASED OR DECREASED.
160-4	INCLUDES ALL WORK AND MATERIALS SPECIFIED IN SECTION 160 (FDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION), INCLUDING FURNISHING, SPREADING, AND MIXING OF ALL STABILIZING MATERIAL REQUIRED AND ANY REPROCESSING OF STABILIZATION AREAS NECESSARY TO ATTAIN THE SPECIFIED BEARING VALUE.
327-70-16	CONSISTS OF REMOVING EXISTING AC PAVEMENT TO IMPROVE THE RIDEABILITY OF THE FINISHED PAVEMENT, TO LOWER THE FINISHED GRADE ADJACENT TO EXISTING CURB PRIOR TO RESURFACING, OR TO COMPLETELY REMOVE EXISTING PAVEMENT. INCLUDES TRANSPORTING THE MILLED MATERIAL TO THE ASPHALT PLANT SITE AND STOCKPILING THE MATERIAL. ALSO INCLUDES REMOVAL OF EXISTING REFLECTIVE PAVEMENT MARKER
425-1-SERIES 425-2-SERIES	INCLUDES: POLLUTION RETARDANT Baffle, FRAME, GRATES, COVERS, MATERIALS, METAL PIPE ENCASUREMENT, INLET PROTECTION (PAY ITEM DESCRIPTION 104-18), LABOR AND CONSTRUCTION SHALL BE INCLUDED IN COST OF STRUCTURES.
425-5 & 425-6	WITHIN PAVEMENT AREA, MANHOLES AND VALVE BOXES TO BE ADJUSTED AS NECESSARY.
430-174-SERIES	INCLUDES FURNISHING AND PLACING: PIPE PLUGS, PIPE FITTING, CAPS, CONCRETE JACKET AND SOLID PIPES.
443-70-SERIES	INCLUDES: EXCAVATION TO PLAN ELEVATION (15 FEET DEEP. SEE DETAILS SHEETS), FURNISHING AND PLACING: (PIPE PLUGS, PIPE FITTINGS, PERFORATED PIPES, BALLAST ROCK AND BACKFILLING WITH SELECT FILL, FILTER FABRIC AND ALL APPLICABLE ITEMS REQUIRED TO CONSTRUCT DRAIN). ALSO, IT IS INCLUDED THE ADDITIONAL COST OF EXCAVATING AROUND THE LATERALS SERVICING SAID PROPERTIES.
522-2	ESTIMATED QUANTITY FOR: DRIVEWAYS, SIDEWALK, RAMPS, APRON, AND CONC. SLAB (REINFORCED) TO BE CONSTRUCTED AT LOCATIONS SHOWN IN THE PLANS AND/OR AS DIRECTED BY THE ENGINEER.
526-1-1	INCLUDES ALL LABOR AND MATERIALS (PAVER, SAND LEVELING COURSE, 6" LIMEROCK, AND ANY PROCESSING OR MATERIAL NECESSARY TO COMPLETE PAVEMENT INSTALLATION.)
570-1-2	INCLUDES 4" TOPSOIL LAYER AND SOD TO BE USED IN THE RESTORATION OF LAWNS AND MAY BE INCREASED OR DECREASED AS DIRECTED BY THE TOWN OF CUTLER BAY. BAHIA SOD OR TO MATCH EXISTING SOD.
700-1-11	THIS ITEM INCLUDES ALL SIGN PANEL(S), COLUMN(POST), FOUNDATION, HARDWARE AND MATERIALS NECESSARY FOR A COMPLETE ASSEMBLY.

**QUANTITIES AND PAY ITEM NOTES:**

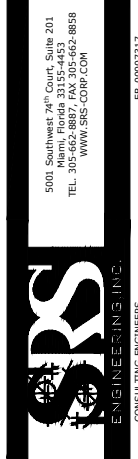
- EXCESS AND/OR UNDESIRABLE MATERIAL TO BE DISPOSED OF BY CONTRACTOR IN LEGAL AREAS PROVIDED BY HIM. NO SEPARATE PAYMENT WILL BE MADE FOR THIS ITEM.
- ANY EXCAVATED MATERIAL, IF UNSUITABLE, SHALL NOT BE USED IN THE CONSTRUCTION OF THE EMBANKMENT.
- ASPHALT DRIVEWAY RESTORATION IS INCLUDED IN THE PAY ITEM 334-1-13.
- THE CONTINGENCY ITEM MUST BE APPROVED BY THE ENGINEER ON RECORD AND THE TOWN.
- THE 5 L.F. OF SOLID PIPE ON BOTH SIDES OF THE FRENCH DRAIN ARE INCLUDED IN THE QUANTITIES LISTED UNDER PAY ITEMS 430-174-SERIES AND 125-1 (EXCAVATION)
- CONCRETE BORDER CURB (ITEM): INCLUDES CONSTRUCTION OF CONCRETE BORDER CURB, AND ALL FORMING, CONTRACTION JOINT FORMING, EXPANSION JOINT CONSTRUCTION, STEEL REINFORCEMENT, FINISHING AND BACKFILLING AND COMPACTION.
- PAVERDRAIN (ITEM): INCLUDES ALL LABOR AND MATERIALS (PAVER, GEOGRID OR GEOTEXTILE (2 LAYERS), # 57 STONE , # 3 OR # 2 STONE, AND ANY PROCESSING OR MATERIAL NECESSARY TO COMPLETE PAVEMENT INSTALLATION). SEE MISCELLANEOUS DETAILS SHEETS. ALSO INCLUDES EXCAVATION AND DISPOSAL OF MATERIAL
- REFER TO FDOT'S "DESIGN QUANTITIES AND ESTIMATES" (DQE) FOR MORE INFORMATION ON THE PAYMENT ITEM DESCRIPTIONS.

THE USE OF THESE PLANS AND SPECIFICATIONS SHALL BE RESTRICTED TO THE ORIGINAL SITE FOR WHICH THEY WERE PREPARED AND PUBLICATION HEREOF IS EXPRESSLY LIMITED TO SUCH USE. REUSE, REPRODUCTION OR PUBLICATION BY ANY METHOD, IN WHOLE OR IN PART, IS PROHIBITED. FILE TO THE PLANS AND SPECIFICATIONS REMAINS WITH SRS ENGINEERS, INC. WITHOUT PREJUDICE. VISUAL CONTACT WITH THESE PLANS AND SPECIFICATIONS SHALL CONSTITUTE PRIMA FACIE EVIDENCE OF THE ACCEPTANCE OF THE RESTRICTIONS.


REV.	DATE	BY:	DESCRIPTION

DESIGNED BY:	G.B.
DRAWN BY:	G.B.
CHECKED BY:	J.C.F.
DATE:	2/26/2024

SEAL:	
-------	--



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**CUTLER BAY - ROADWAY & DRAINAGE IMPROVEMENTS**  
**AREA # 1**

**PAY ITEMS NOTES**

SCALE:	AS SHOWN
PROJECT NO.:	2151
DWG. NO.:	
SHEET:	C-5



Item	Pay Item No.	Description	Quantity	Unit Measure
1	001	AS BUILT	1	LS
2	101-1	MOBILIZATION	1	LS
3	102-1	MAINTENANCE OF TRAFFIC	1	LS
4	102-14	TRAFFIC CONTROL OFFICER ALLOWANCE	300	HR
5	104-18	INLET PROTECTION SYSTEM (EXISTING INLETS)	59	EA
6	110-1-1	CLEARING AND GRUBBING	1	LS
7	110-4-10	REMOVAL OF EXISTING CONCRETE + (30% CONTINGENCY)	2,365	SY
8	120-4	SUBSOIL EXCAVATION (CONTINGENCY)	100	CY
9	120-6	EMBANKMENT (CONTINGENCY)	100	CY
10	125-1	EXCAVATION FOR STRUCTURES AND SOLID PIPES	5,825	CY
11	160-4	TYPE B STABILIZATION	6,150	SY
12	285-704	LIMEROCK BASE (6") (OPTIONAL BASE, BASE GROUP 04)	30	SY
13	285-706	LIMEROCK BASE (8") (OPTIONAL BASE, BASE GROUP 06)	7,300	SY
14	327-70-16	MILLING EXISTING ASPHALT PAVEMENT (1/2" AVG. DEPTH)	29,572	SY
15	334-1-13	SUPERPAVE ASPHALTIC CONC, TRAFFIC C, SP-9.5 (1") + (10% CONTINGENCY)	2,760	TN
16	425-1-2B	SD-3.1 SWALE INLET TYPE D-1 (17" x 27") < 10' (M-DPWD PAY ITEM)	53	EA
17	425-1-2-A	SD-2.2 SWALE INLET TYPE D-3 (36" Dia.) > 10' (M-DPWD PAY ITEM)	3	EA
18	425-1-481	INLETS, CURB, TYPE 8, < 10'	8	EA
19	425-1-482	INLETS, CURB, TYPE 8, > 10'	2	EA
20	425-1-604	SD-2.7 SWALE INLETS (TYPE-P), < 10' (M-DPWD PAY ITEM)	5	EA
21	425-1-605	SD-2.7 SWALE INLETS (TYPE-P), > 10' (M-DPWD PAY ITEM)	1	EA
22	425-2-41	SD-2.7 MANHOLES, P-7, < 10' (M-DPWD PAY ITEM)	19	EA
23	425-2-42	SD-2.7 MANHOLES, P-7, > 10' (M-DPWD PAY ITEM)	5	EA
24	425-2-71	SD-2.6 MANHOLES, J-7, < 10' (M-DPWD PAY ITEM)	12	EA
25	425-2-72	SD-2.6 MANHOLES, J-7, > 10' (M-DPWD PAY ITEM)	3	EA
26	425-5	MANHOLE, ADJUST	38	EA
27	425-6	VALVE BOXES, ADJUST	28	EA
28	425-79	CORE AND TIE-IN TO EXISTING DRAIN STRUCTURE (18" PIPE, INCL. MORTAR SEAL) (M-DPWD PAY ITEM)	5	EA
29	430-94-1	DESILTING PIPE, 0 - 24"	2,600	LF
30	430-94-2	DESILTING PIPE, 25 - 36"	250	LF
31	430-174-118	PIPE CULVERT, OPTIONAL MATERIAL, ROUND, 18"SD (HDPE)	2,430	LF
32	443-70-3	EXFILTRATION DRAIN (18")	3,585	LF
33	520-1-10	CONCRETE CURB & GUTTER, TYPE F/DROP CURB	270	LF
34	520-2-4	CONCRETE CURB, TYPE D	60	LF
35	522-2	CONCRETE SIDEWALK (6" THICK) (SIDEWALK, RAMP, APRON, DRIVEWAY & SALB) + (30% CONTINGENCY)	4,450	SY
36	526-1-1	PAVERS, ARCHITECTURAL, ROADWAY (CONTINGENCY)	65	SY
37	527-2	DETECTABLE WARNINGS	550	SF
38	570-1-2	PERFORMANCE TURF, SOD	8,560	SY
39	1080-211	UTILITY FIXTURE, VALVE/METER BOX, FURNISH & INSTALL	12	EA
40		CONCRETE CURB BORDER	290	LF
41		PAVERDRAIN	545	SY

Item	Pay Item No.	Description	Quantity	Unit Measure
42	710-11-101	PAINTED PAVEMENT MARKINGS, STANDARD, WHITE, SOLID, 6"	0.27	GM
43	710-11-123	PAINTED PAVEMENT MARKINGS, STANDARD, WHITE, SOLID FOR CROSSWALK AND ROUNDABOUT, 12"	2,560	LF
44	710-11-124	PAINTED PAVEMENT MARKINGS, STANDARD, WHITE, SOLID FOR DIAGONAL OR CHEVRON, 18"	165	LF
45	710-11-125	PAINTED PAVEMENT MARKINGS, STANDARD, WHITE, SOLID FOR STOP LINE OR CROSSWALK, 24"	1,860	LF
46	710-11-141	PAINTED PAVEMENT MARKINGS, STANDARD, WHITE, 6-10 DOTTED EXTENSION, 6"	0.02	GM
47	710-11-160	PAINTED PAVEMENT MARKINGS, STANDARD, WHITE, MESSAGE OR SYMBOL	2.00	EA
48	710-11-170	PAINTED PAVEMENT MARKINGS, STANDARD, WHITE, ARROWS	1.00	EA
49	710-11-201	PAINTED PAVEMENT MARKINGS, STANDARD, YELLOW, SOLID, 6"	1.25	GM
50	710-11-231	PAINTED PAVEMENT MARKINGS, STANDARD, YELLOW, SKIP, 6"	0.35	GM
51	700-1-11	SINGLE POST SIGN, F&I GROUND MOUNT, UP TO 12 SF	6	AS
52	700-1-50	SINGLE POST SIGN, RELOCATE	12	AS
53	700-1-60	SINGLE POST SIGN, REMOVE	3	AS
54	700-3-101	SIGN PANEL, INSTALL, UP TO 12 SF	3	AS
55	700-3-501	SIGN PANEL, RELOCATE, UP TO 12 SF	1	EA
56	706-1-1	RAISED PAVEMENT MARKER, TYPE B WITHOUT FINAL SURFACE MARKINGS (Y/Y, W/R & BLUE)	210	EA
57	711-11-123	THERMOPLASTIC, STANDARD, WHITE, SOLID, 12" FOR CROSSWALK AND ROUNDABOUT	2,560	LF
58	711-11-124	THERMOPLASTIC, STANDARD, WHITE, SOLID, 18" FOR DIAGONALS AND CHEVRONS	165	LF
59	711-11-125	THERMOPLASTIC, STANDARD, WHITE, SOLID, 24" FOR STOP LINE AND CROSSWALK	1,860	LF
60	711-11-141	THERMOPLASTIC, STANDARD, WHITE, 2-4 DOTTED GUIDELINE/ 6-10 GAP EXTENSION, 6"	0.02	GM
61	711-11-160	THERMOPLASTIC, STANDARD, WHITE, MESSAGE OR SYMBOL	2.00	EA
62	711-11-170	THERMOPLASTIC, STANDARD, WHITE, ARROW	1.00	EA
63	711-16-101	THERMOPLASTIC, STANDARD-OTHER SURFACES, WHITE, SOLID, 6"	0.27	GM
64	711-16-201	THERMOPLASTIC, STANDARD-OTHER SURFACES, YELLOW, SOLID, 6"	1.25	GM
65	711-16-231	THERMOPLASTIC, STANDARD-OTHER SURFACES, YELLOW, SKIP, 6"	0.35	GM

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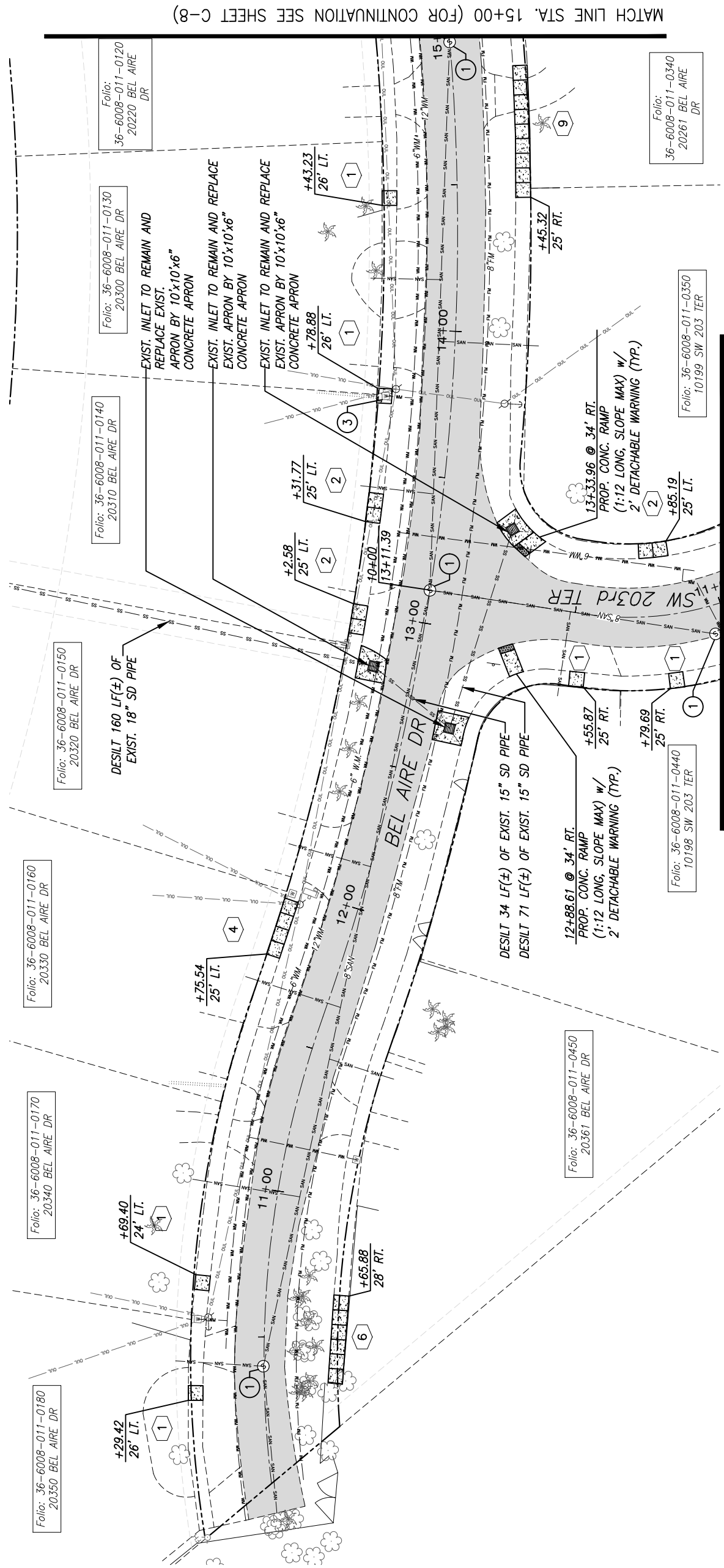
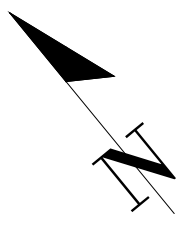
CUTLER BAY  
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 FAX: (305) 234-4251

**CUTLER BAY - ROADWAY &  
 DRAINAGE IMPROVEMENTS  
 AREA # 1**

**SUMMARY OF QUANTITIES**

SCALE:  
 AS SHOWN  
 PROJECT NO.:  
 2151  
 DWG. NO.:  
 SHEET:  
 C-6



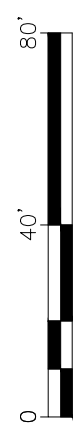


MATCH LINE STA. 15+00 (FOR CONTINUATION SEE SHEET C-8)

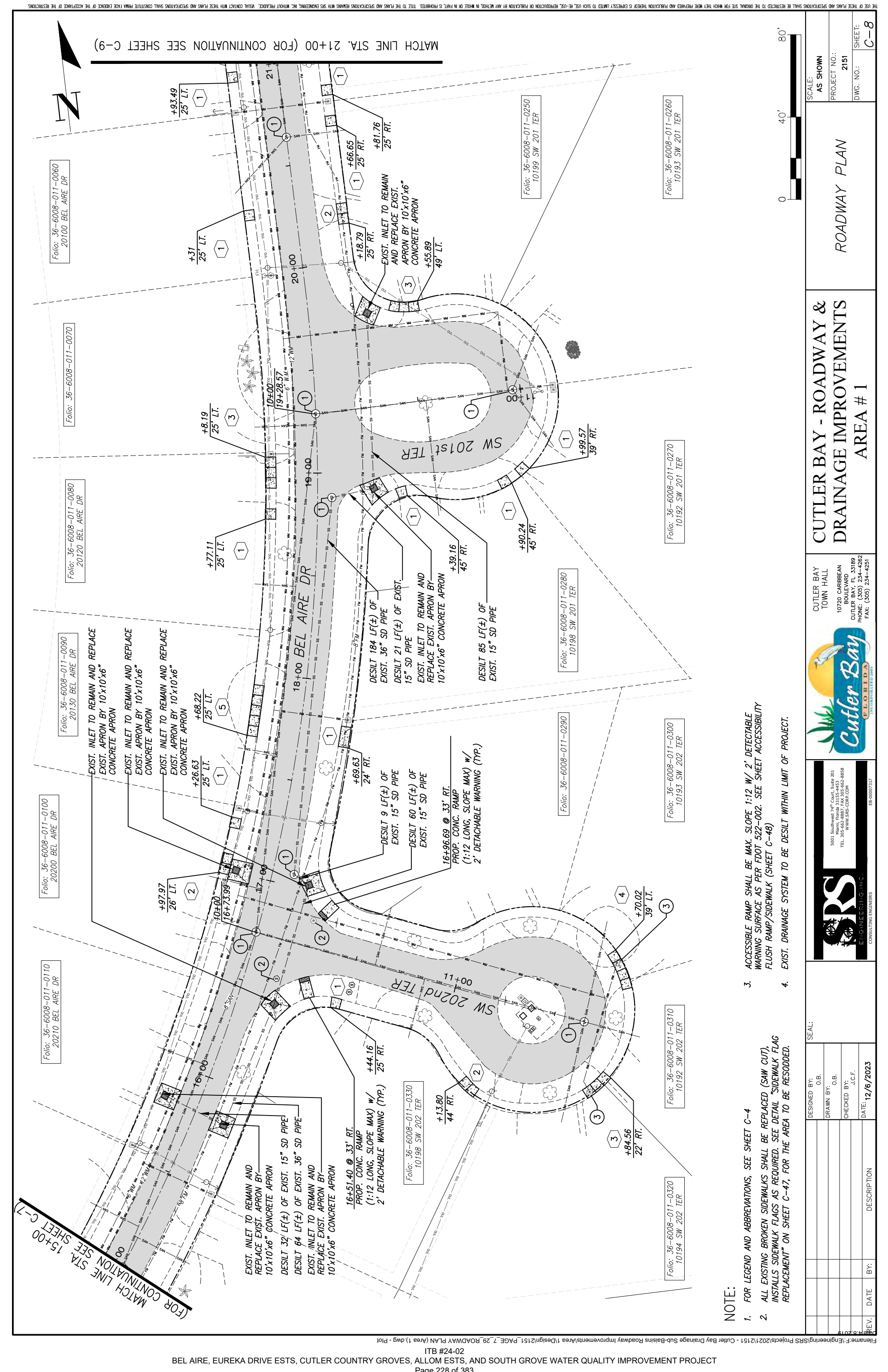
MATCH LINE STA. 11+00 (FOR CONTINUATION SEE SHEET C-10)

**NOTE:**

1. FOR LEGEND AND ABBREVIATIONS, SEE SHEET C-4
2. ALL EXISTING BROKEN SIDEWALKS SHALL BE REPLACED (SAW CUT), INSTALLS SIDEWALK FLAGS AS REQUIRED. SEE DETAIL "SIDEWALK FLAG REPLACEMENT" ON SHEET C-47, FOR THE AREA TO BE RESODDED.
3. ACCESSIBLE RAMP SHALL BE MAX. SLOPE 1:12 W/ 2' DETECTABLE WARNING SURFACE AS PER FDOT 522-002. SEE SHEET ACCESSIBILITY FLUSH RAMP/SIDEWALK (SHEET C-48)
4. EXIST. DRAINAGE SYSTEM TO BE DESILT WITHIN LIMIT OF PROJECT.



	<b>CUTLER BAY - ROADWAY &amp; DRAINAGE IMPROVEMENTS AREA # 1</b>	<b>ROADWAY PLAN</b>	SCALE: AS SHOWN PROJECT NO.: 2151 DWG. NO.: SHEET: C-7
		CUTLER BAY TOWN HALL 10720 CARIBBEAN BOULEVARD CUTLER BAY, FL 33189 PHONE: (305) 234-4262 FAX: (305) 234-4251	
		5001 Southwest 74th Court, Suite 201 Miami, Florida 33155-4453 TEL: 305-662-8887 FAX: 305-662-8858 WWW.SRS-CON.COM	
DESIGNED BY:	O.B.	DRAWN BY:	O.B.
CHECKED BY:	J.C.F.	DATE:	12/6/2023
REV.	DATE	BY:	DESCRIPTION



MATCH LINE STA. 15+00 (FOR CONTINUATION SEE SHEET C-7)  
 MATCH LINE STA. 21+00 (FOR CONTINUATION SEE SHEET C-9)

**NOTE:**

1. FOR LEGEND AND ABBREVIATIONS, SEE SHEET C-4
2. ALL EXISTING BROKEN SIDEWALKS SHALL BE REPLACED (SAW CUT), INSTALLS SIDEWALK FLAGS AS REQUIRED. SEE DETAIL "SIDEWALK FLAG REPLACEMENT" ON SHEET C-47, FOR THE AREA TO BE RESODDED.
3. ACCESSIBLE RAMP SHALL BE MAX. SLOPE 1:12 W/ 2' DETECTABLE WARNING SURFACE AS PER FDOT 522-002. SEE SHEET ACCESSIBILITY FLUSH RAMP/SIDEWALK (SHEET C-48)
4. EXIST. DRAINAGE SYSTEM TO BE DESILT WITHIN LIMIT OF PROJECT.

DESIGNED BY:	O.B.	SEAL:	
DRAWN BY:	O.B.		
CHECKED BY:	J.C.F.		
DATE:	12/6/2023		
REV.	DATE	BY:	DESCRIPTION



**SRS**  
CONSULTING ENGINEERS



**Cutler Bay**  
FLORIDA INCORPORATED

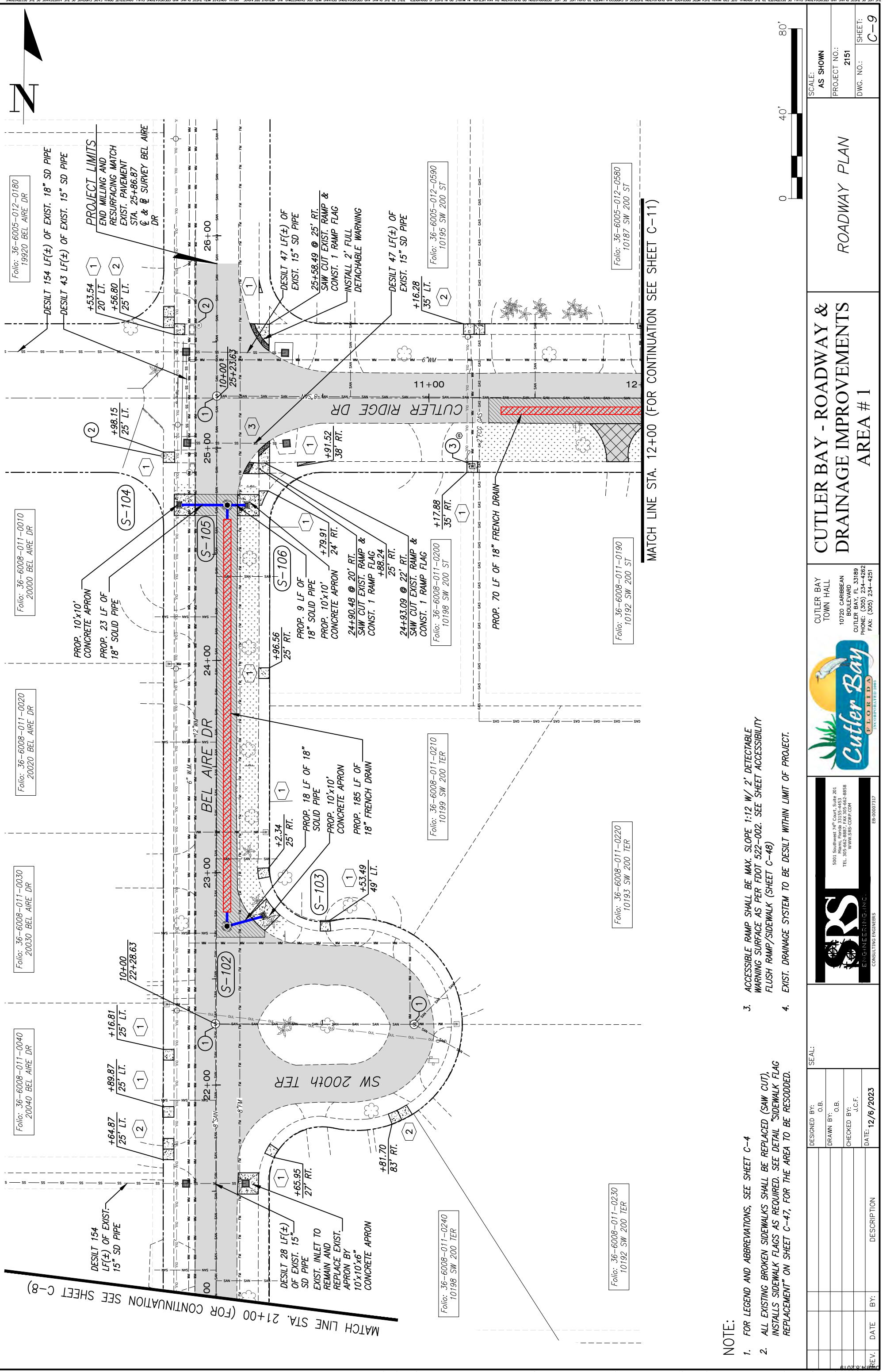
CUTLER BAY TOWN HALL  
 10720 CARBEEAN BOULEVARD  
 CUTLER BAY, FL 33189  
 PHONE: (305) 234-4262  
 FAX: (305) 234-4251

**CUTLER BAY - ROADWAY & DRAINAGE IMPROVEMENTS AREA # 1**

**ROADWAY PLAN**

SCALE:	AS SHOWN
PROJECT NO.:	2151
DWG. NO.:	
SHEET:	C-8





Folio: 36-6005-012-0180  
19920 BEL AIRE DR

Folio: 36-6008-011-0010  
20000 BEL AIRE DR

Folio: 36-6008-011-0020  
20020 BEL AIRE DR

Folio: 36-6008-011-0030  
20030 BEL AIRE DR

Folio: 36-6008-011-0040  
20040 BEL AIRE DR

Folio: 36-6008-011-0230  
10192 SW 200 TER

Folio: 36-6008-011-0240  
10198 SW 200 TER

Folio: 36-6005-012-0580  
10187 SW 200 ST

Folio: 36-6008-011-0190  
10192 SW 200 ST

Folio: 36-6008-011-0210  
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Folio: 36-6008-011-0230  
10192 SW 200 TER

Folio: 36-6008-011-0240  
10198 SW 200 TER

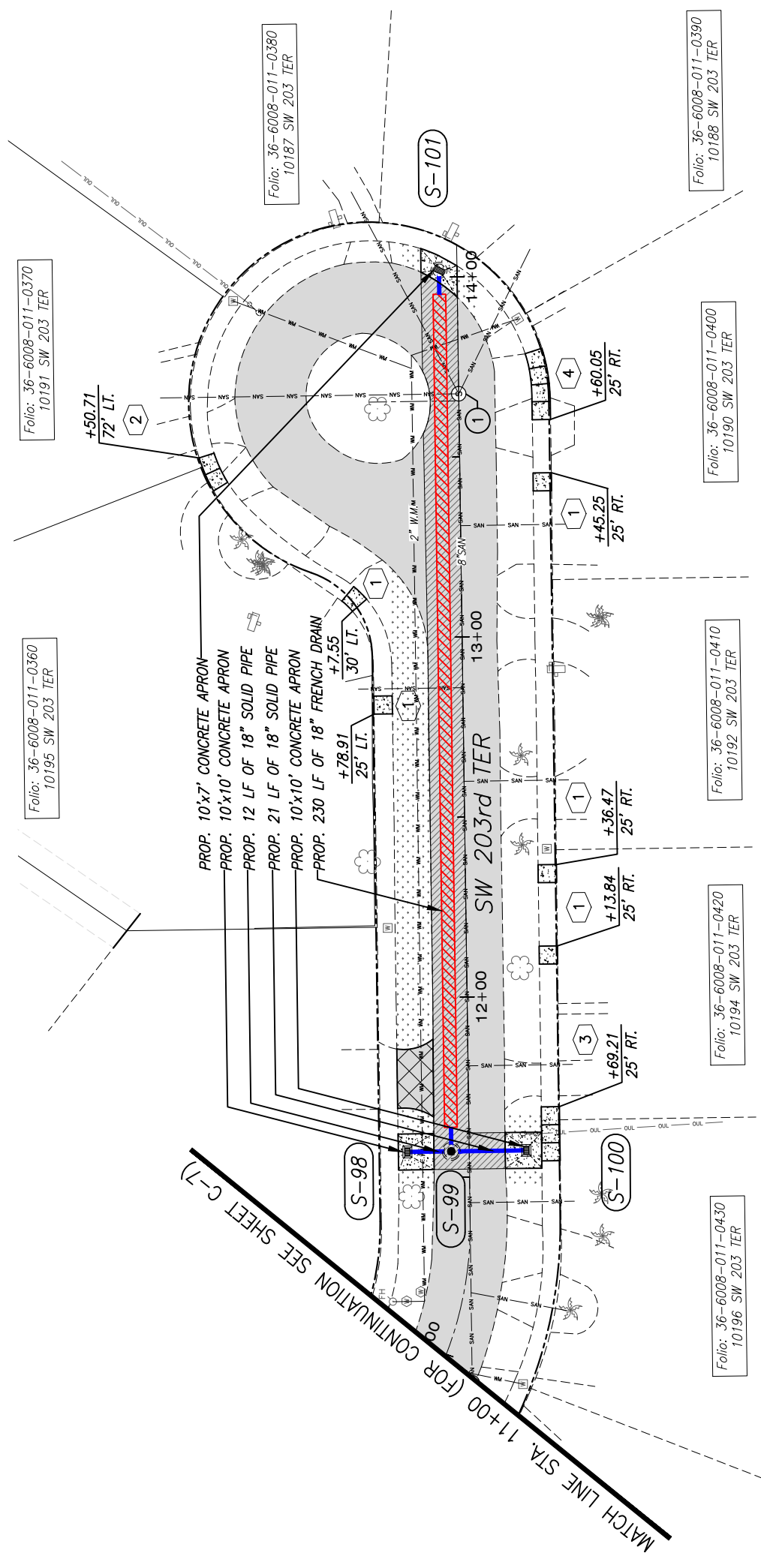
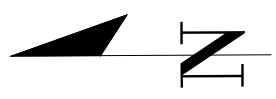
MATCH LINE STA. 12+00 (FOR CONTINUATION SEE SHEET C-11)

MATCH LINE STA. 21+00 (FOR CONTINUATION SEE SHEET C-8)

**NOTE:**

1. FOR LEGEND AND ABBREVIATIONS, SEE SHEET C-4
2. ALL EXISTING BROKEN SIDEWALKS SHALL BE REPLACED (SAW CUT), INSTALLS SIDEWALK FLAGS AS REQUIRED. SEE DETAIL "SIDEWALK FLAG REPLACEMENT" ON SHEET C-47, FOR THE AREA TO BE RESODDED.
3. ACCESSIBLE RAMP SHALL BE MAX. SLOPE 1:12 W/ 2' DETECTABLE WARNING SURFACE AS PER FDOT 522-002. SEE SHEET ACCESSIBILITY FLUSH RAMP/SIDEWALK (SHEET C-48)
4. EXIST. DRAINAGE SYSTEM TO BE DESILT WITHIN LIMIT OF PROJECT.

DESIGNED BY: O.B.		DRAWN BY: O.B.		CHECKED BY: J.C.F.		DATE: 12/6/2023	
DESIGNATION: ROADWAY PLAN		PROJECT NO.: 2151		DWG. NO.:		SHEET: C-9	
SCALE: AS SHOWN		PROJECT NO.: 2151		DWG. NO.:		SHEET: C-9	
CUTLER BAY - ROADWAY & DRAINAGE IMPROVEMENTS AREA # 1		CUTLER BAY TOWN HALL		10720 CARIBBEAN BOULEVARD		CUTLER BAY, FL 33189	
CUTLER BAY - ROADWAY & DRAINAGE IMPROVEMENTS AREA # 1		CUTLER BAY TOWN HALL		10720 CARIBBEAN BOULEVARD		CUTLER BAY, FL 33189	
CUTLER BAY - ROADWAY & DRAINAGE IMPROVEMENTS AREA # 1		CUTLER BAY TOWN HALL		10720 CARIBBEAN BOULEVARD		CUTLER BAY, FL 33189	
CUTLER BAY - ROADWAY & DRAINAGE IMPROVEMENTS AREA # 1		CUTLER BAY TOWN HALL		10720 CARIBBEAN BOULEVARD		CUTLER BAY, FL 33189	
CUTLER BAY - ROADWAY & DRAINAGE IMPROVEMENTS AREA # 1		CUTLER BAY TOWN HALL		10720 CARIBBEAN BOULEVARD		CUTLER BAY, FL 33189	
CUTLER BAY - ROADWAY & DRAINAGE IMPROVEMENTS AREA # 1		CUTLER BAY TOWN HALL		10720 CARIBBEAN BOULEVARD		CUTLER BAY, FL 33189	
CUTLER BAY - ROADWAY & DRAINAGE IMPROVEMENTS AREA # 1		CUTLER BAY TOWN HALL		10720 CARIBBEAN BOULEVARD		CUTLER BAY, FL 33189	



MATCH LINE STA. 11+00 (FOR CONTINUATION SEE SHEET C-7)

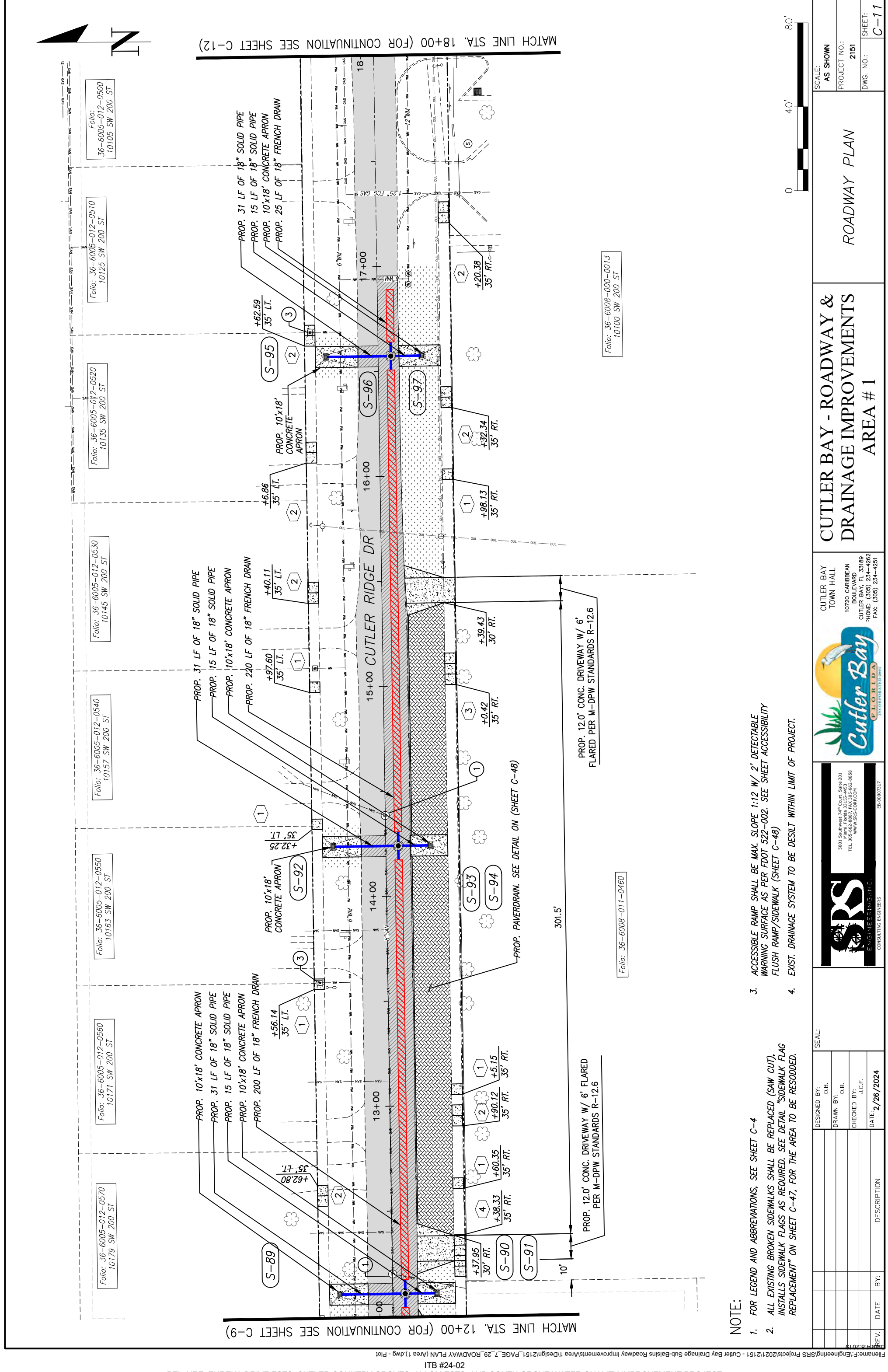
**NOTE:**

1. FOR LEGEND AND ABBREVIATIONS, SEE SHEET C-4
2. ALL EXISTING BROKEN SIDEWALKS SHALL BE REPLACED (SAW CUT), INSTALLS SIDEWALK FLAGS AS REQUIRED. SEE DETAIL "SIDEWALK FLAG REPLACEMENT" ON SHEET C-47, FOR THE AREA TO BE RESODDED.
3. ACCESSIBLE RAMP SHALL BE MAX. SLOPE 1:12 W/ 2' DETECTABLE WARNING SURFACE AS PER FDOT 522-002. SEE SHEET ACCESSIBILITY FLUSH RAMP/SIDEWALK (SHEET C-48)
4. EXIST. DRAINAGE SYSTEM TO BE DESILT WITHIN LIMIT OF PROJECT.



DESIGNED BY:	C.B.	DRAWN BY:	C.B.	CHECKED BY:	J.C.F.	DATE:	12/6/2023
REV.	DATE	BY:	DESCRIPTION				
SEAL:				5001 Southwest 74th Court, Suite 201 Miami, Florida 33155-4453 TEL: 305-662-8887, FAX: 305-662-8858 WWW.SRS-CORP.COM			
CUTLER BAY TOWN HALL 10720 CARIBBEAN BOULEVARD CUTLER BAY, FL 33189 PHONE: (305) 234-4262 FAX: (305) 234-4251				<b>CUTLER BAY - ROADWAY &amp; DRAINAGE IMPROVEMENTS AREA # 1</b>			
ROADWAY PLAN				SCALE: AS SHOWN PROJECT NO.: 2151 DWG. NO.: SHEET: C-10			





MATCH LINE STA. 12+00 (FOR CONTINUATION SEE SHEET C-9)

MATCH LINE STA. 18+00 (FOR CONTINUATION SEE SHEET C-12)

**NOTE:**

1. FOR LEGEND AND ABBREVIATIONS, SEE SHEET C-4
2. ALL EXISTING BROKEN SIDEWALKS SHALL BE REPLACED (SAW CUT), INSTALLS SIDEWALK FLAGS AS REQUIRED. SEE DETAIL "SIDEWALK FLAG REPLACEMENT" ON SHEET C-47, FOR THE AREA TO BE RESODDED.
3. ACCESSIBLE RAMP SHALL BE MAX. SLOPE 1:12 W/ 2' DETECTABLE WARNING SURFACE AS PER FDOT 522-002. SEE SHEET ACCESSIBILITY FLUSH RAMP/SIDEWALK (SHEET C-48)
4. EXIST. DRAINAGE SYSTEM TO BE DESILT WITHIN LIMIT OF PROJECT.

PROP. 12.0' CONC. DRIVEWAY W/ 6' FLARED PER M-DPW STANDARDS R-12.6

PROP. 12.0' CONC. DRIVEWAY W/ 6' FLARED PER M-DPW STANDARDS R-12.6

Folio: 36-6008-011-0460

Folio: 36-6008-000-0013  
10100 SW 200 ST

REV.	DATE	BY:	DESCRIPTION

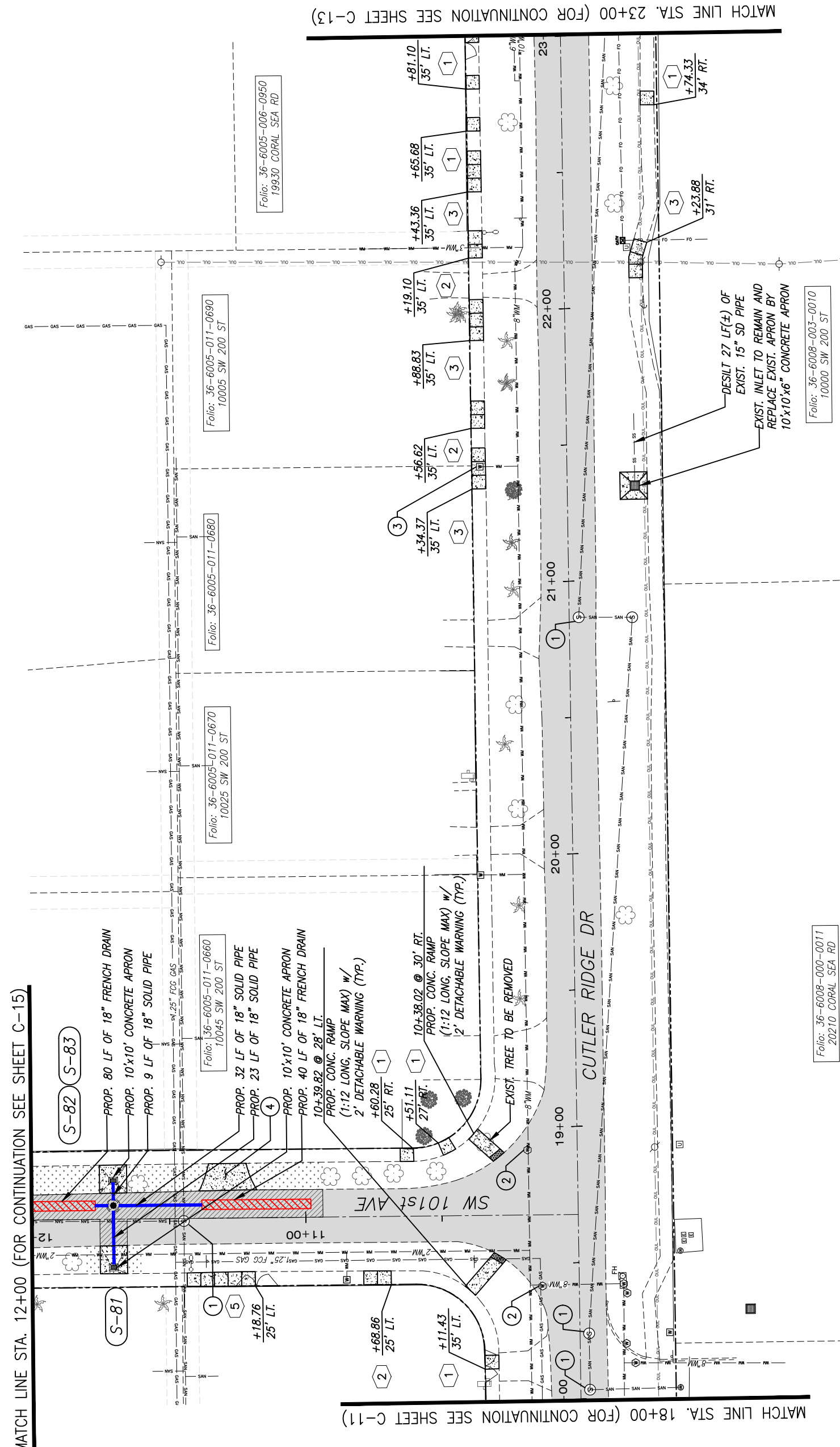
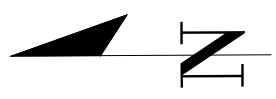
DESIGNED BY: O.B.  
 DRAWN BY: O.B.  
 CHECKED BY: J.C.F.  
 DATE: 2/26/2024

CUTLER BAY TOWN HALL  
 10720 CARIBBEAN BOULEVARD  
 CUTLER BAY, FL 33189  
 PHONE: (305) 234-4262  
 FAX: (305) 234-4251

**CUTLER BAY - ROADWAY & DRAINAGE IMPROVEMENTS AREA # 1**

SCALE: AS SHOWN  
 PROJECT NO.: 2151  
 DWG. NO.:  
 SHEET: C-11





MATCH LINE STA. 12+00 (FOR CONTINUATION SEE SHEET C-15)

MATCH LINE STA. 18+00 (FOR CONTINUATION SEE SHEET C-11)

MATCH LINE STA. 23+00 (FOR CONTINUATION SEE SHEET C-13)

**NOTE:**

1. FOR LEGEND AND ABBREVIATIONS, SEE SHEET C-4
2. ALL EXISTING BROKEN SIDEWALKS SHALL BE REPLACED (SAW CUT), INSTALLS SIDEWALK FLAGS AS REQUIRED. SEE DETAIL "SIDEWALK FLAG REPLACEMENT" ON SHEET C-47, FOR THE AREA TO BE RESODDED.
3. ACCESSIBLE RAMP SHALL BE MAX. SLOPE 1:12 W/ 2' DETECTABLE WARNING SURFACE AS PER FDOT 522-002. SEE SHEET ACCESSIBILITY FLUSH RAMP/SIDEWALK (SHEET C-48)
4. EXIST. DRAINAGE SYSTEM TO BE DESILT WITHIN LIMIT OF PROJECT.

REV.	DATE	BY:	DESCRIPTION

DESIGNED BY: O.B.  
 DRAWN BY: O.B.  
 CHECKED BY: J.C.F.  
 DATE: 12/6/2023

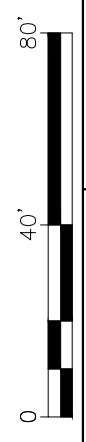
SEAL:



CUTLER BAY TOWN HALL  
 10720 CARIBBEAN BOULEVARD  
 CUTLER BAY, FL 33189  
 PHONE: (305) 234-4262  
 FAX: (305) 234-4251

**CUTLER BAY - ROADWAY & DRAINAGE IMPROVEMENTS AREA # 1**

**ROADWAY PLAN**

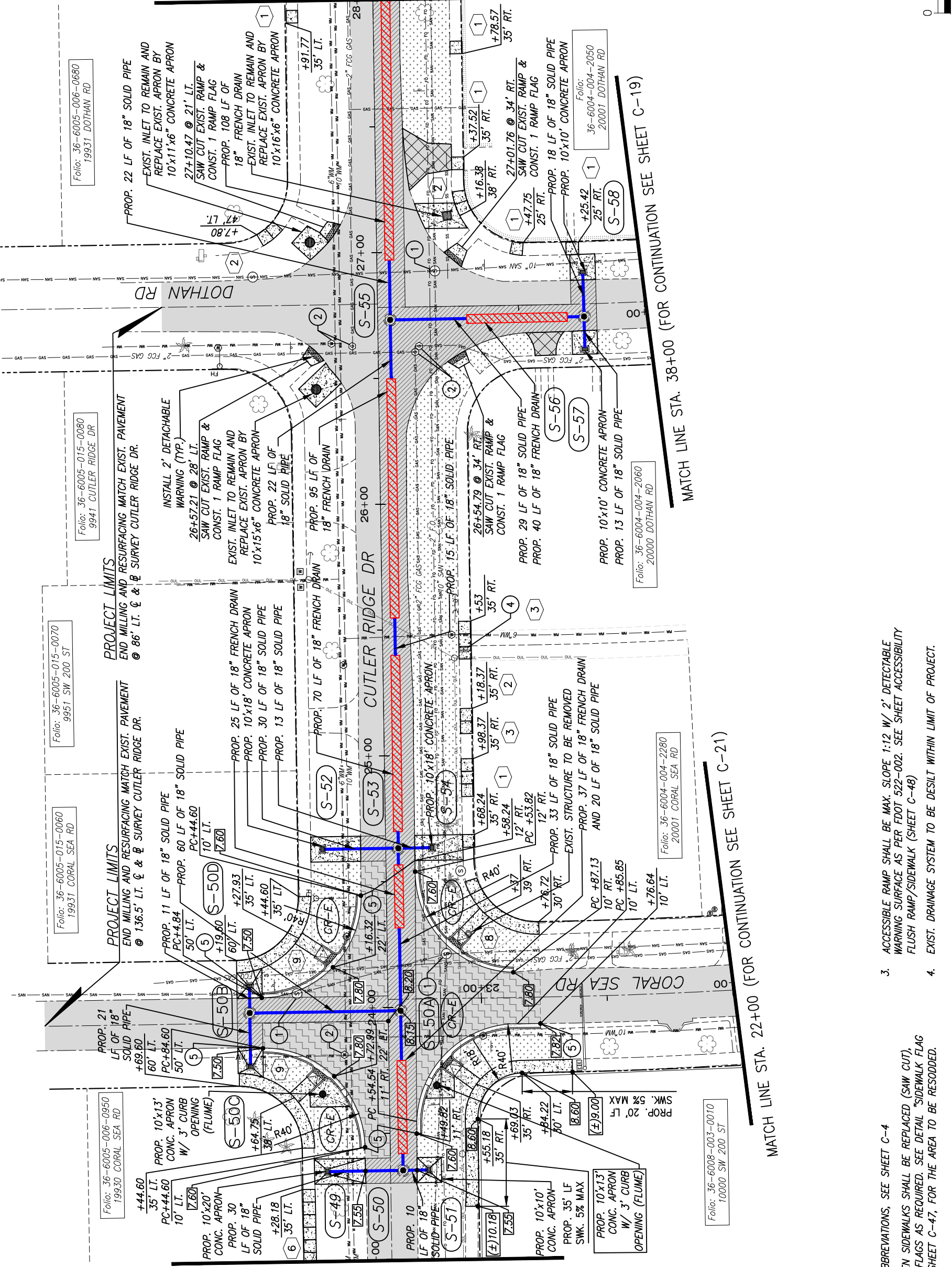


SCALE: AS SHOWN  
 PROJECT NO.: 2151  
 DWG. NO.:  
 SHEET: C-12



MATCH LINE STA. 23+00 (FOR CONTINUATION SEE SHEET C-12)

MATCH LINE STA. 28+00 (FOR CONTINUATION SEE SHEET C-14)



**PROJECT LIMITS**  
 END MILLING AND RESURFACING MATCH EXIST. PAVEMENT  
 @ 86' LT. & SURVEY CUTLER RIDGE DR.

**PROJECT LIMITS**  
 END MILLING AND RESURFACING MATCH EXIST. PAVEMENT  
 @ 136.5' LT. & SURVEY CUTLER RIDGE DR.

**PROJECT LIMITS**  
 END MILLING AND RESURFACING MATCH EXIST. PAVEMENT  
 @ 86' LT. & SURVEY CUTLER RIDGE DR.

MATCH LINE STA. 38+00 (FOR CONTINUATION SEE SHEET C-19)

MATCH LINE STA. 22+00 (FOR CONTINUATION SEE SHEET C-21)

**NOTE:**

- FOR LEGEND AND ABBREVIATIONS, SEE SHEET C-4
- ALL EXISTING BROKEN SIDEWALKS SHALL BE REPLACED (SAW CUT). INSTALLS SIDEWALK FLAGS AS REQUIRED. SEE DETAIL "SIDEWALK FLAG REPLACEMENT" ON SHEET C-47. FOR THE AREA TO BE RESODDED.
- ACCESSIBLE RAMP SHALL BE MAX. SLOPE 1:12 W/ 2' DETECTABLE WARNING SURFACE AS PER FDOT 522-002. SEE SHEET ACCESSIBILITY FLUSH RAMP/SIDEWALK (SHEET C-48)
- EXIST. DRAINAGE SYSTEM TO BE DESILT WITHIN LIMIT OF PROJECT.

REV.	DATE	BY:	DESCRIPTION

DESIGNED BY: O.B.  
 DRAWN BY: O.B.  
 CHECKED BY: J.C.F.  
 DATE: 12/6/2023

**SRS**  
 ENGINEERING & SURVEYING  
 CONSULTING ENGINEERS

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 Miami, Florida 33152-4453  
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 WWW.SRS-CONR.COM

**Cutler Bay**  
 FLORIDA INCORPORATED

CUTLER BAY TOWN HALL  
 10720 CARBIDEAN BOULEVARD  
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 PHONE: (305) 234-4262  
 FAX: (305) 234-4251

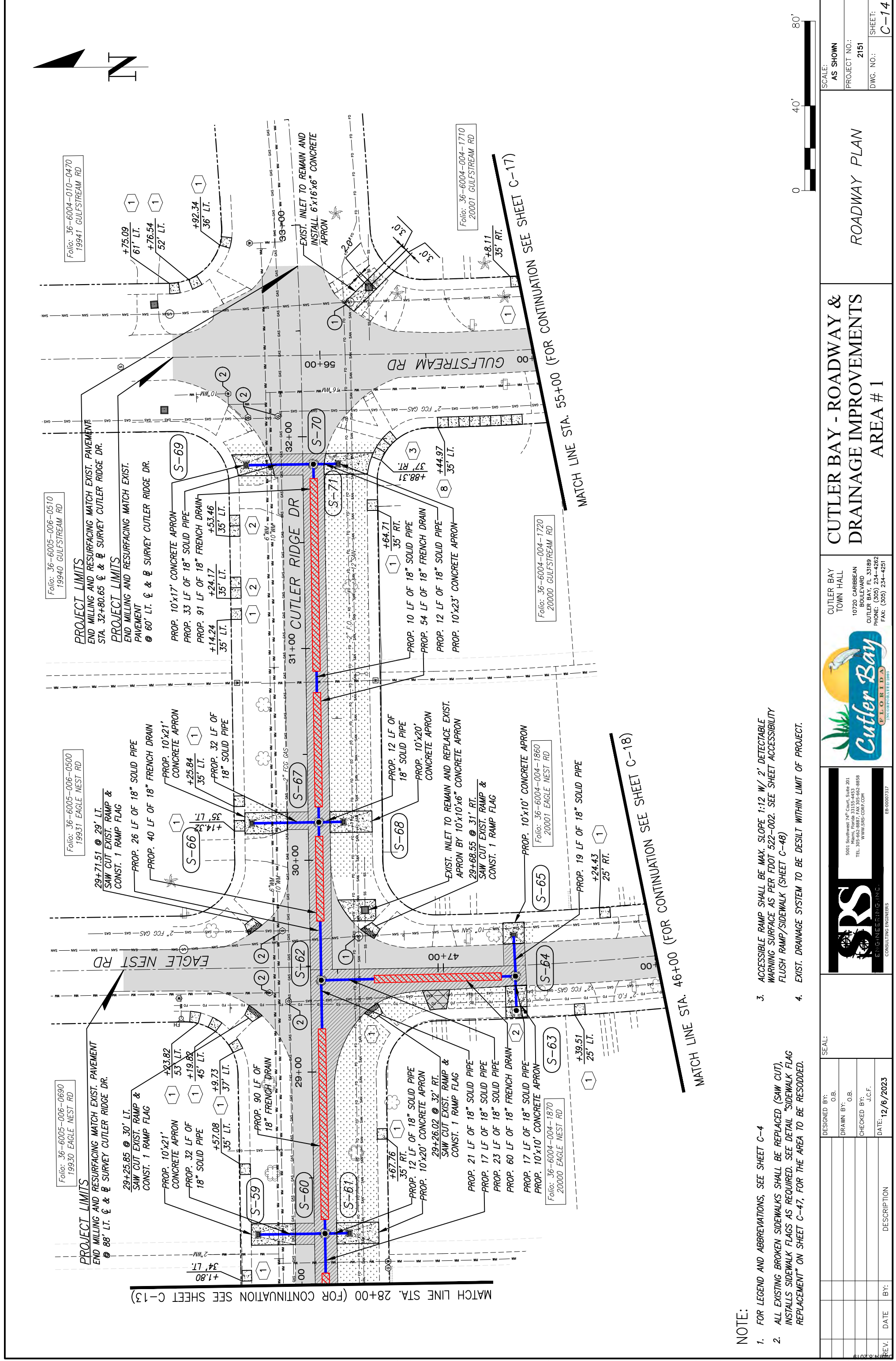
**CUTLER BAY - ROADWAY & DRAINAGE IMPROVEMENTS AREA #1**

SCALE: AS SHOWN  
 PROJECT NO.: 2151  
 DWG. NO.:  
 SHEET: C-13



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**NOTE:**

1. FOR LEGEND AND ABBREVIATIONS, SEE SHEET C-4
2. ALL EXISTING BROKEN SIDEWALKS SHALL BE REPLACED (SAW CUT). INSTALLS SIDEWALK FLAGS AS REQUIRED. SEE DETAIL "SIDEWALK FLAG REPLACEMENT" ON SHEET C-47, FOR THE AREA TO BE RESODDED.
3. ACCESSIBLE RAMP SHALL BE MAX. SLOPE 1:12 W/ 2' DETECTABLE WARNING SURFACE AS PER FDOT 522-002. SEE SHEET ACCESSIBILITY FLUSH RAMP/SIDEWALK (SHEET C-48)
4. EXIST. DRAINAGE SYSTEM TO BE DESILT WITHIN LIMIT OF PROJECT.

	DESIGNED BY: O.B.						
	DRAWN BY: O.B.						
	CHECKED BY: J.C.F.						
	DATE: 12/6/2023						
REV.	DATE	BY:	DESCRIPTION				

**SRS**  
ENGINEERING CONSULTING ENGINEERS

**Cutler Bay**  
FLORIDA INCORPORATED

CUTLER BAY  
TOWN HALL  
10720 CARIBBEAN  
BOULEVARD  
CUTLER BAY, FL 33189  
PHONE: (305) 234-4262  
FAX: (305) 234-4251

**CUTLER BAY - ROADWAY & DRAINAGE IMPROVEMENTS AREA # 1**

**ROADWAY PLAN**

SCALE:  
AS SHOWN

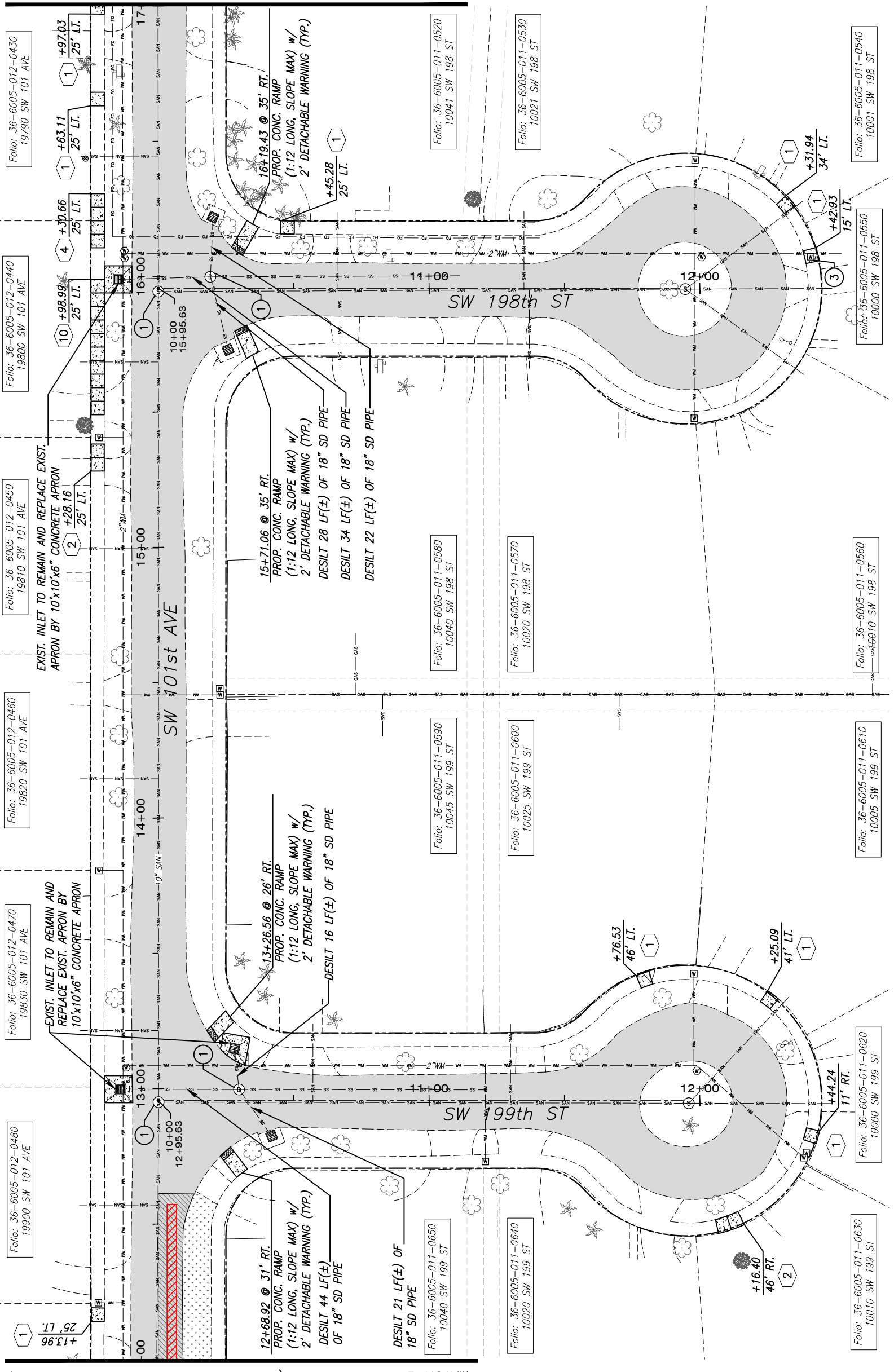
PROJECT NO.:  
**2151**

DWG. NO.:

SHEET:  
**C-14**

MATCH LINE STA. 12+00 (FOR CONTINUATION SEE SHEET C-12)

MATCH LINE STA. 17+00 (FOR CONTINUATION SEE SHEET C-16)



**NOTE:**

- FOR LEGEND AND ABBREVIATIONS, SEE SHEET C-4
- ALL EXISTING BROKEN SIDEWALKS SHALL BE REPLACED (SAW CUT). INSTALLS SIDEWALK FLAGS AS REQUIRED. SEE DETAIL "SIDEWALK FLAG REPLACEMENT" ON SHEET C-47, FOR THE AREA TO BE RESODDED.
- ACCESSIBLE RAMP SHALL BE MAX. SLOPE 1:12 W/ 2' DETECTABLE WARNING SURFACE AS PER FDOT 522-002. SEE SHEET ACCESSIBILITY FLUSH RAMP/SIDEWALK (SHEET C-48)
- EXIST. DRAINAGE SYSTEM TO BE DESILT WITHIN LIMIT OF PROJECT.

REV.	DATE	BY:	DESCRIPTION

DESIGNED BY: O.B.  
 DRAWN BY: O.B.  
 CHECKED BY: J.C.F.  
 DATE: 12/6/2023

SEAL:

5001 Southwest 74th Court, Suite 201  
 Miami, Florida 33152-4453  
 TEL: 305-662-8887 FAX: 305-662-8858  
 WWW.SRS-CORP.COM

**CUTLER BAY - ROADWAY & DRAINAGE IMPROVEMENTS AREA # 1**

**ROADWAY PLAN**

SCALE: AS SHOWN

PROJECT NO.: 2151

DWG. NO.: SHEET: C-15





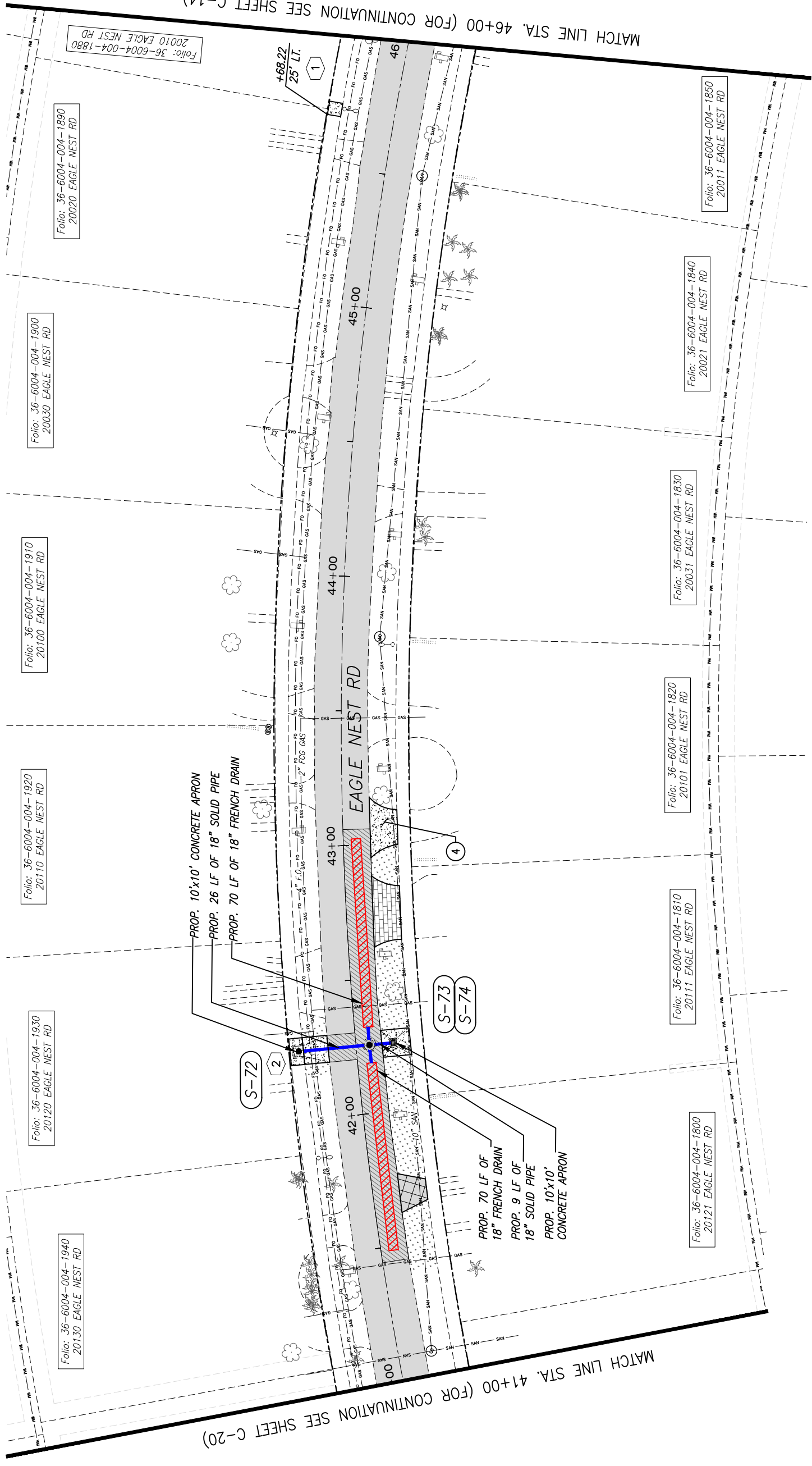




Filename: F:\Engineering\SR9 Projects\2021\2151 - PAGE 7\_29 ROADWAY PLAN (Area 1).dwg - Plot  
 ITB #24-02

MATCH LINE STA. 41+00 (FOR CONTINUATION SEE SHEET C-20)

MATCH LINE STA. 46+00 (FOR CONTINUATION SEE SHEET C-14)



**NOTE:**

1. FOR LEGEND AND ABBREVIATIONS, SEE SHEET C-4
2. ALL EXISTING BROKEN SIDEWALKS SHALL BE REPLACED (SAW CUT). INSTALLS SIDEWALK FLAGS AS REQUIRED. SEE DETAIL "SIDEWALK FLAG REPLACEMENT" ON SHEET C-47, FOR THE AREA TO BE RESODDED.
3. ACCESSIBLE RAMP SHALL BE MAX. SLOPE 1:12 W/ 2' DETECTABLE WARNING SURFACE AS PER FDOT 522-002. SEE SHEET ACCESSIBILITY FLUSH RAMP/SIDEWALK (SHEET C-48)
4. EXIST. DRAINAGE SYSTEM TO BE DESILT WITHIN LIMIT OF PROJECT.

REV.	DATE	BY:	DESCRIPTION

DESIGNED BY: O.B.  
 DRAWN BY: O.B.  
 CHECKED BY: J.C.F.  
 DATE: 12/6/2023

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**Cutler Bay**  
 FLORIDA  
 INCORPORATED 1981

CUTLER BAY  
 TOWN HALL  
 10720 CARIBBEAN  
 BOULEVARD  
 CUTLER BAY, FL 33189  
 PHONE: (305) 234-4262  
 FAX: (305) 234-4251

**CUTLER BAY - ROADWAY & DRAINAGE IMPROVEMENTS AREA # 1**

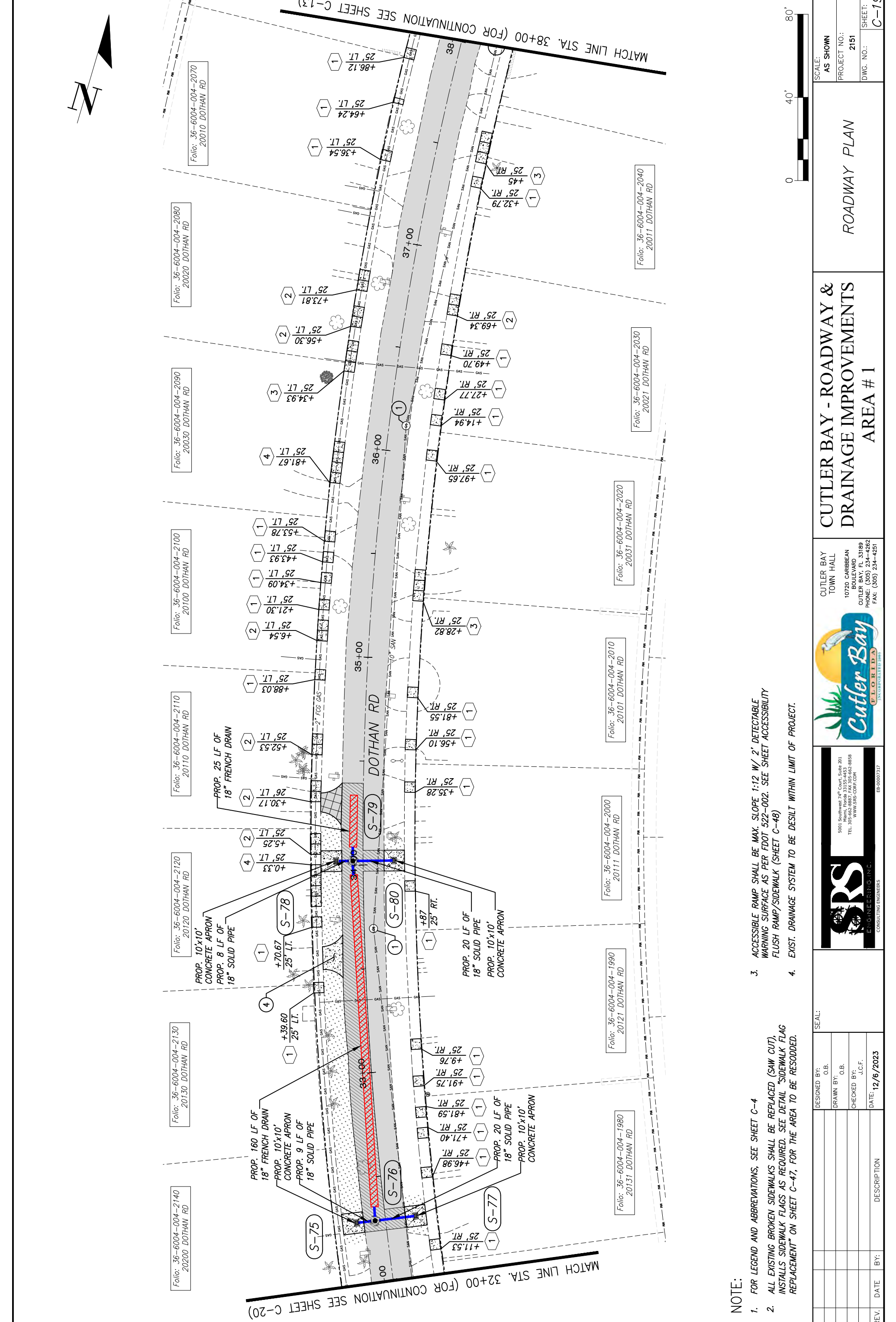
**ROADWAY PLAN**

SCALE: AS SHOWN  
 PROJECT NO.: 2151  
 DWG. NO.:  
 SHEET: C-18



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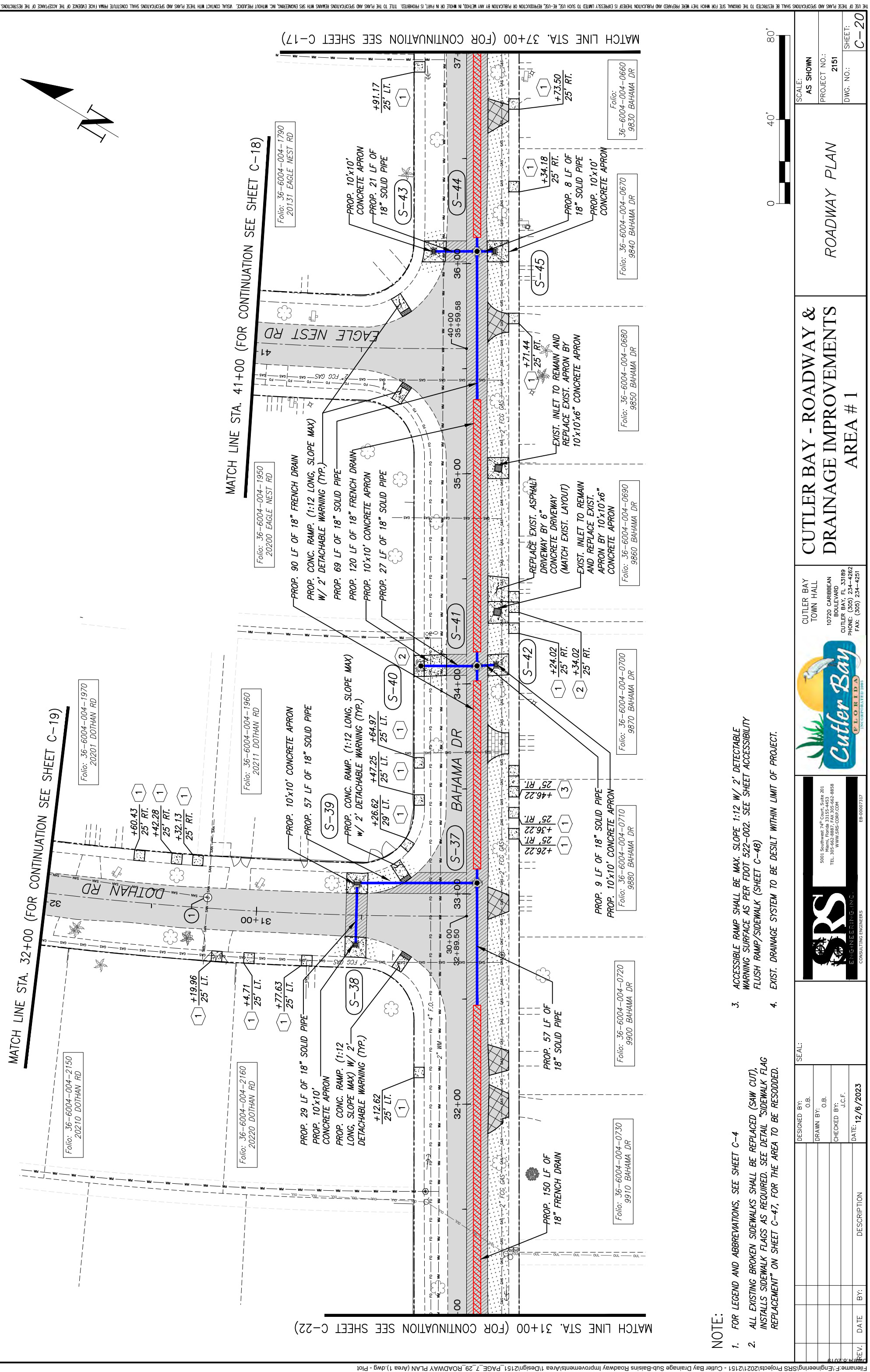




**NOTE:**

1. FOR LEGEND AND ABBREVIATIONS, SEE SHEET C-4
2. ALL EXISTING BROKEN SIDEWALKS SHALL BE REPLACED (SAW CUT), INSTALLS SIDEWALK FLAGS AS REQUIRED. SEE DETAIL "SIDEWALK FLAG REPLACEMENT" ON SHEET C-47, FOR THE AREA TO BE RESODDED.
3. ACCESSIBLE RAMP SHALL BE MAX. SLOPE 1:12 W/ 2' DETECTABLE WARNING SURFACE AS PER FDOT 522-002. SEE SHEET ACCESSIBILITY FLUSH RAMP/SIDEWALK (SHEET C-48)
4. EXIST. DRAINAGE SYSTEM TO BE DESILT WITHIN LIMIT OF PROJECT.

DESIGNED BY: O.B.	SEAL:			CUTLER BAY TOWN HALL 10720 CARIBBEAN BOULEVARD CUTLER BAY, FL 33189 PHONE: (305) 234-4262 FAX: (305) 234-4251	<b>CUTLER BAY - ROADWAY &amp; DRAINAGE IMPROVEMENTS AREA # 1</b>	SCALE: AS SHOWN
DRAWN BY: O.B.	PROJECT NO.: 2151					
CHECKED BY: J.C.F.	DWG. NO.:					
DATE: 12/6/2023	SHEET: C-19					



**NOTE:**

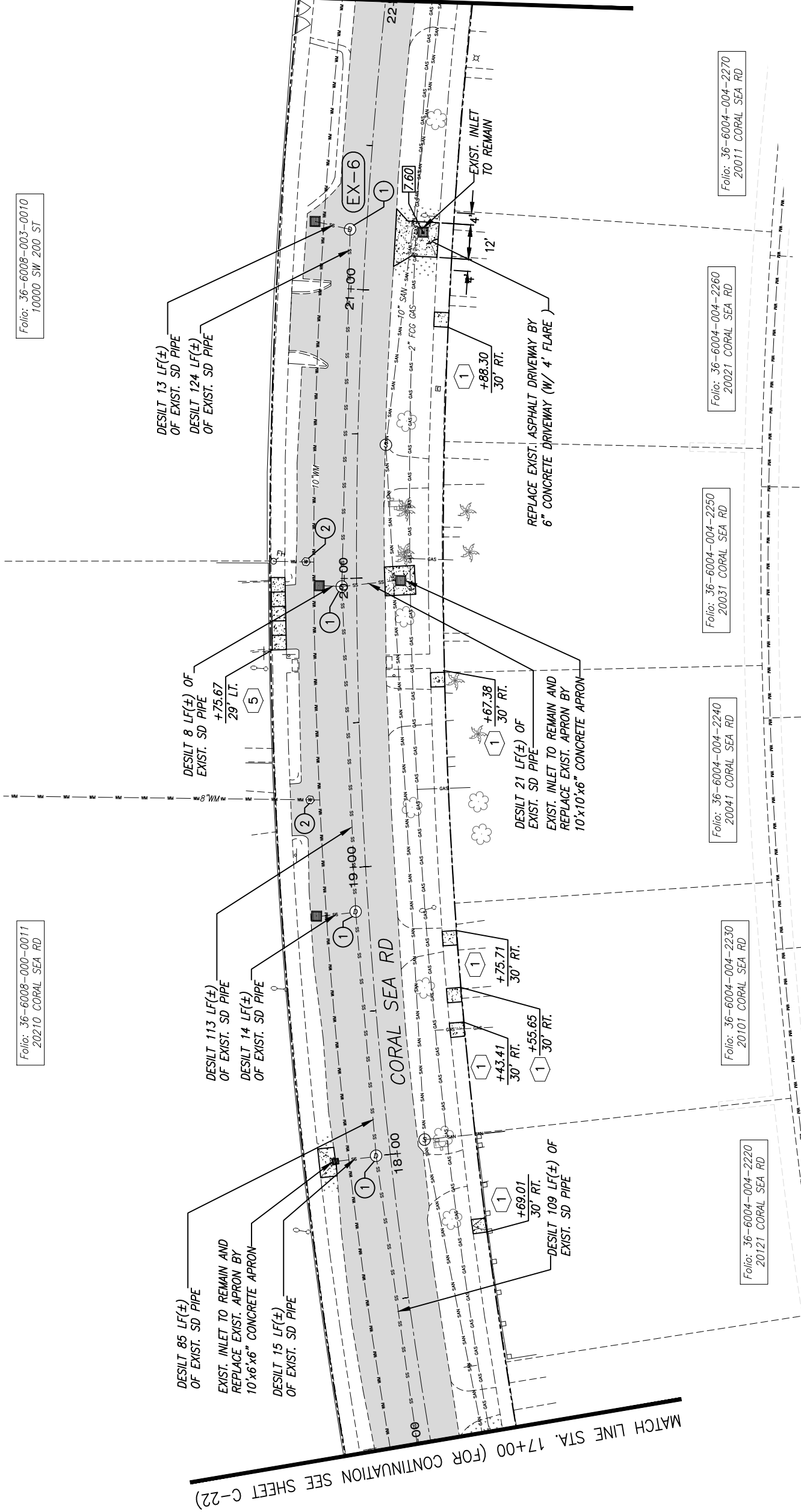
- FOR LEGEND AND ABBREVIATIONS, SEE SHEET C-4
- ALL EXISTING BROKEN SIDEWALKS SHALL BE REPLACED (SAW CUT). INSTALLS SIDEWALK FLAGS AS REQUIRED. SEE DETAIL "SIDEWALK FLAG REPLACEMENT" ON SHEET C-47, FOR THE AREA TO BE RESODDED.
- ACCESSIBLE RAMP SHALL BE MAX. SLOPE 1:12 W/ 2' DETECTABLE WARNING SURFACE AS PER FDOT 522-002. SEE SHEET ACCESSIBILITY FLUSH RAMP/SIDEWALK (SHEET C-48)
- EXIST. DRAINAGE SYSTEM TO BE DESILT WITHIN LIMIT OF PROJECT.

DESIGNED BY:	O.B.	SEAL:		CUTLER BAY TOWN HALL		<b>CUTLER BAY - ROADWAY &amp; DRAINAGE IMPROVEMENTS AREA # 1</b>	
DRAWN BY:	O.B.		10720 CARIBBEAN BOULEVARD	<b>ROADWAY PLAN</b>			
CHECKED BY:	J.C.F.		CUTLER BAY, FL 33189	<b>AREA # 1</b>			
DATE:	12/6/2023		WWW.BIG-CORP.COM	PHONE: (305) 234-4262	<b>PROJECT NO.: 2151</b>	<b>AS SHOWN</b>	<b>SHEET: C-20</b>
REV.	DATE	BY:	DESCRIPTION	FAX: (305) 234-4251			





MATCH LINE STA. 17+00 (FOR CONTINUATION SEE SHEET C-22)



Folio: 36-6008-003-0010  
 10000 SW 200 ST

Folio: 36-6008-000-0011  
 20210 CORAL SEA RD

Folio: 36-6004-004-2270  
 20011 CORAL SEA RD

Folio: 36-6004-004-2260  
 20021 CORAL SEA RD

Folio: 36-6004-004-2250  
 20031 CORAL SEA RD

Folio: 36-6004-004-2240  
 20041 CORAL SEA RD

Folio: 36-6004-004-2230  
 20101 CORAL SEA RD

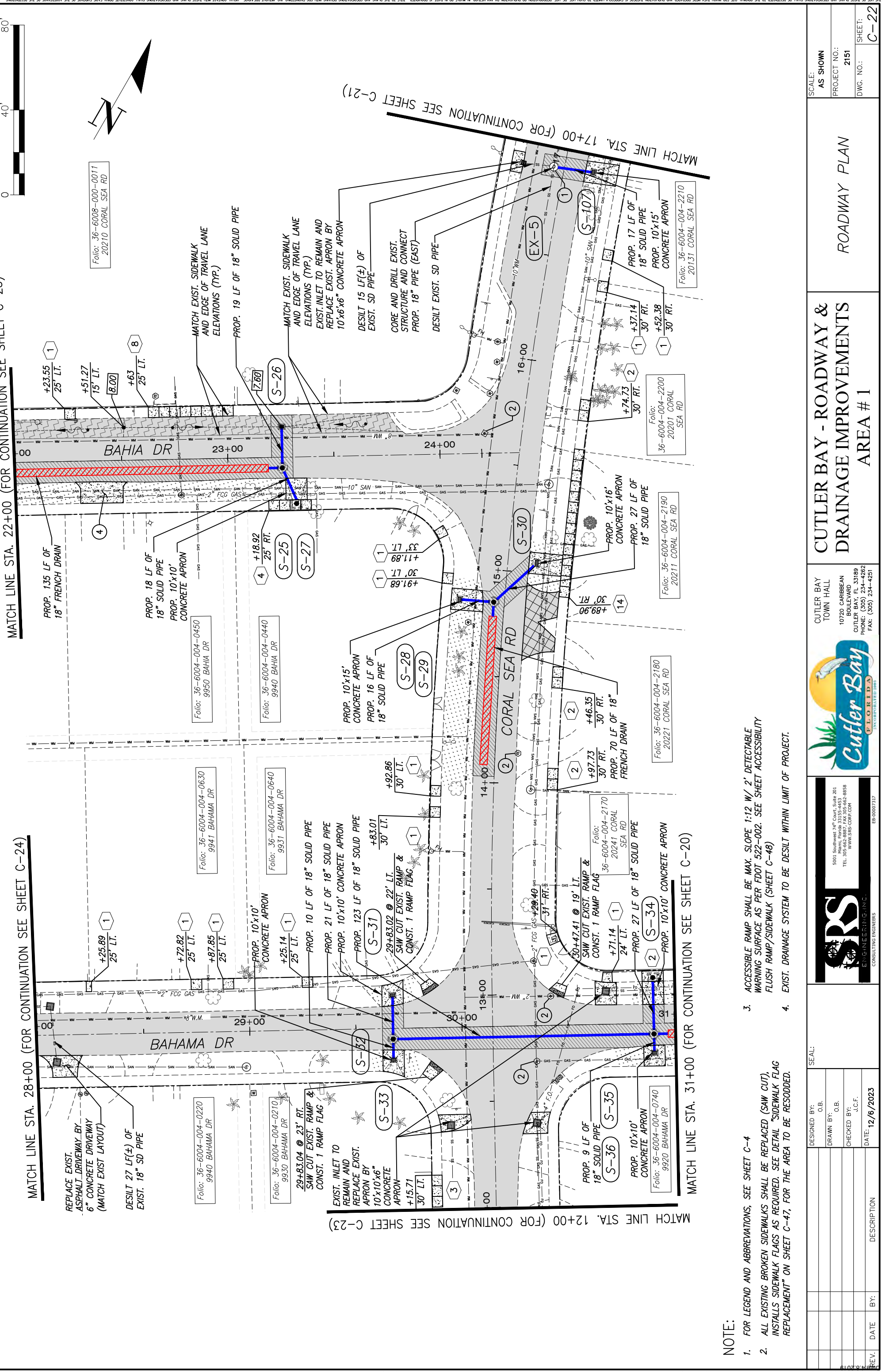
Folio: 36-6004-004-2220  
 20121 CORAL SEA RD

NOTE:

- FOR LEGEND AND ABBREVIATIONS, SEE SHEET C-4
- ALL EXISTING BROKEN SIDEWALKS SHALL BE REPLACED (SAW CUT), INSTALLS SIDEWALK FLAGS AS REQUIRED. SEE DETAIL "SIDEWALK FLAG REPLACEMENT" ON SHEET C-47, FOR THE AREA TO BE RESODDED.
- ACCESSIBLE RAMP SHALL BE MAX. SLOPE 1:12 W/ 2' DETECTABLE WARNING SURFACE AS PER FDOT 522-002. SEE SHEET ACCESSIBILITY FLUSH RAMP/SIDEWALK (SHEET C-48)
- EXIST. DRAINAGE SYSTEM TO BE DESILT WITHIN LIMIT OF PROJECT.



DESIGNED BY: O.B.	DRAWN BY: O.B.	CHECKED BY: J.C.F.	DATE: 12/6/2023	SEAL:			CUTLER BAY TOWN HALL 10720 CARIBBEAN BOULEVARD CUTLER BAY, FL 33189 PHONE: (305) 234-4262 FAX: (305) 234-4251	<b>CUTLER BAY - ROADWAY &amp; DRAINAGE IMPROVEMENTS AREA # 1</b>	ROADWAY PLAN	SCALE: AS SHOWN
										PROJECT NO.: 2151



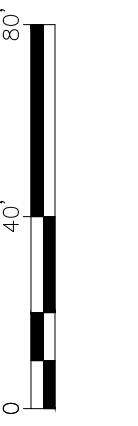
MATCH LINE STA. 22+00 (FOR CONTINUATION SEE SHEET C-25)

MATCH LINE STA. 28+00 (FOR CONTINUATION SEE SHEET C-24)

MATCH LINE STA. 12+00 (FOR CONTINUATION SEE SHEET C-23)

MATCH LINE STA. 31+00 (FOR CONTINUATION SEE SHEET C-20)

MATCH LINE STA. 17+00 (FOR CONTINUATION SEE SHEET C-21)



**NOTE:**

- FOR LEGEND AND ABBREVIATIONS, SEE SHEET C-4
- ALL EXISTING BROKEN SIDEWALKS SHALL BE REPLACED (SAW CUT). INSTALLS SIDEWALK FLAGS AS REQUIRED. SEE DETAIL "SIDEWALK FLAG REPLACEMENT" ON SHEET C-47, FOR THE AREA TO BE RESODDED.
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- EXIST. DRAINAGE SYSTEM TO BE DESILT WITHIN LIMIT OF PROJECT.

REV.	DATE	BY:	DESCRIPTION

DESIGNED BY:	O.B.
DRAWN BY:	O.B.
CHECKED BY:	J.C.F.
DATE:	12/6/2023

SEAL:	
-------	--

<small>5001 Southwest 74th Court, Suite 201 Miami, Florida 33152-4453 TEL: 305-662-8887 FAX: 305-662-8858 WWW.SRS-CORP.COM</small>	

<small>CUTLER BAY TOWN HALL 10720 CARIBBEAN BOULEVARD CUTLER BAY, FL 33189 PHONE: (305) 234-4262 FAX: (305) 234-4251</small>	

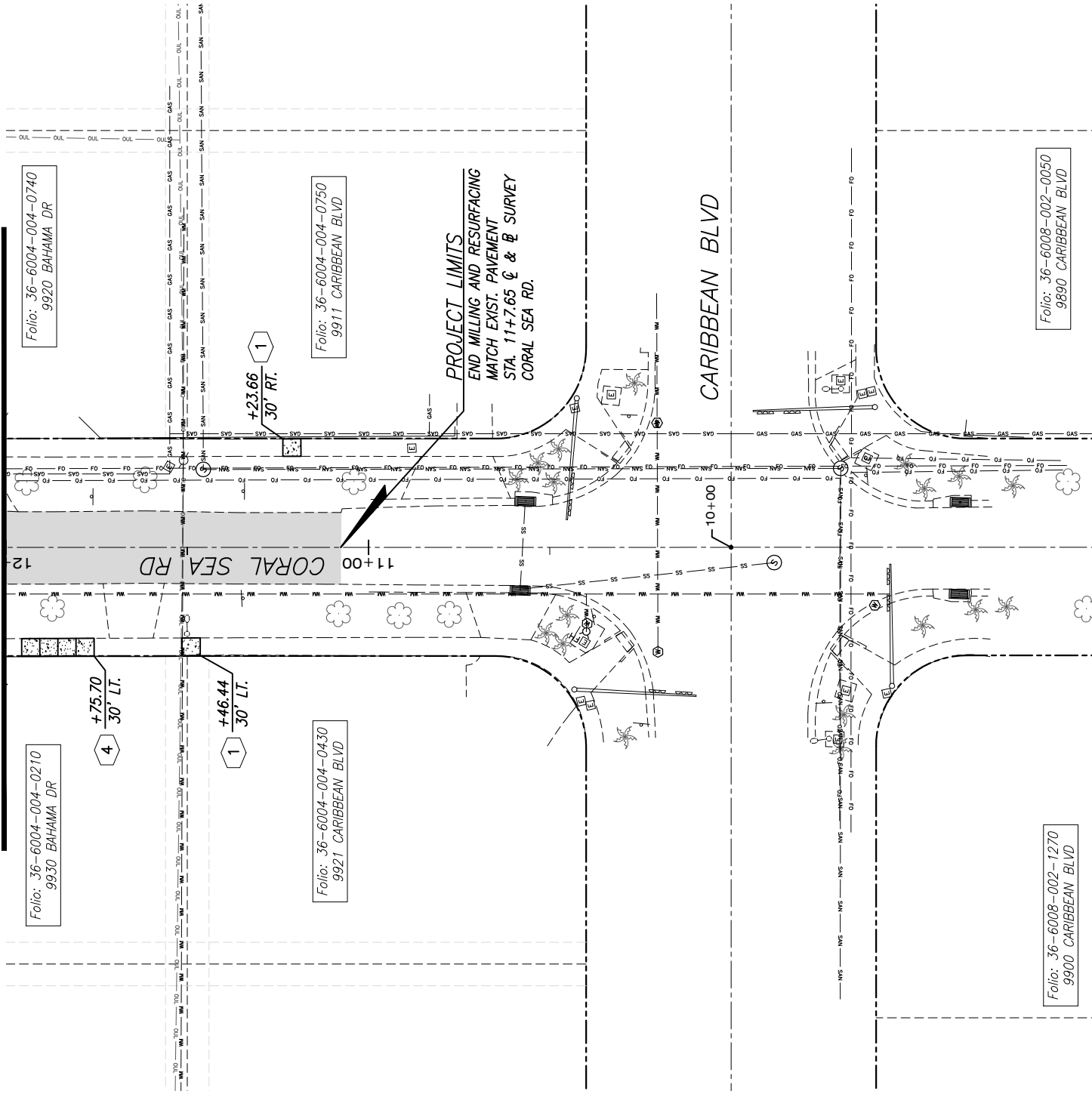
  

<b>CUTLER BAY - ROADWAY &amp; DRAINAGE IMPROVEMENTS AREA # 1</b>	
<b>ROADWAY PLAN</b>	

SCALE:	AS SHOWN
PROJECT NO.:	2151
DWG. NO.:	
SHEET:	C-22

MATCH LINE STA. 12+00 (FOR CONTINUATION SEE SHEET C-22)



**PROJECT LIMITS**  
END MILLING AND RESURFACING  
MATCH EXIST. PAVEMENT  
STA. 11+7.65 @ & @ SURVEY  
CORAL SEA RD.

**NOTE:**

1. FOR LEGEND AND ABBREVIATIONS, SEE SHEET C-4
2. ALL EXISTING BROKEN SIDEWALKS SHALL BE REPLACED (SAW CUT), INSTALLS SIDEWALK FLAGS AS REQUIRED. SEE DETAIL "SIDEWALK FLAG REPLACEMENT" ON SHEET C-47, FOR THE AREA TO BE RESODDED.
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4. EXIST. DRAINAGE SYSTEM TO BE DESILT WITHIN LIMIT OF PROJECT.



REV.	DATE	BY:	DESCRIPTION

DESIGNED BY: O.B.  
DRAWN BY: O.B.  
CHECKED BY: J.C.F.  
DATE: 12/6/2023

SEAL:

5001 Southwest 74<sup>th</sup> Court, Suite 201  
Miami, Florida 33152-4453  
TEL: 305-662-8887 FAX: 305-662-8858  
WWW.SRS-CORP.COM

CUTLER BAY TOWN HALL  
10720 CARIBBEAN BOULEVARD  
CUTLER BAY, FL 33189  
PHONE: (305) 234-4262  
FAX: (305) 234-4251

SCALE: AS SHOWN

PROJECT NO.: 2151

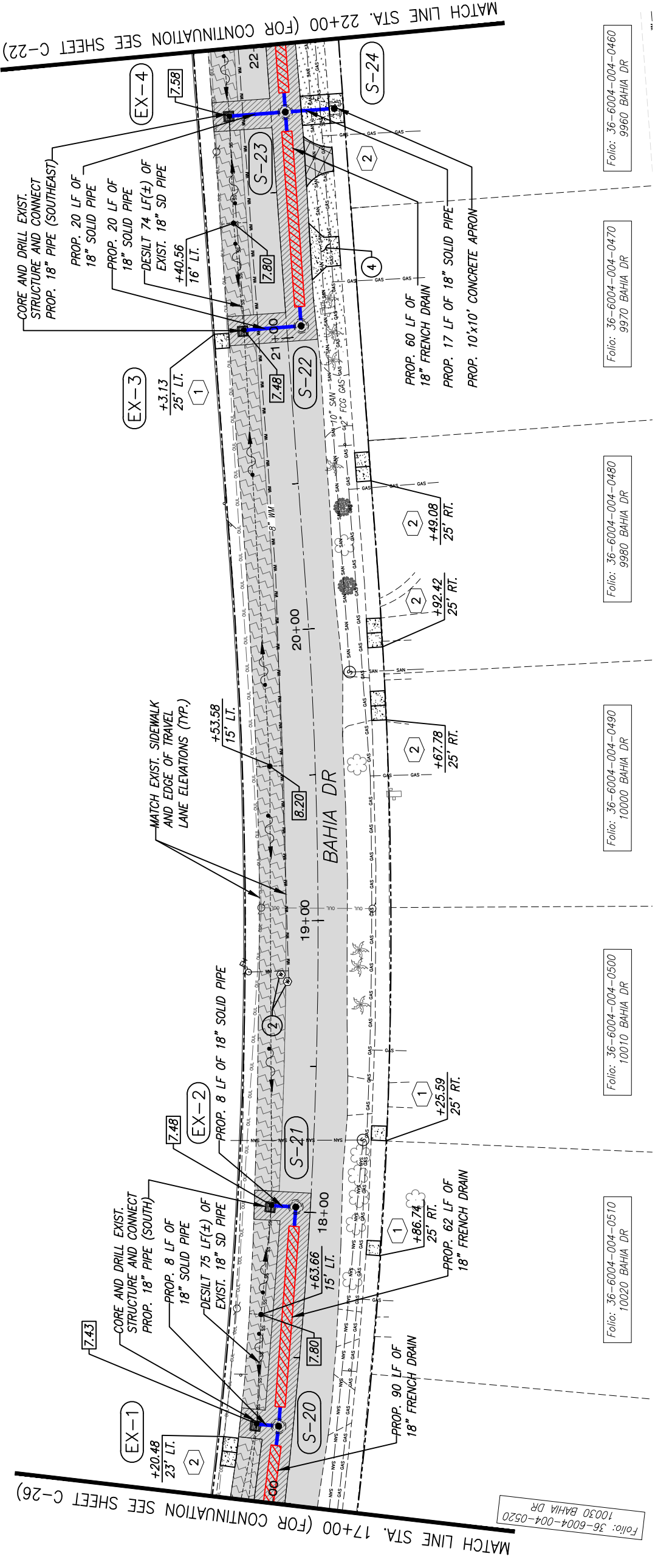
DWG. NO.: ROADWAY PLAN

SHEET: C-23









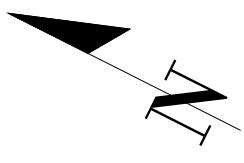
Folio: 36-6008-000-0011  
20210 CORAL SEA RD

MATCH LINE STA. 22+00 (FOR CONTINUATION SEE SHEET C-22)

MATCH LINE STA. 17+00 (FOR CONTINUATION SEE SHEET C-26)

**NOTE:**

- FOR LEGEND AND ABBREVIATIONS, SEE SHEET C-4
- ALL EXISTING BROKEN SIDEWALKS SHALL BE REPLACED (SAW CUT). INSTALLS SIDEWALK FLAGS AS REQUIRED. SEE DETAIL "SIDEWALK FLAG REPLACEMENT" ON SHEET C-47, FOR THE AREA TO BE RESODDED.
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- EXIST. DRAINAGE SYSTEM TO BE DESILT WITHIN LIMIT OF PROJECT.

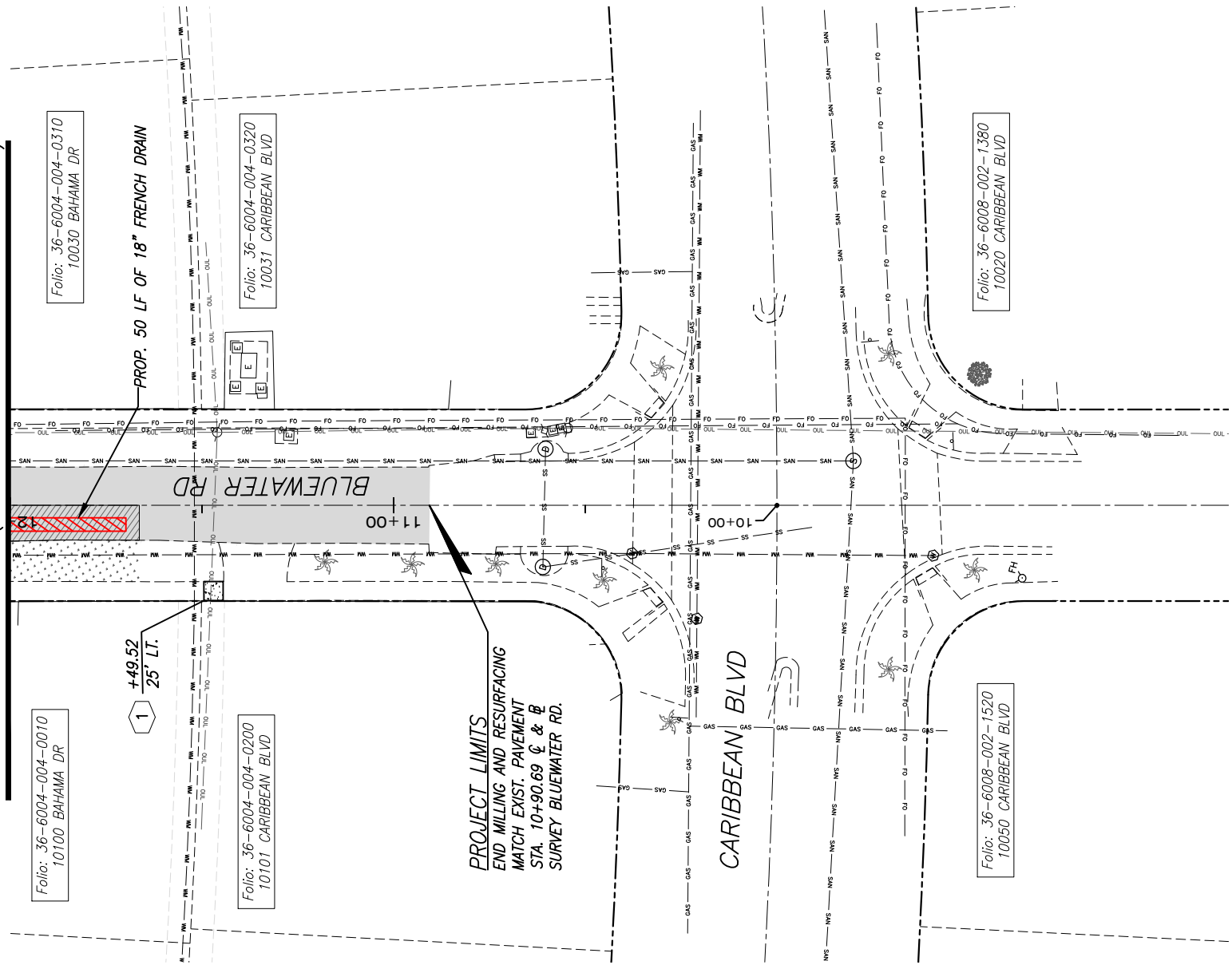


		<b>CUTLER BAY - ROADWAY &amp; DRAINAGE IMPROVEMENTS AREA # 1</b>		<b>ROADWAY PLAN</b>	
CUTLER BAY TOWN HALL 10720 CARIBBEAN BOULEVARD CUTLER BAY, FL 33189 PHONE: (305) 234-4262 FAX: (305) 234-4251		SCALE: AS SHOWN PROJECT NO.: 2151 DWG. NO.: SHEET: C-25			
		DESIGNED BY: O.B. DRAWN BY: O.B. CHECKED BY: J.C.F. DATE: 12/6/2023		SEAL:	
5001 Southwest 74th Court, Suite 201 Miami, Florida 33152-4453 TEL: 305-662-8887 FAX: 305-662-8858 WWW.SRS-CON.COM		CONSULTING ENGINEERS EB-00007317			
REV.	DATE	BY:	DESCRIPTION		

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MATCH LINE STA. 12+00 (FOR CONTINUATION SEE SHEET C-26)



**NOTE:**

1. FOR LEGEND AND ABBREVIATIONS, SEE SHEET C-4
2. ALL EXISTING BROKEN SIDEWALKS SHALL BE REPLACED (SAW CUT), INSTALLS SIDEWALK FLAGS AS REQUIRED. SEE DETAIL "SIDEWALK FLAG REPLACEMENT" ON SHEET C-47, FOR THE AREA TO BE RESODDED.
3. ACCESSIBLE RAMP SHALL BE MAX. SLOPE 1:12 W/ 2' DETECTABLE WARNING SURFACE AS PER FDOT 522-002. SEE SHEET ACCESSIBILITY FLUSH RAMP/SIDEWALK (SHEET C-48)
4. EXIST. DRAINAGE SYSTEM TO BE DESILT WITHIN LIMIT OF PROJECT.



REV.	DATE	BY:	DESCRIPTION

DESIGNED BY: C.B.  
 DRAWN BY: C.B.  
 CHECKED BY: J.C.F.  
 DATE: 12/6/2023

**SRS**  
 ENGINEERS ARCHITECTS  
 CONSULTING ENGINEERS  
 5001 Southwest 74th Court, Suite 201  
 Miami, Florida 33155-4453  
 TEL: 305-662-8887 FAX: 305-662-8858  
 WWW.SRS-CON.COM

**Cutler Bay**  
 FLORIDA  
 INCORPORATED 1981  
 CUTLER BAY TOWN HALL  
 10720 CARIBBEAN BOULEVARD  
 CUTLER BAY, FL 33189  
 PHONE: (305) 234-4262  
 FAX: (305) 234-4251

**CUTLER BAY - ROADWAY & DRAINAGE IMPROVEMENTS AREA # 1**

SCALE: AS SHOWN  
 PROJECT NO.: 2151  
 DWG. NO.:  
 SHEET: C-27

ROADWAY PLAN



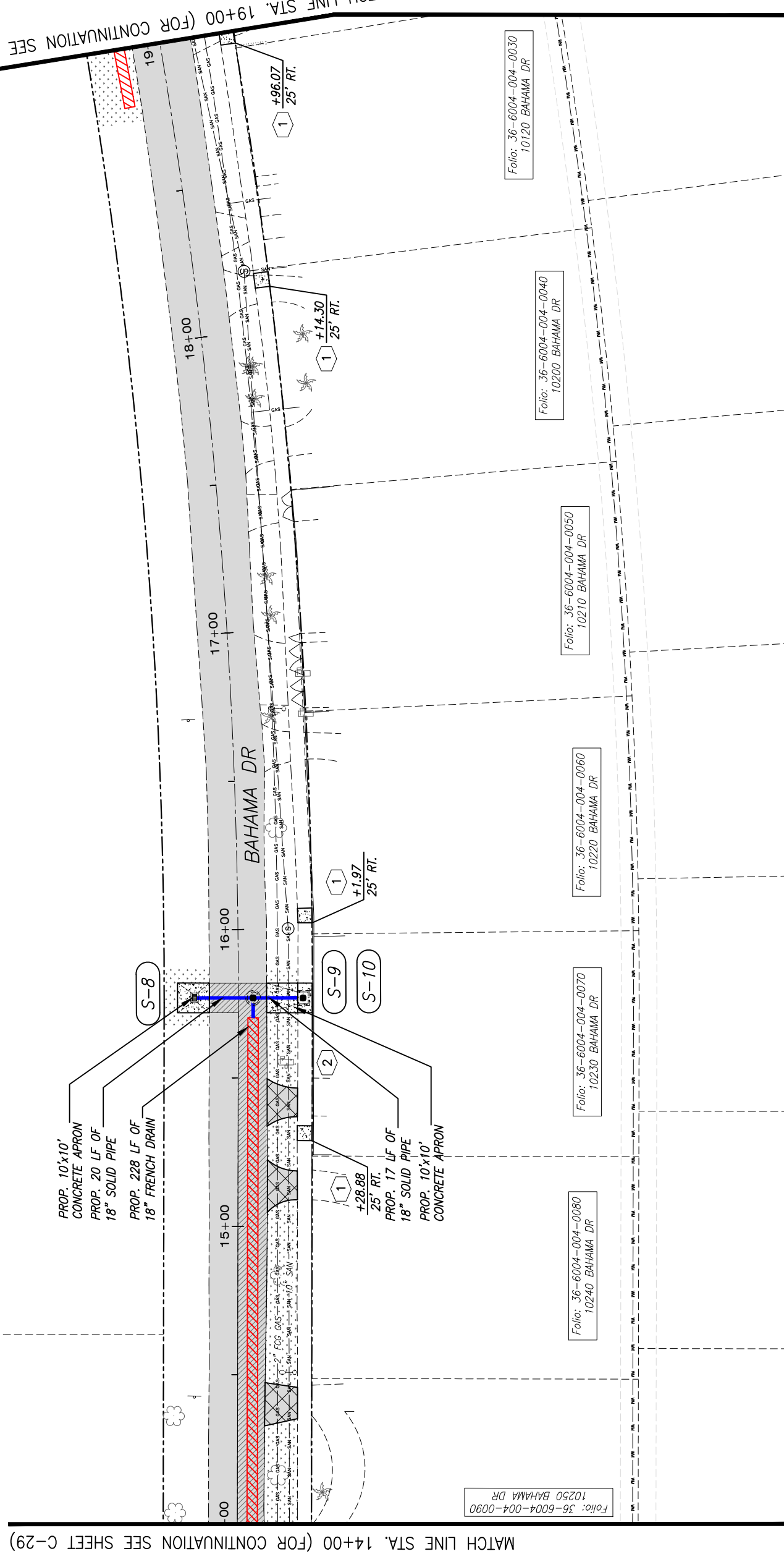


MATCH LINE STA. 14+00 (FOR CONTINUATION SEE SHEET C-29)

MATCH LINE STA. 19+00 (FOR CONTINUATION SEE SHEET C-26)

Folio: 36-6008-000-0016

Folio: 36-6008-000-0014  
10301 CARIBBEAN BLVD



PROP. 10'x10' CONCRETE APRON  
PROP. 20 LF OF 18" SOLID PIPE  
PROP. 228 LF OF 18" FRENCH DRAIN

PROP. 17 LF OF 18" SOLID PIPE  
PROP. 10'x10' CONCRETE APRON

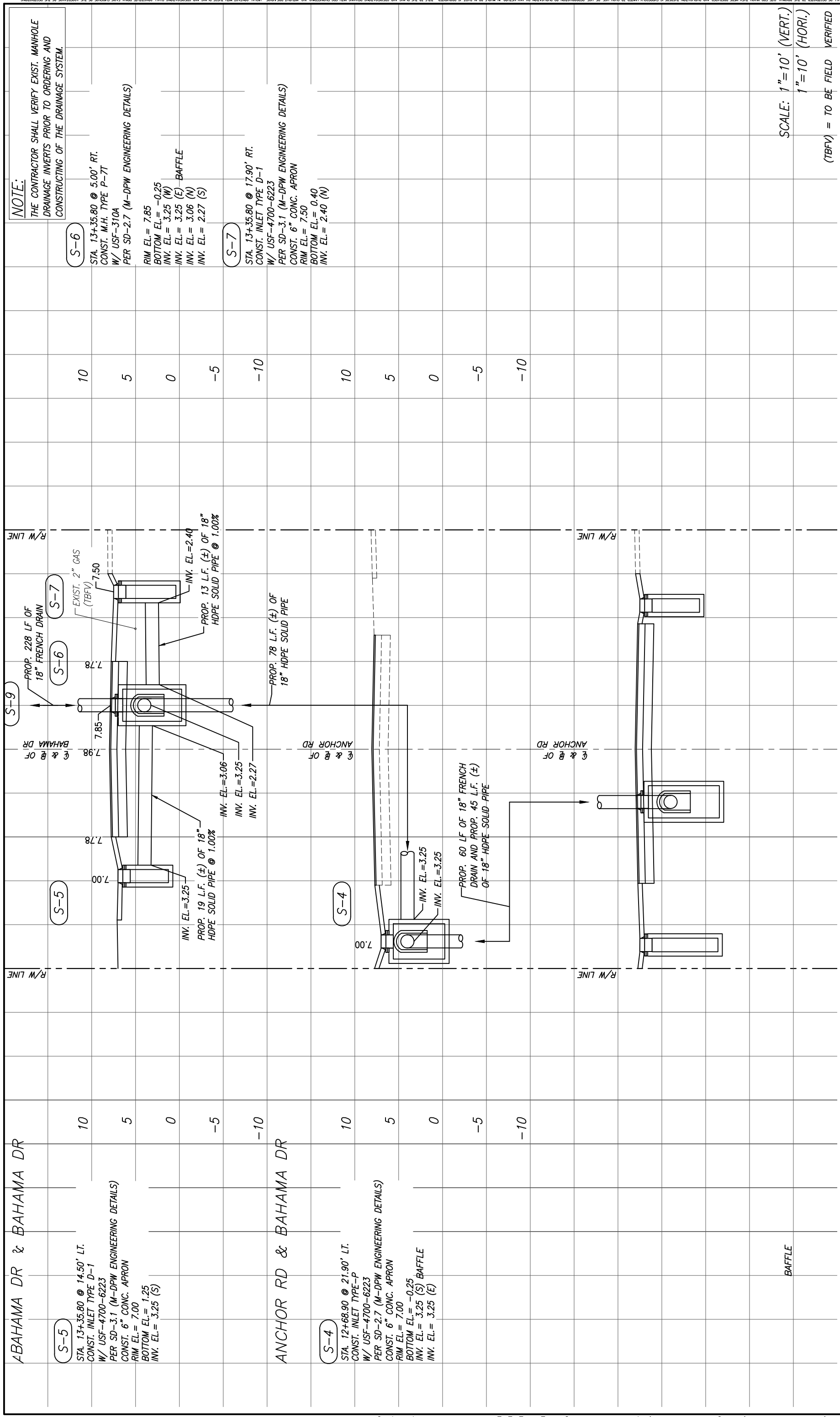
**NOTE:**

1. FOR LEGEND AND ABBREVIATIONS, SEE SHEET C-4
2. ALL EXISTING BROKEN SIDEWALKS SHALL BE REPLACED (SAW CUT), INSTALLS SIDEWALK FLAGS AS REQUIRED. SEE DETAIL "SIDEWALK FLAG REPLACEMENT" ON SHEET C-47, FOR THE AREA TO BE RESODDED.
3. ACCESSIBLE RAMP SHALL BE MAX. SLOPE 1:12 W/ 2' DETECTABLE WARNING SURFACE AS PER FDOT 522-002. SEE SHEET ACCESSIBILITY FLUSH RAMP/SIDEWALK (SHEET C-48)
4. EXIST. DRAINAGE SYSTEM TO BE DESILT WITHIN LIMIT OF PROJECT.



DESIGNED BY: O.B.		DRAWN BY: O.B.		CHECKED BY: J.C.F.		DATE: 12/6/2023	
REV.		DATE		BY:		DESCRIPTION	
5001 Southwest 74th Court, Suite 201 Miami, Florida 33152-4453 TEL: 305-662-8887 FAX: 305-662-8858 WWW.SRS-CORP.COM							
CUTLER BAY TOWN HALL 10720 CARIBBEAN BOULEVARD CUTLER BAY, FL 33189 PHONE: (305) 234-4262 FAX: (305) 234-4251							
<b>CUTLER BAY - ROADWAY &amp; DRAINAGE IMPROVEMENTS AREA # 1</b>				<b>ROADWAY PLAN</b>			
SCALE: AS SHOWN		PROJECT NO.: 2151		DWG. NO.:		SHEET: C-28	





**NOTE:**  
THE CONTRACTOR SHALL VERIFY EXIST. MANHOLE DRAINAGE INVERTS PRIOR TO ORDERING AND CONSTRUCTING OF THE DRAINAGE SYSTEM.

**S-6**  
STA. 13+35.80 @ 5.00' RT.  
CONST. M.H. TYPE P-7T  
W/ USF-310A  
PER SD-2.7 (M-DPW ENGINEERING DETAILS)  
RIM EL.= 7.85  
BOTTOM EL.= -0.25  
INV. EL.= 3.25 (W)  
INV. EL.= 3.25 (E) BAFFLE  
INV. EL.= 3.06 (N)  
INV. EL.= 2.27 (S)

**S-7**  
STA. 13+35.80 @ 17.90' RT.  
CONST. INLET TYPE D-1  
W/ USF-4700-6223  
PER SD-3.1 (M-DPW ENGINEERING DETAILS)  
CONST. 6" CONC. APRON  
RIM EL.= 7.50  
BOTTOM EL.= 0.40  
INV. EL.= 2.40 (N)

SCALE: 1"=10' (VERT.)  
1"=10' (HORI.)  
(TBFV) = TO BE FIELD VERIFIED

**S-5**  
ABAHAMA DR & BAHAMA DR  
STA. 13+35.80 @ 14.50' LT.  
CONST. INLET TYPE D-1  
W/ USF-4700-6223  
PER SD-3.1 (M-DPW ENGINEERING DETAILS)  
CONST. 6" CONC. APRON  
RIM EL.= 7.00  
BOTTOM EL.= 1.25  
INV. EL.= 3.25 (S)

**S-4**  
ANCHOR RD & BAHAMA DR  
STA. 12+68.90 @ 21.90' LT.  
CONST. INLET TYPE-P  
W/ USF-4700-6223  
PER SD-2.7 (M-DPW ENGINEERING DETAILS)  
CONST. 6" CONC. APRON  
RIM EL.= 7.00  
BOTTOM EL.= -0.25  
INV. EL.= 3.25 (S) BAFFLE  
INV. EL.= 3.25 (E)

DESIGNED BY:	C.B.	SEAL:	
DRAWN BY:	C.B.		
CHECKED BY:	J.C.F.		
DATE:	12/6/2023		
REV.	DATE	BY:	DESCRIPTION
			BAFFLE

5001 Southwest 74<sup>th</sup> Court, Suite 201  
Miami, Florida 33155-4453  
TEL: 305-662-8887, FAX: 305-662-8858  
WWW.SRS-CON.COM

CUTLER BAY  
TOWN HALL  
10720 CARIBBEAN  
BOULEVARD  
CUTLER BAY, FL 33189  
PHONE: (305) 234-4262  
FAX: (305) 234-4251

CUTLER BAY - ROADWAY &  
DRAINAGE IMPROVEMENTS  
AREA # 1

DRAINAGE STRUCTURES

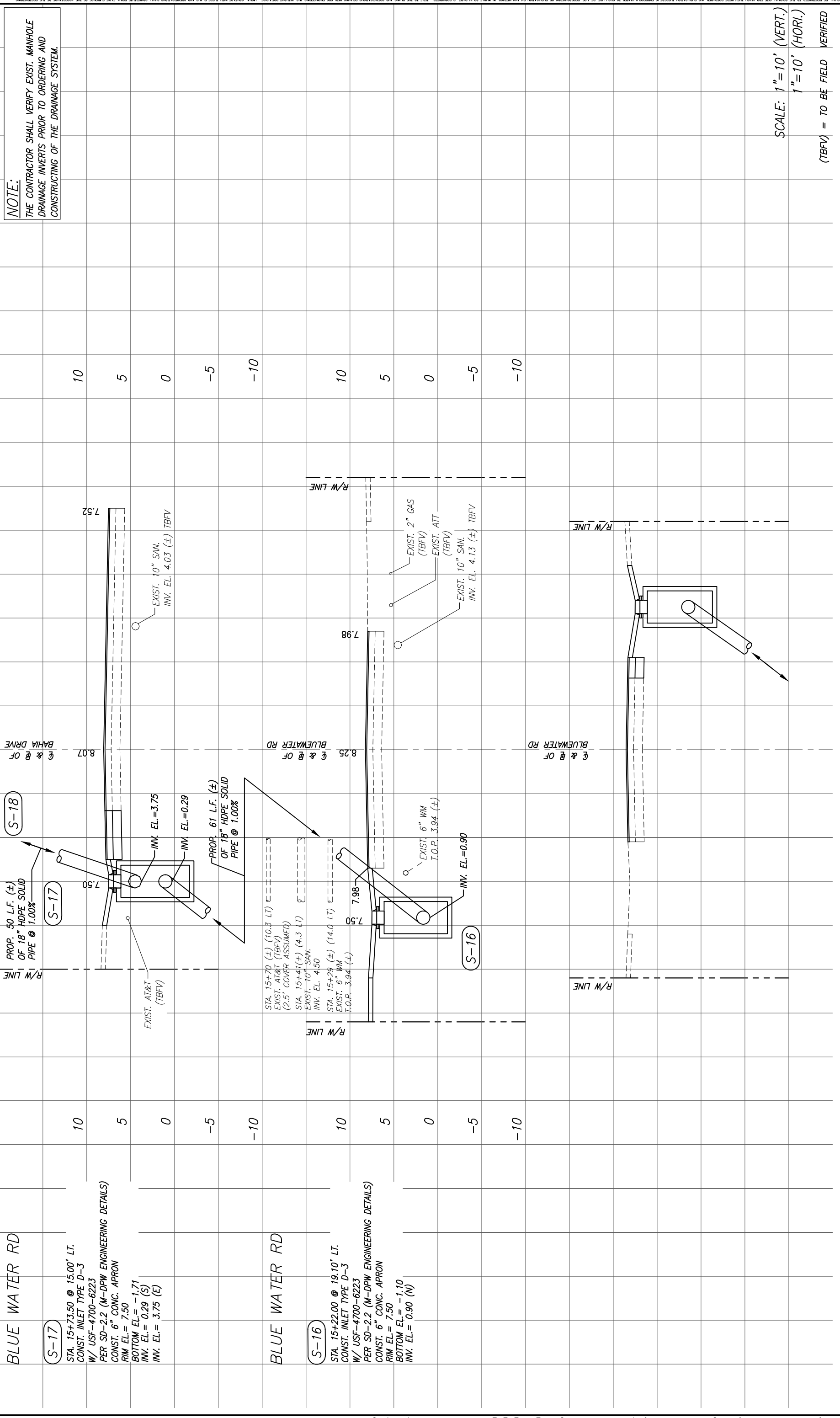
SCALE: AS SHOWN

PROJECT NO.: 2151

DWG. NO.: SHEET: C-30







**NOTE:**  
 THE CONTRACTOR SHALL VERIFY EXIST. MANHOLE DRAINAGE INVERTS PRIOR TO ORDERING AND CONSTRUCTING OF THE DRAINAGE SYSTEM.

SCALE: 1"=10' (VERT.)  
 1"=10' (HORI.)  
 (TBFV) = TO BE FIELD VERIFIED

DESIGNED BY:	C.B.	SEAL:	
DRAWN BY:	C.B.		
CHECKED BY:	J.C.F.		
DATE:	12/6/2023		
REV.	DATE	BY:	DESCRIPTION

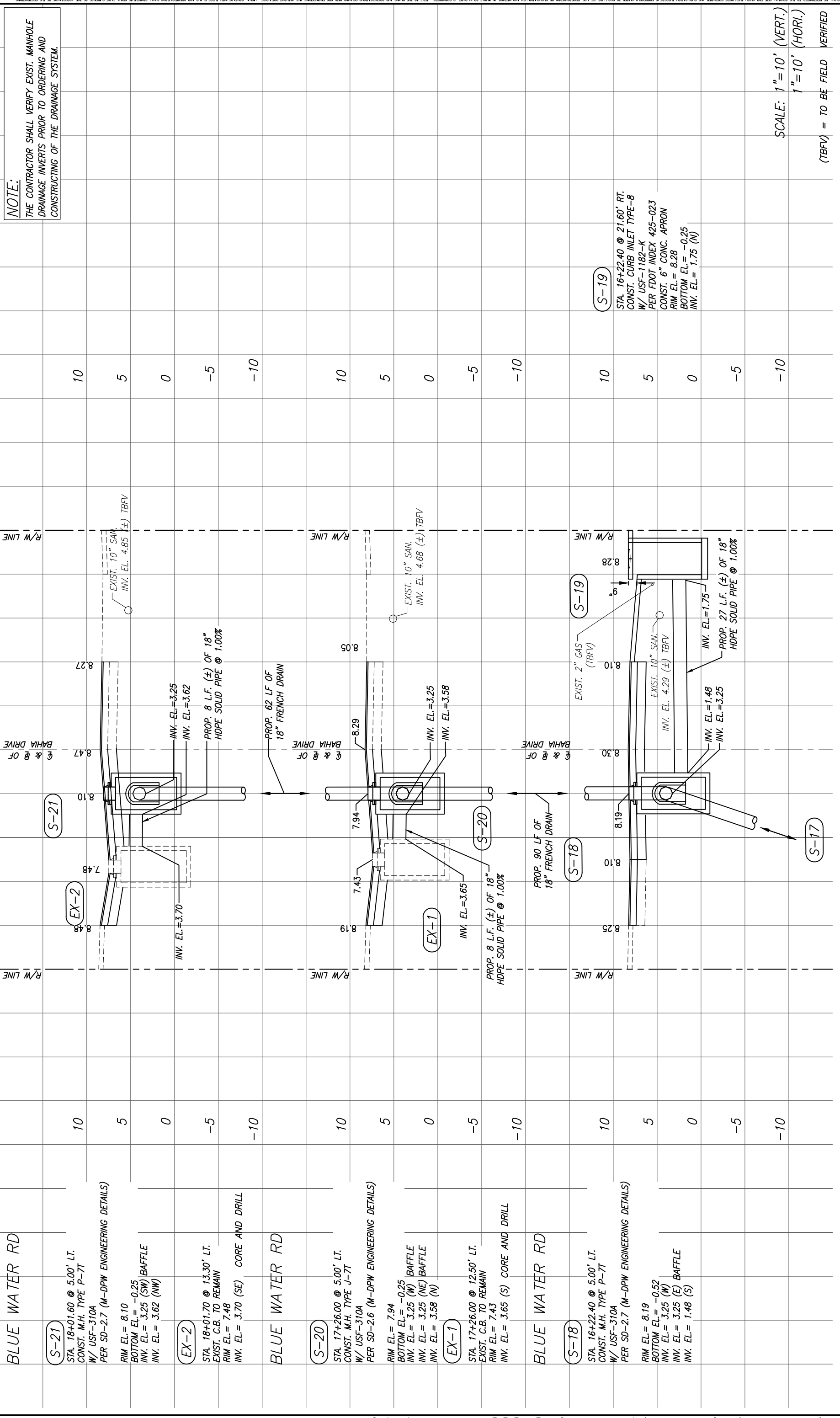
5001 Southeast 74th Court, Suite 201  
 Miami, Florida 33155-4453  
 TEL: 305-662-8887, FAX: 305-662-8858  
 WWW.SRS-CON.COM

CUTLER BAY  
 TOWN HALL  
 10720 CARIBBEAN BOULEVARD  
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 PHONE: (305) 234-4262  
 FAX: (305) 234-4251

**CUTLER BAY - ROADWAY & DRAINAGE IMPROVEMENTS AREA # 1**

**DRAINAGE STRUCTURES**

SCALE:	AS SHOWN
PROJECT NO.:	2151
DWG. NO.:	
SHEET:	C-32

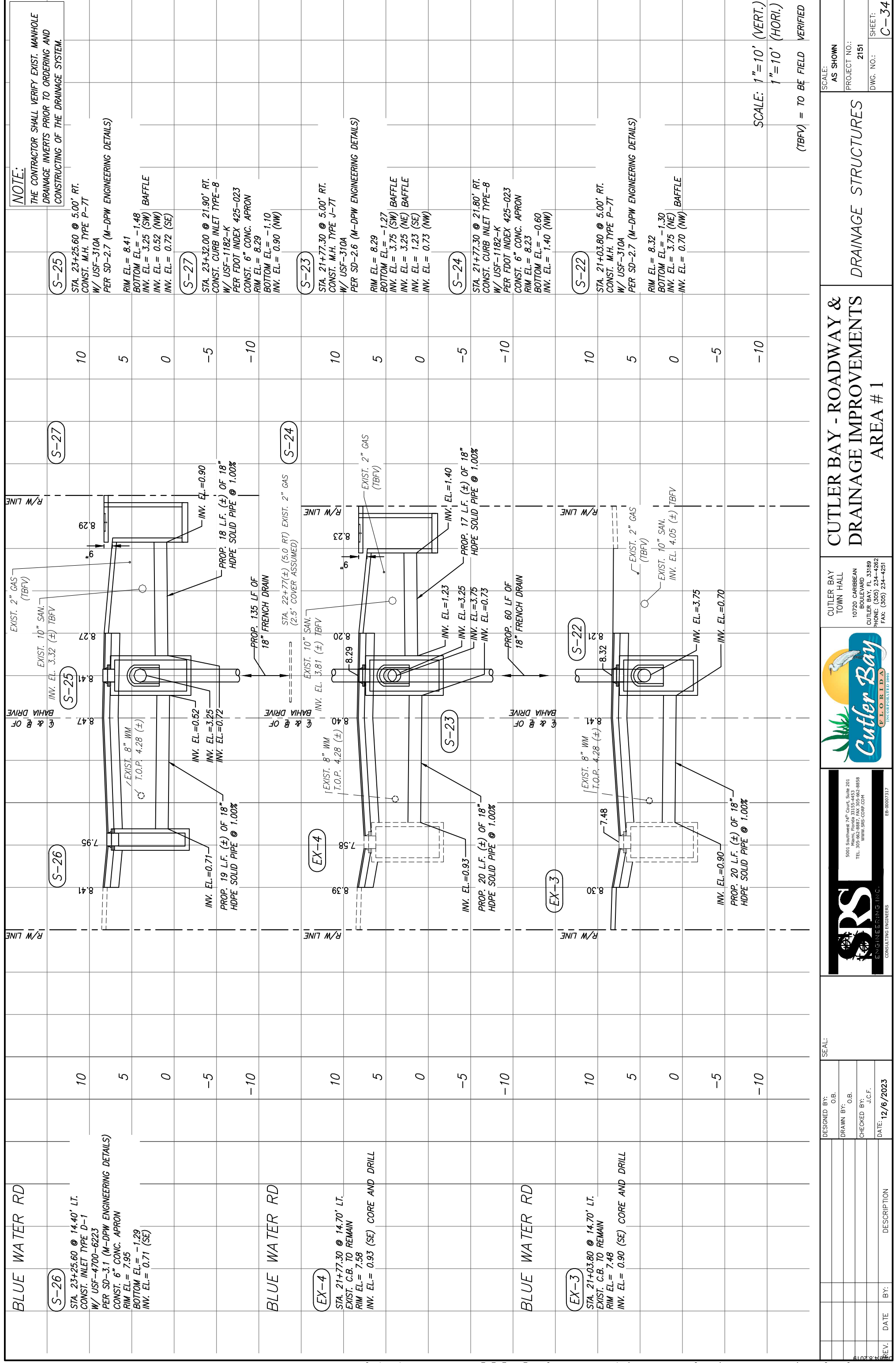


**NOTE:**  
THE CONTRACTOR SHALL VERIFY EXIST. MANHOLE DRAINAGE INVERTS PRIOR TO ORDERING AND CONSTRUCTING OF THE DRAINAGE SYSTEM.

**S-19**  
STA. 16+22.40 @ 21.60' RT.  
CONST. CURB INLET TYPE-8  
W/ USF-1182-K  
PER FDOT INDEX 425-023  
CONST. 6" CONC. APRON  
RIM EL.= 8.28  
BOTTOM EL.= -0.25  
INV. EL.= 1.75 (N)

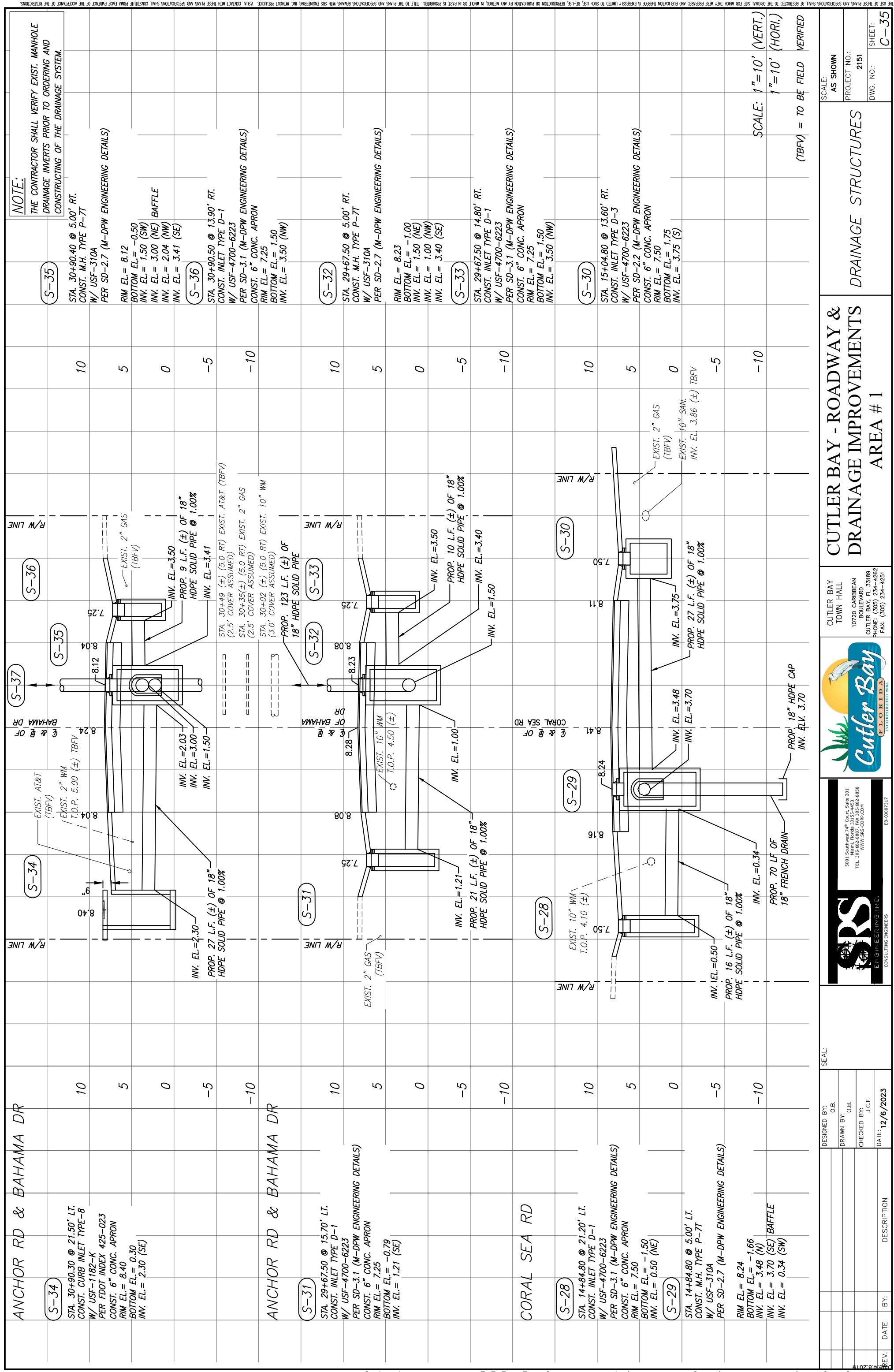
SCALE: 1"=10' (VERT.)  
1"=10' (HORI.)  
(TBV) = TO BE FIELD VERIFIED

DESIGNED BY: C.B.		DRAWN BY: C.B.		CHECKED BY: J.C.F.		DATE: 12/6/2023	
DESIGNED BY: C.B.		DRAWN BY: C.B.		CHECKED BY: J.C.F.		DATE: 12/6/2023	
REV.	DATE	BY:	DESCRIPTION				
				CUTLER BAY TOWN HALL 10720 CARIBBEAN BOULEVARD CUTLER BAY, FL 33189 PHONE: (305) 234-4262 FAX: (305) 234-4251			
				CUTLER BAY - ROADWAY & DRAINAGE IMPROVEMENTS AREA # 1			
				DRAINAGE STRUCTURES			
SCALE: AS SHOWN		PROJECT NO.: 2151		DWG. NO.:		SHEET: C-33	



REV.	DATE	BY:	DESCRIPTION





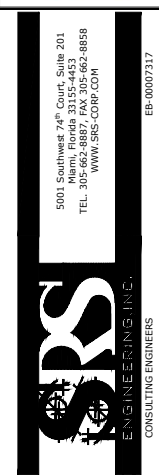
NOTE:  
THE CONTRACTOR SHALL VERIFY EXIST. MANHOLE DRAINAGE INVERTS PRIOR TO ORDERING AND CONSTRUCTING OF THE DRAINAGE SYSTEM.

SCALE: 1"=10' (VERT.)  
1"=10' (HORI.)  
(TBFV) = TO BE FIELD VERIFIED

DESIGNED BY:	C.B.
DRAWN BY:	C.B.
CHECKED BY:	J.C.F.
DATE:	12/6/2023

### CUTLER BAY - ROADWAY & DRAINAGE IMPROVEMENTS AREA # 1

CUTLER BAY TOWN HALL  
10720 CARIBBEAN BOULEVARD  
CUTLER BAY, FL 33189  
PHONE: (305) 234-4262  
FAX: (305) 234-4251



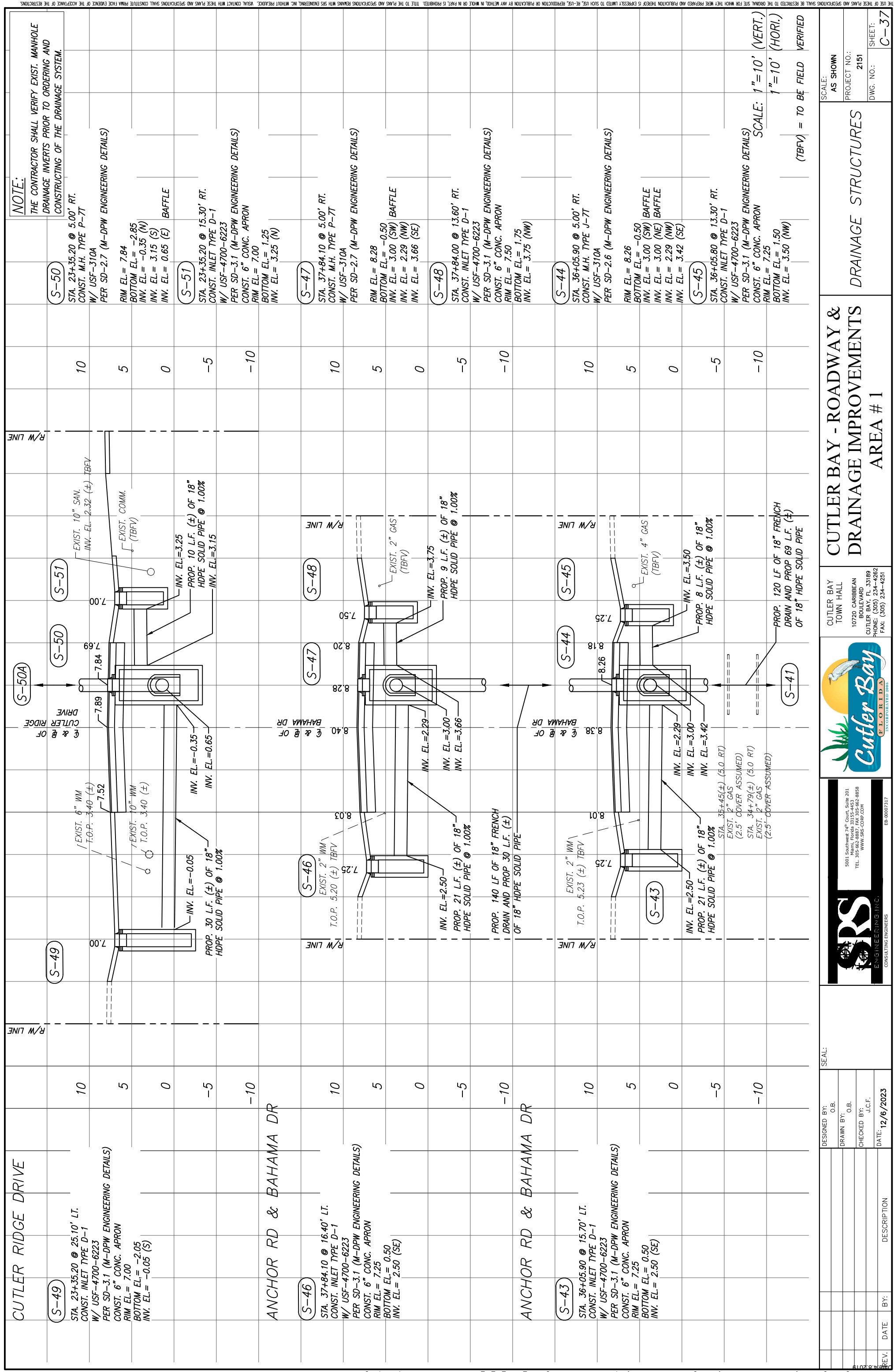
DESIGNED BY:	C.B.
DRAWN BY:	C.B.
CHECKED BY:	J.C.F.
DATE:	12/6/2023

REV.	DATE	BY:	DESCRIPTION

SCALE: AS SHOWN  
PROJECT NO.: 2151  
DWG. NO.:  
SHEET: C-35

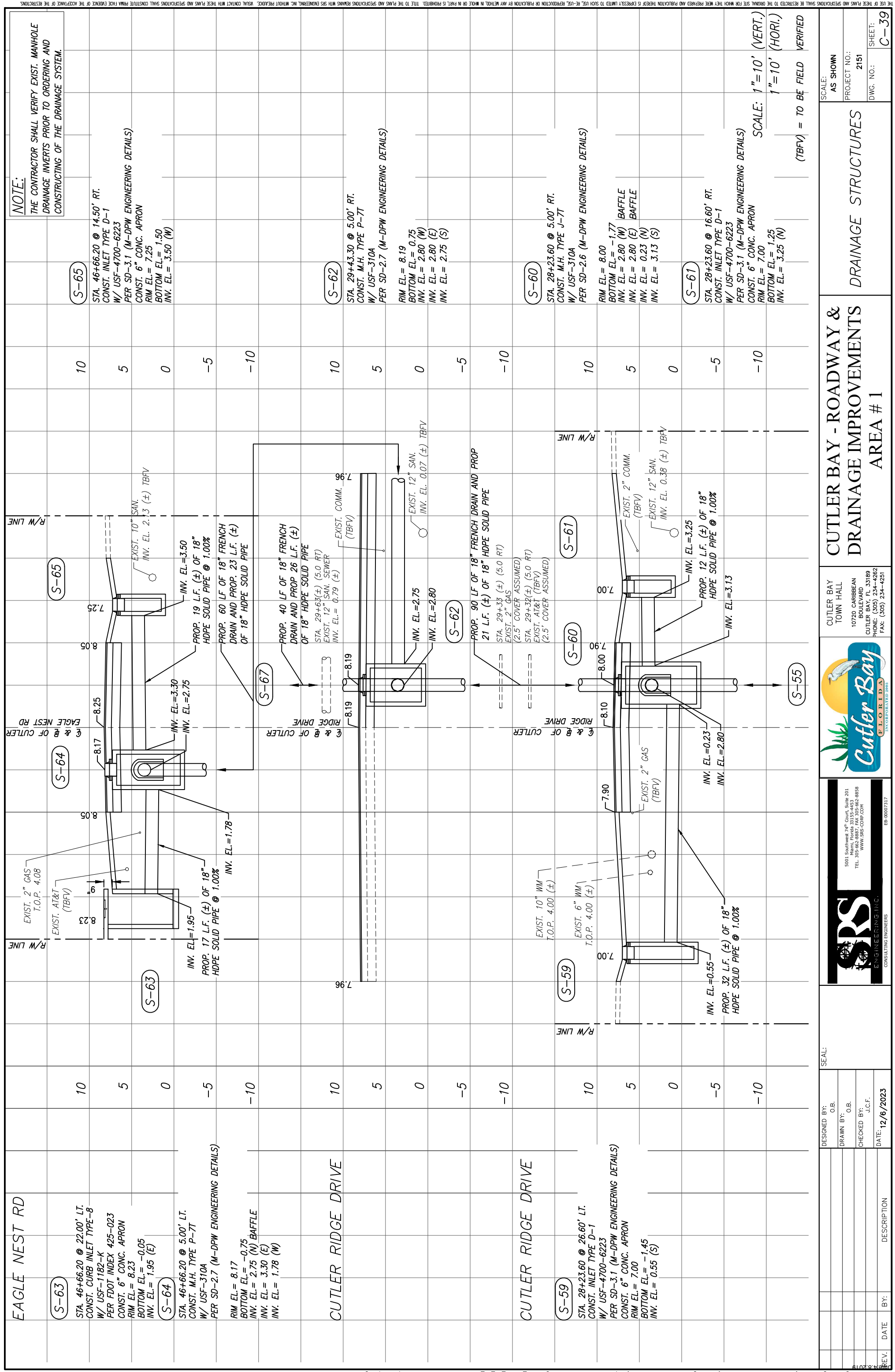






DESIGNED BY:	C.B.	SEAL:	
DRAWN BY:	C.B.	CUTLER BAY	TOWN HALL
CHECKED BY:	J.C.F.	10720 CARIBBEAN	BOULEVARD
DATE:	12/6/2023	CUTLER BAY, FL 33189	PHONE: (305) 234-4262
DESCRIPTION		CUTLER BAY - ROADWAY & DRAINAGE IMPROVEMENTS AREA # 1	
		SCALE: AS SHOWN	PROJECT NO.: 2151
			DWG. NO.: SHEET: C-37





**NOTE:**  
THE CONTRACTOR SHALL VERIFY EXIST. MANHOLE DRAINAGE INVERTS PRIOR TO ORDERING AND CONSTRUCTING OF THE DRAINAGE SYSTEM.

<b>S-65</b>	STA. 46+66.20 @ 14.50' RT. CONST. INLET TYPE D-1 W/ USF-4700-6223 PER SD-3.1 (M-DPW ENGINEERING DETAILS) CONST. 6" CONC. APRON RIM EL.= 7.25 BOTTOM EL.= 1.50 INV. EL.= 3.50 (W)	10							
<b>S-62</b>	STA. 29+43.30 @ 5.00' RT. CONST. M.H. TYPE P-7T W/ USF-310A PER SD-2.7 (M-DPW ENGINEERING DETAILS) RIM EL.= 8.19 BOTTOM EL.= 0.75 INV. EL.= 2.80 (W) INV. EL.= 2.80 (E) INV. EL.= 2.75 (S)	10	5	0	-5	-10			
<b>S-60</b>	STA. 28+23.60 @ 5.00' RT. CONST. M.H. TYPE J-7T W/ USF-310A PER SD-2.6 (M-DPW ENGINEERING DETAILS) RIM EL.= 8.00 BOTTOM EL.= -1.77 INV. EL.= 2.80 (W) BAFFLE INV. EL.= 2.80 (E) BAFFLE INV. EL.= 0.23 (N) INV. EL.= 3.13 (S)	10	5	0	-5	-10			
<b>S-61</b>	STA. 28+23.60 @ 16.60' RT. CONST. INLET TYPE D-1 W/ USF-4700-6223 PER SD-3.1 (M-DPW ENGINEERING DETAILS) CONST. 6" CONC. APRON RIM EL.= 7.00 BOTTOM EL.= 1.25 INV. EL.= 3.25 (N)	10	5	0	-5	-10			

DESIGNED BY:	C.B.		
DRAWN BY:	C.B.		
CHECKED BY:	J.C.F.		
DATE:	12/6/2023		
REV.	DATE	BY:	DESCRIPTION

**CUTLER BAY - ROADWAY & DRAINAGE IMPROVEMENTS AREA # 1**

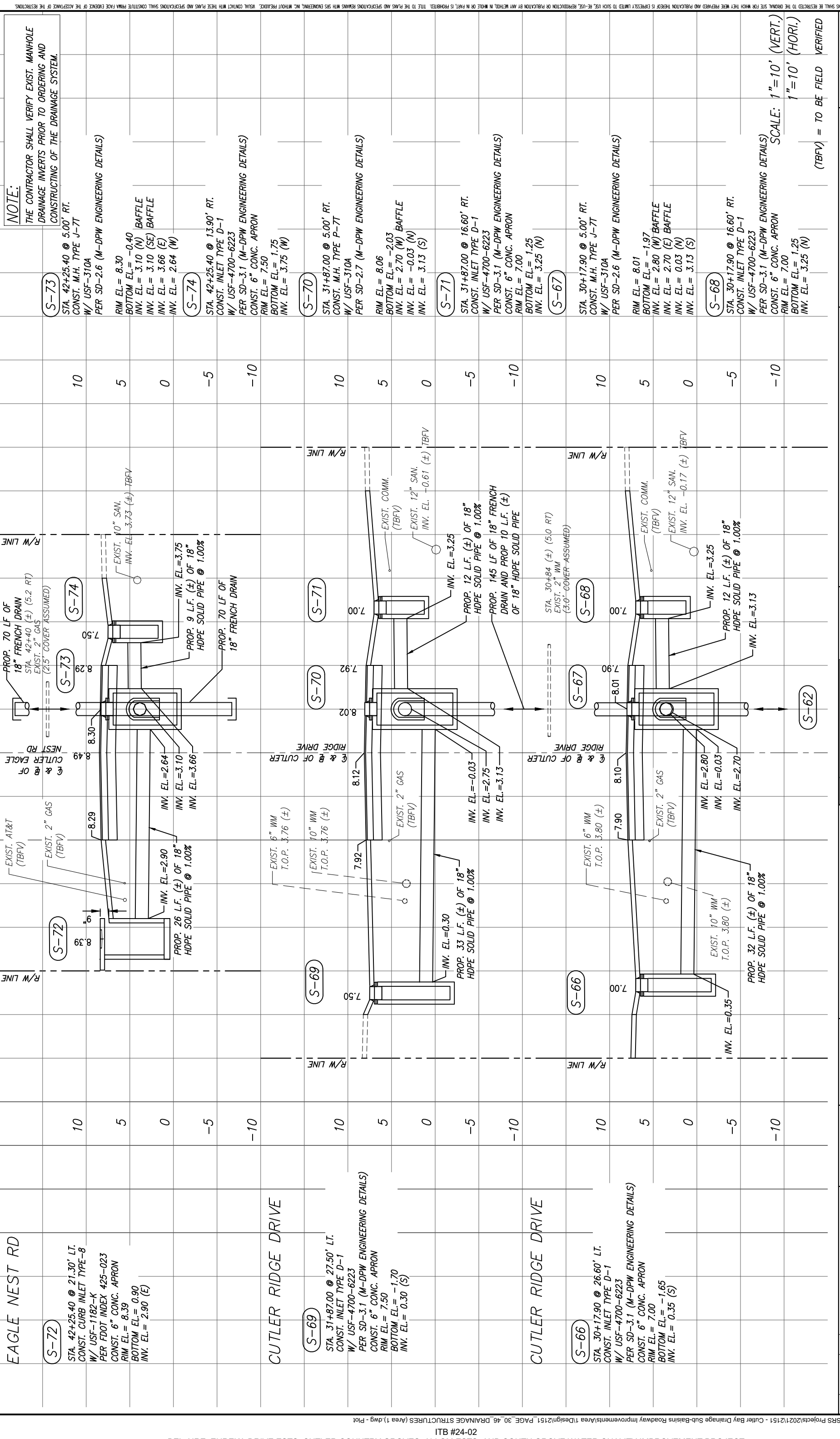


**RSR**  
 ENGINEERING INC.  
 CONSULTING ENGINEERS

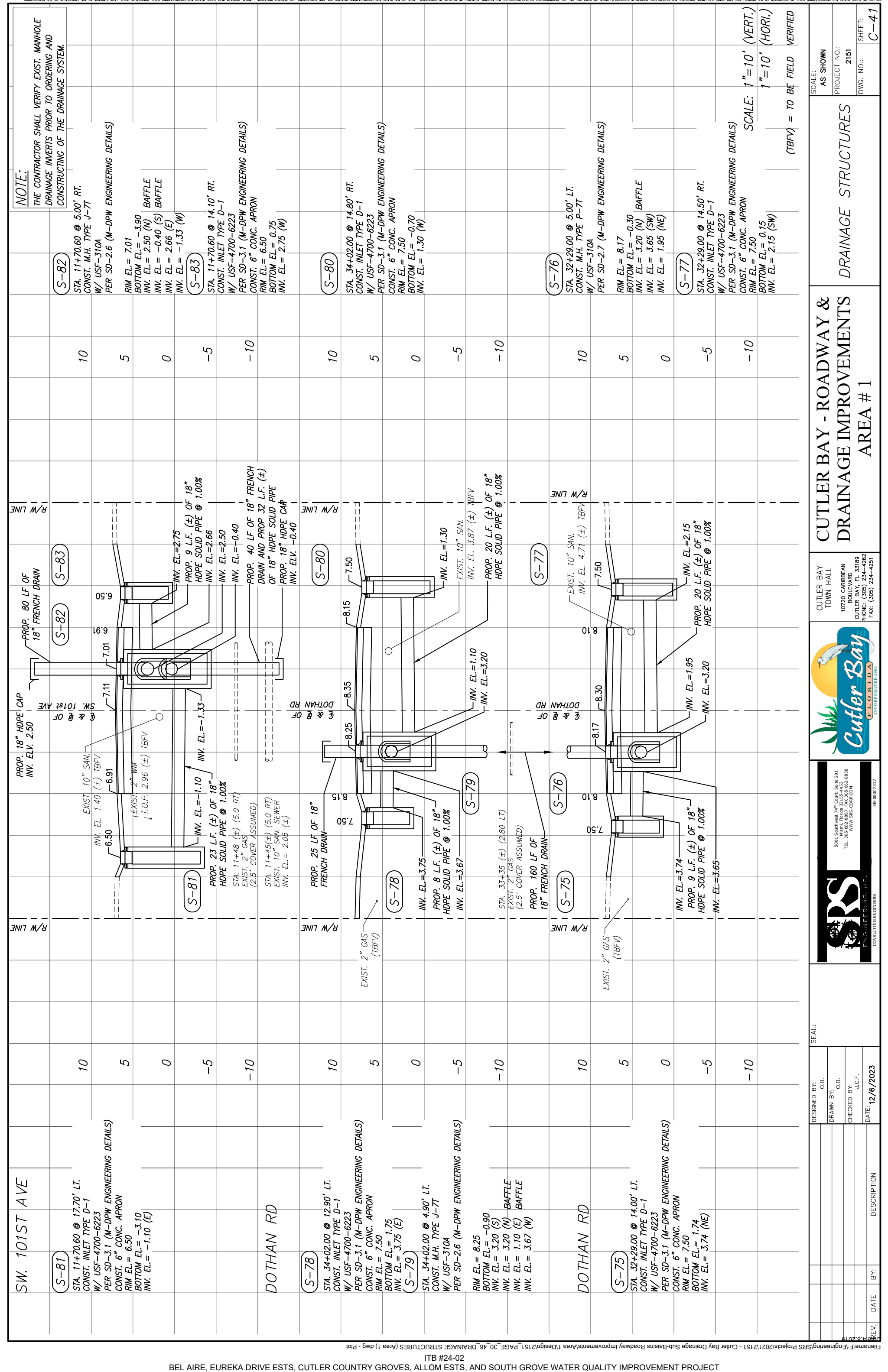
5001 Southwest 74th Court, Suite 201  
 Miami, Florida 33155-4453  
 TEL: 305-662-8887 FAX: 305-662-8858  
 WWW.RSR-CON.COM

SCALE:	AS SHOWN
PROJECT NO.:	2151
DWG. NO.:	SHEET:
	C-39





DESIGNED BY:	C.B.	SEAL:	CUTLER BAY TOWN HALL	 <p>CUTLER BAY TOWN HALL 10720 CARIBBEAN BOULEVARD CUTLER BAY, FL 33189 PHONE: (305) 234-4262 FAX: (305) 234-4251</p>
DRAWN BY:	C.B.	PROJECT NO.:	2151	
CHECKED BY:	J.C.F.	DWG. NO.:		
DATE:	12/6/2023	SHEET:	C-40	
REV.	DATE	BY:	DESCRIPTION	<p><b>RSR</b> ENGINEERING, INC. CONSULTING ENGINEERS</p> <p>5001 Southwest 74th Court, Suite 201 Miami, Florida 33155-4453 TEL: 305-662-8887 FAX: 305-662-8858 WWW.RSR-CON.COM</p> <p>ES-00007317</p>
			<p><b>CUTLER BAY - ROADWAY &amp; DRAINAGE IMPROVEMENTS AREA # 1</b></p>	<p><b>DRAINAGE STRUCTURES</b></p>



**NOTE:**  
THE CONTRACTOR SHALL VERIFY EXIST. MANHOLE DRAINAGE INVERTS PRIOR TO ORDERING AND CONSTRUCTING OF THE DRAINAGE SYSTEM.

STATION	DESCRIPTION	INVERT ELEVATION	PIPE SIZE	LENGTH	REMARKS
10	PROP. 18" HDPE CAP INV. EL. 2.50	2.50	18"		
10	PROP. 80 LF OF 18" FRENCH DRAIN		18"	80 LF	
5	PROP. 23 LF OF 18" HDPE SOLID PIPE @ 1.00%	INV. EL. = -1.10	18"	23 LF	
0	PROP. 9 LF OF 18" HDPE SOLID PIPE @ 1.00%	INV. EL. = 2.75	18"	9 LF	
-5	PROP. 40 LF OF 18" FRENCH DRAIN AND PROP 32 LF OF 18" HDPE SOLID PIPE		18"	72 LF	
-10	PROP. 18" HDPE CAP	INV. EL. = -0.40	18"		
10	PROP. 25 LF OF 18" FRENCH DRAIN		18"	25 LF	
5	PROP. 8 LF OF 18" HDPE SOLID PIPE @ 1.00%	INV. EL. = 3.75	18"	8 LF	
0	PROP. 160 LF OF 18" FRENCH DRAIN		18"	160 LF	
-5	PROP. 9 LF OF 18" HDPE SOLID PIPE @ 1.00%	INV. EL. = 3.74	18"	9 LF	
-10	PROP. 10" SAN. EXIST. 10" SAN.	INV. EL. = 3.87	10"		
10	PROP. 20 LF OF 18" HDPE SOLID PIPE @ 1.00%	INV. EL. = 2.15	18"	20 LF	
5	PROP. 9 LF OF 18" HDPE SOLID PIPE @ 1.00%	INV. EL. = 1.95	18"	9 LF	
0	PROP. 9 LF OF 18" HDPE SOLID PIPE @ 1.00%	INV. EL. = 3.74	18"	9 LF	
-5	PROP. 9 LF OF 18" HDPE SOLID PIPE @ 1.00%	INV. EL. = 3.65	18"	9 LF	
-10	PROP. 10" SAN. EXIST. 10" SAN.	INV. EL. = 4.71	10"		

STATION	DESCRIPTION	INVERT ELEVATION	PIPE SIZE	LENGTH	REMARKS
10	PROP. 8 LF OF 18" HDPE SOLID PIPE @ 1.00%	INV. EL. = 3.75	18"	8 LF	
5	PROP. 8 LF OF 18" HDPE SOLID PIPE @ 1.00%	INV. EL. = 3.67	18"	8 LF	
0	PROP. 8 LF OF 18" HDPE SOLID PIPE @ 1.00%	INV. EL. = 1.10	18"	8 LF	
-5	PROP. 8 LF OF 18" HDPE SOLID PIPE @ 1.00%	INV. EL. = 3.20	18"	8 LF	
-10	PROP. 8 LF OF 18" HDPE SOLID PIPE @ 1.00%	INV. EL. = 1.30	18"	8 LF	
10	PROP. 160 LF OF 18" FRENCH DRAIN		18"	160 LF	
5	PROP. 9 LF OF 18" HDPE SOLID PIPE @ 1.00%	INV. EL. = 3.74	18"	9 LF	
0	PROP. 9 LF OF 18" HDPE SOLID PIPE @ 1.00%	INV. EL. = 1.95	18"	9 LF	
-5	PROP. 9 LF OF 18" HDPE SOLID PIPE @ 1.00%	INV. EL. = 3.20	18"	9 LF	
-10	PROP. 9 LF OF 18" HDPE SOLID PIPE @ 1.00%	INV. EL. = 2.15	18"	9 LF	

DESIGNED BY:	C.B.	SCALE:	AS SHOWN
DRAWN BY:	C.B.	PROJECT NO.:	2151
CHECKED BY:	J.C.F.	DWG. NO.:	
DATE:	12/6/2023	SHEET:	C-41
REV.	DATE	BY:	DESCRIPTION

**CUTLER BAY - ROADWAY & DRAINAGE IMPROVEMENTS AREA # 1**

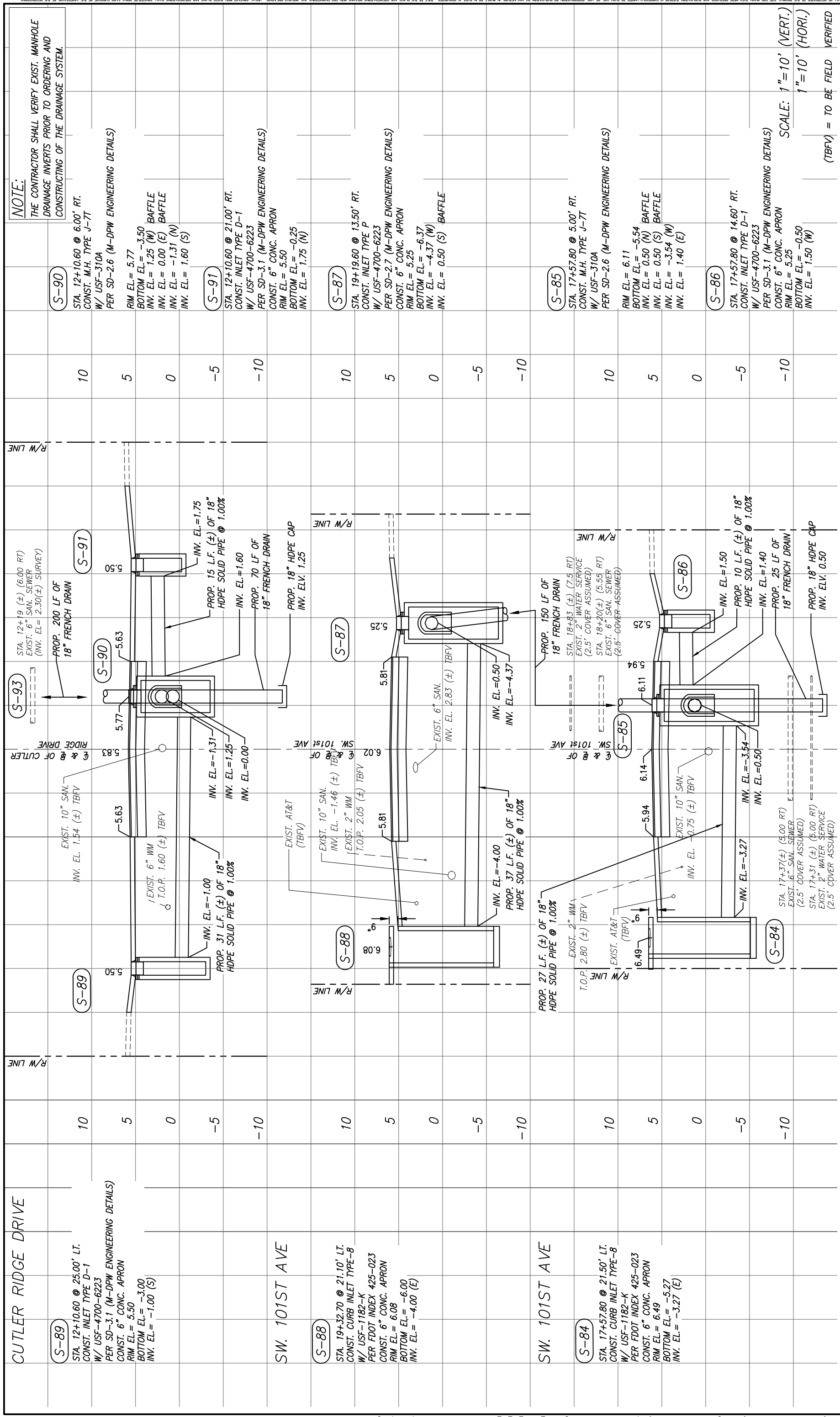
**CUTLER BAY TOWN HALL**  
 10720 CARIBBEAN BOULEVARD  
 CUTLER BAY, FL 33189  
 PHONE: (305) 234-4262  
 FAX: (305) 234-4251

**Cutler Bay**  
 FLORIDA  
 INCORPORATED 1988

**SRS**  
 ENGINEERING, INC.  
 CONSULTING ENGINEERS

5001 Southwest 74<sup>th</sup> Court, Suite 201  
 Miami, Florida 33155-4453  
 TEL: 305-662-8887 FAX: 305-662-8858  
 WWW.SRS-CON.COM

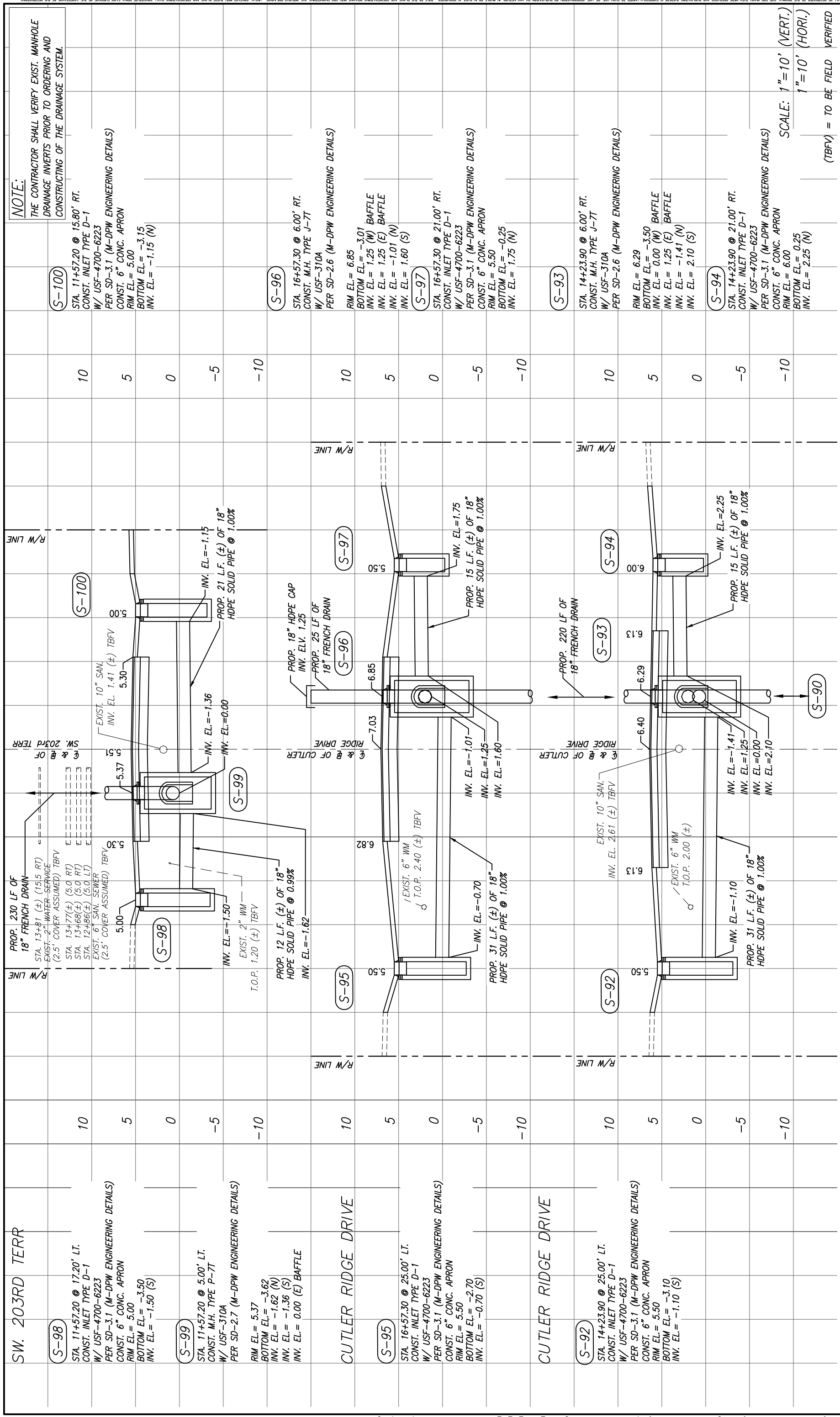
ES-00007317



NO.	REV.	DATE	BY:	DESCRIPTION
		12/6/2023	J.C.F.	
			C.B.	
			C.B.	
			J.C.F.	

DESIGNED BY: C.B.		DRAWN BY: C.B.		CHECKED BY: J.C.F.		DATE: 12/6/2023	
SEAL:		CUTLER BAY TOWN HALL		CUTLER BAY - ROADWAY & DRAINAGE IMPROVEMENTS AREA # 1		SCALE: AS SHOWN	
5001 Southwest 7th Court, Suite 201 Miami, Florida 33155-4453 TEL: 305-662-8887 FAX: 305-662-8858 WWW.CBS-CONV.COM		10720 CARIBBEAN BOULEVARD CUTLER BAY, FL 33189 PHONE: (305) 234-4262 FAX: (305) 234-4251		PROJECT NO.: 2151		SHEET: C-42	
				DRAINAGE STRUCTURES		SCALE: 1"=10' (VERT.) 1"=10' (HORI.) (TBFV) = TO BE FIELD VERIFIED	



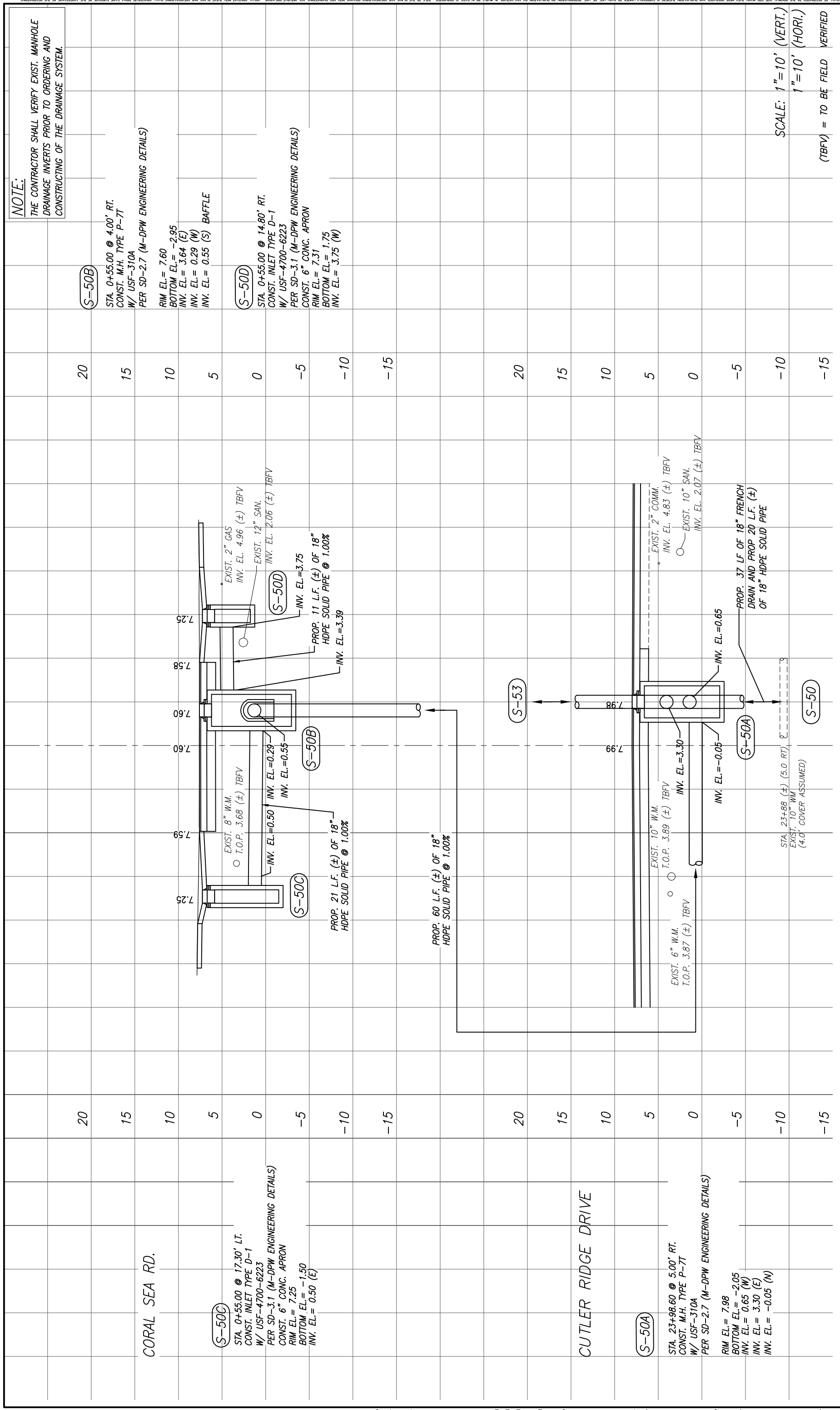


NO.	REV.	DATE	BY:	DESCRIPTION

	<b>CUTLER BAY - ROADWAY &amp; DRAINAGE IMPROVEMENTS AREA # 1</b>	<b>DRAINAGE STRUCTURES</b>	SCALE: AS SHOWN PROJECT NO.: 2151 DWG. NO.: SHEET: C-43
5001 Southwest 7th Court, Suite 201 Miami, Florida 33155-4453 TEL: 305-662-8887, FAX: 305-662-8858 WWW.SRS-CONV.COM	CUTLER BAY TOWN HALL 10720 CARIBBEAN BOULEVARD CUTLER BAY, FL 33189 PHONE: (305) 234-4262 FAX: (305) 234-4251	CUTLER BAY - ROADWAY & DRAINAGE IMPROVEMENTS AREA # 1 DRAINAGE STRUCTURES SCALE: 1" = 10' (VERT.) 1" = 10' (HORI.) (TBFV) = TO BE FIELD VERIFIED	

FILENAME: F:\Engineering\RSR Projects\2021\2151 - PAGE\_30\_46\_DRAINAGE STRUCTURES (Area 1).dwg - Plot  
 ITB #24-02  
 BEL AIRE, EUREKA DRIVE ESTS, CUTLER COUNTRY GROVES, ALLOM ESTS, AND SOUTH GROVE WATER QUALITY IMPROVEMENT PROJECT  
 Page 263 of 383





**NOTE:**  
 THE CONTRACTOR SHALL VERIFY EXIST. MANHOLE DRAINAGE INVERTS PRIOR TO ORDERING AND CONSTRUCTING OF THE DRAINAGE SYSTEM.

DESIGNED BY:	C.B.	SEAL:	
DRAWN BY:	C.B.		
CHECKED BY:	J.C.F.		
DATE:	12/6/2023		
REV.	DATE	BY:	DESCRIPTION

5001 Southeast 74th Court, Suite 201  
 Miami, Florida 33155-4453  
 TEL: 305-662-8887, FAX: 305-662-8858  
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CUTLER BAY TOWN HALL  
 10720 CARIBBEAN BOULEVARD  
 CUTLER BAY, FL 33189  
 PHONE: (305) 234-4262  
 FAX: (305) 234-4251

**CUTLER BAY - ROADWAY & DRAINAGE IMPROVEMENTS AREA # 1**

**DRAINAGE STRUCTURES**

SCALE: AS SHOWN  
 PROJECT NO.: 2151  
 DWG. NO.:  
 SHEET: C-45

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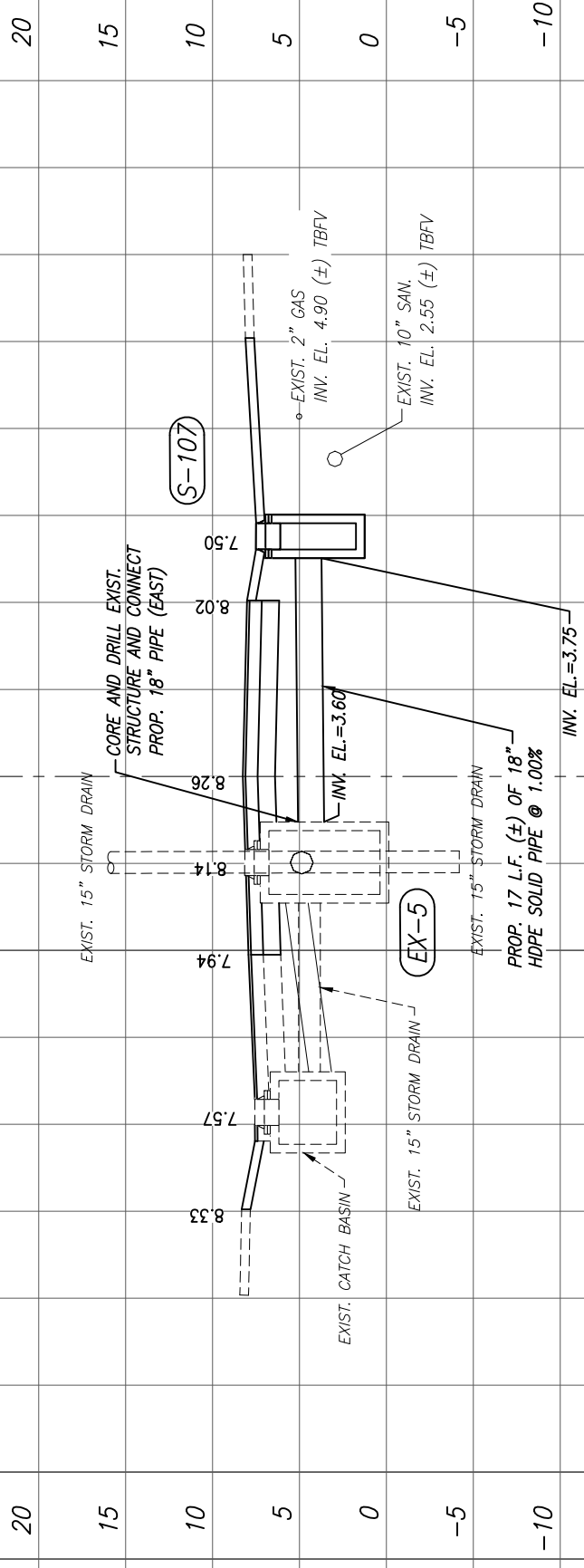
**NOTE:**

THE CONTRACTOR SHALL VERIFY EXIST. MANHOLE  
DRAINAGE INVERTS PRIOR TO ORDERING AND  
CONSTRUCTING OF THE DRAINAGE SYSTEM.

CORAL SEA RD

**EX-5**

STA. 16+91.40 @ 5.00' LT.  
EXIST. M.H. TO REMAIN  
RIM EL. = 8.14  
BOTTOM EL. = 0.34  
INV. EL. = 3.60 (E) CORE AND DRILL



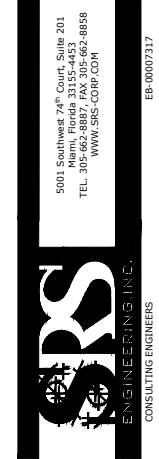
**S-107**  
STA. 16+92.30 @ 13.80' RT.  
CONST. INLET TYPE D-1  
W/ USF-4700-6223  
PER SD-3.1 (M-DPW ENGINEERING DETAILS)  
CONST. 6" CONC. APRON  
RIM EL. = 7.50  
BOTTOM EL. = 1.75  
INV. EL. = 3.75 (W)

SCALE: 1" = 10' (VERT.)  
1" = 10' (HORI.)  
(TBFV) = TO BE FIELD VERIFIED

REV.	DATE	BY:	DESCRIPTION

DESIGNED BY: C.B.  
DRAWN BY: C.B.  
CHECKED BY: J.C.F.  
DATE: 12/6/2023

SEAL:



CUTLER BAY  
TOWN HALL  
10720 CARIBBEAN  
BOULEVARD  
CUTLER BAY, FL 33189  
PHONE: (305) 234-4262  
FAX: (305) 234-4251

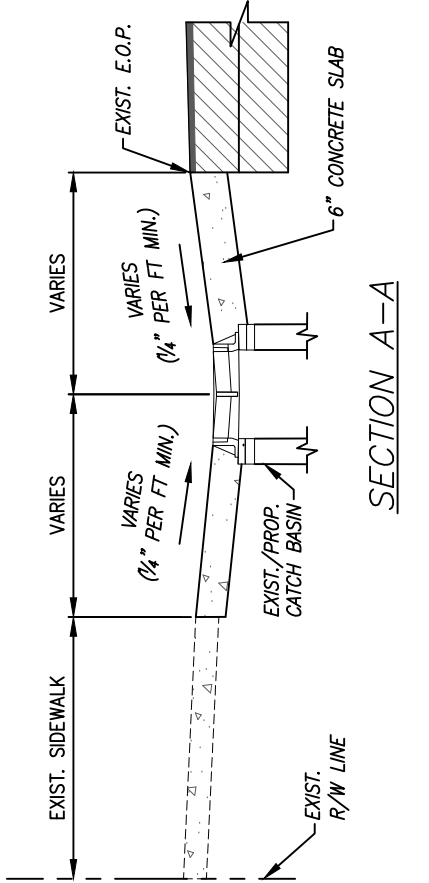
**CUTLER BAY - ROADWAY &  
DRAINAGE IMPROVEMENTS  
AREA # 1**

**DRAINAGE STRUCTURES**

SCALE: AS SHOWN  
PROJECT NO.: 2151  
DWG. NO.:  
SHEET: C-46

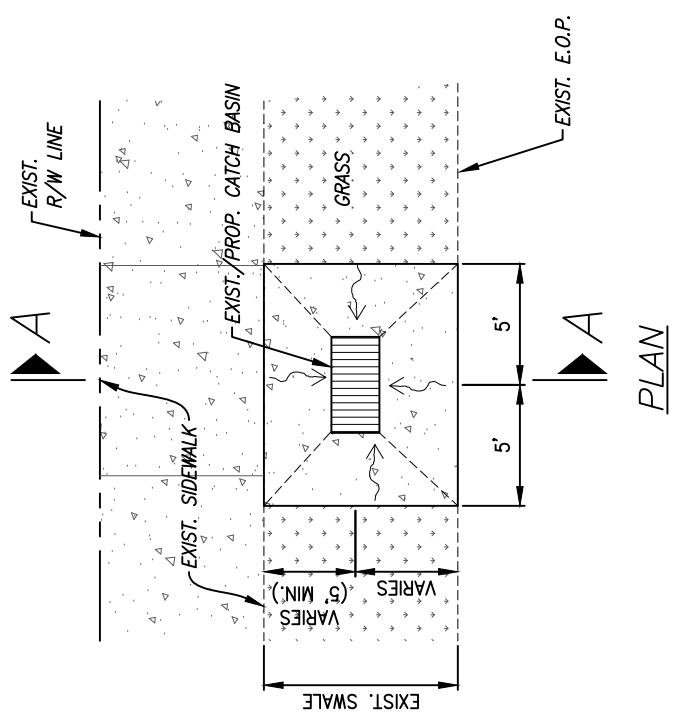
Filename: F:\Engineering\SR6 Projects\2021\2151 - Cutler Bay Drainage Sub-Basins Roadway Improvements\Area 1\Design\2151\_PAGE\_30\_46\_DRAINAGE STRUCTURES (Area 1).dwg - Plot





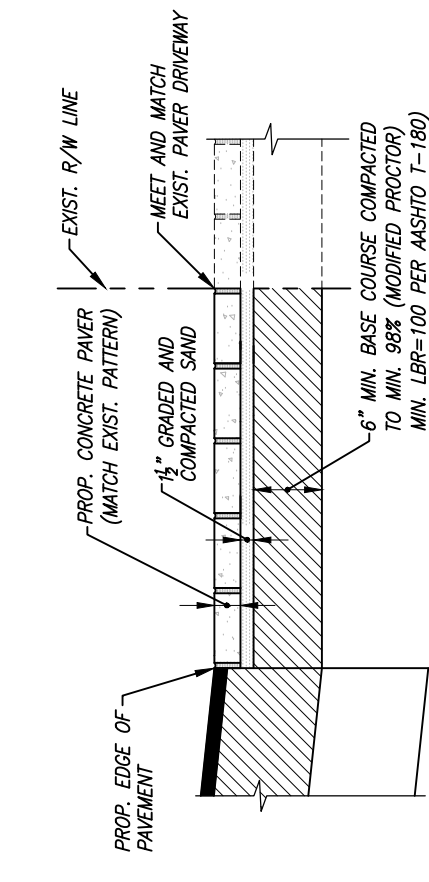
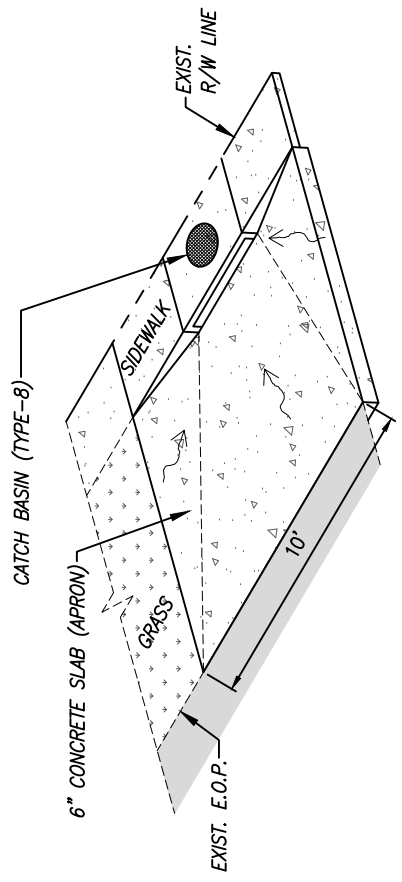
SECTION A-A

6" CONCRETE APRON DETAIL  
N.I.S.

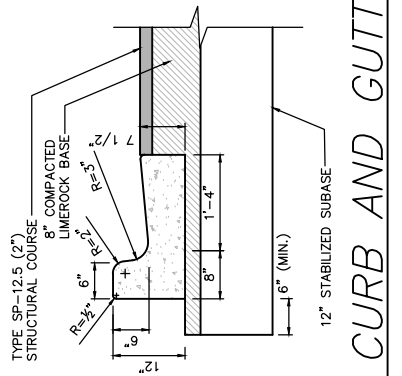


PLAN

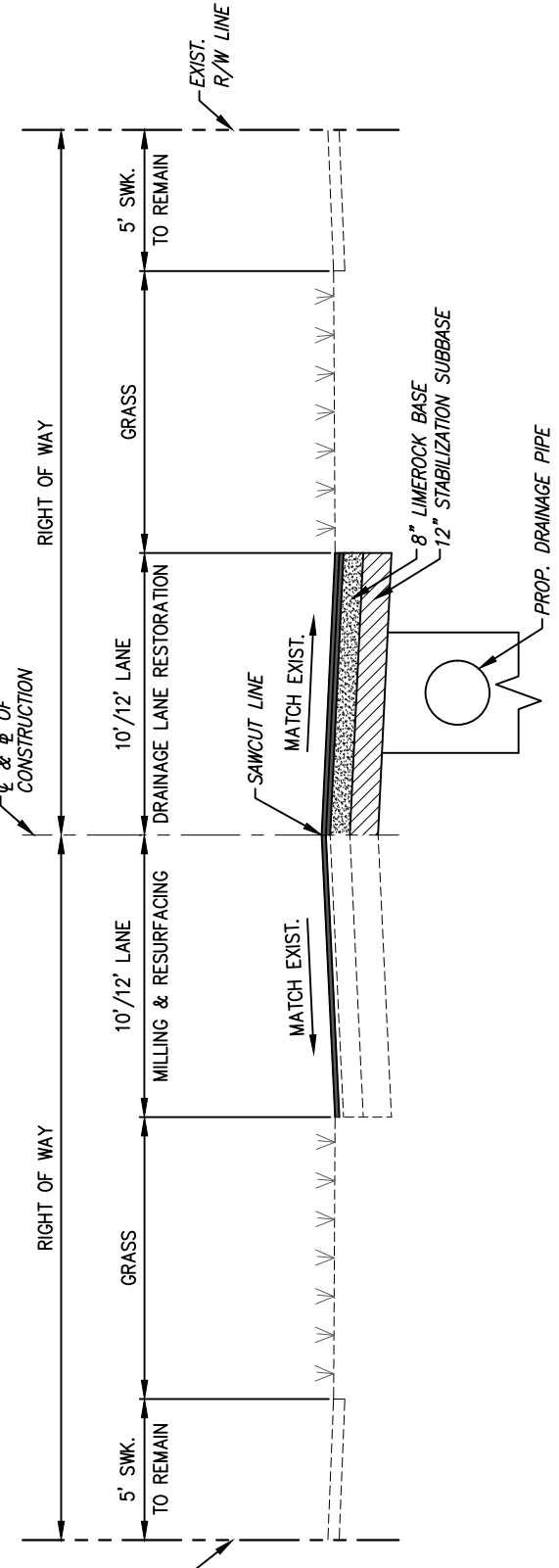
INLET DETAIL STRUCTURE (APRON)  
N.I.S.



PAVER DRIVEWAY RESTORATION DETAIL  
N.I.S.



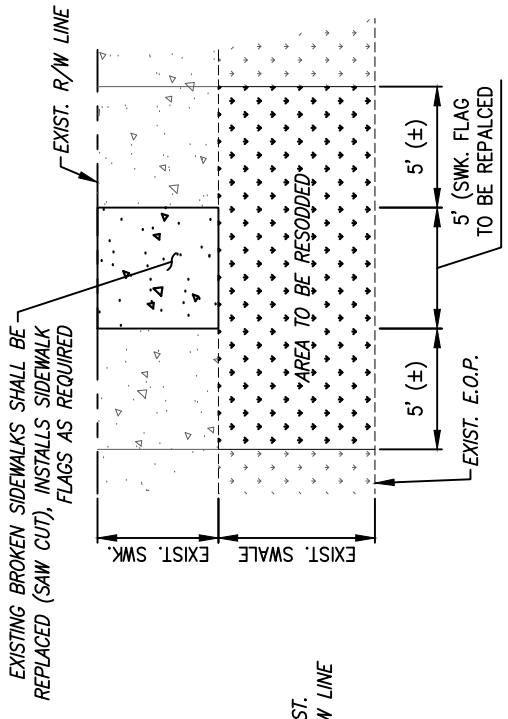
6" CURB AND GUTTER  
TYPE "F"  
N.I.S.



TYPICAL SECTION  
N.I.S.

MILLING AND RESURFACING  
MILLING EXISTING ASPHALT PAVEMENT (1/2" AVERAGE) RESURFACING WITH 1 LIFTS 1" OF SP-9.5 ASPHALTIC CONCRETE SURFACE COURSE (INSTALL W/ THE SECOND LIFT OF THE PAVEMENT RESTORATION)

TRENCH RESTORATION (DRAINAGE)  
12" STABILIZED SUBBASE, COMPACTED TO MIN. 98%, MIN. LBR=40, PER AASHTO T-180  
8" LIMEROCK BASE COURSE COMPACTED TO MIN. 98% (MODIFIED PROCTOR) MIN. LBR=100 PER AASHTO T-180  
2 LIFTS OF (1") SP-9.5 ASPHALTIC CONCRETE SURFACE COURSE

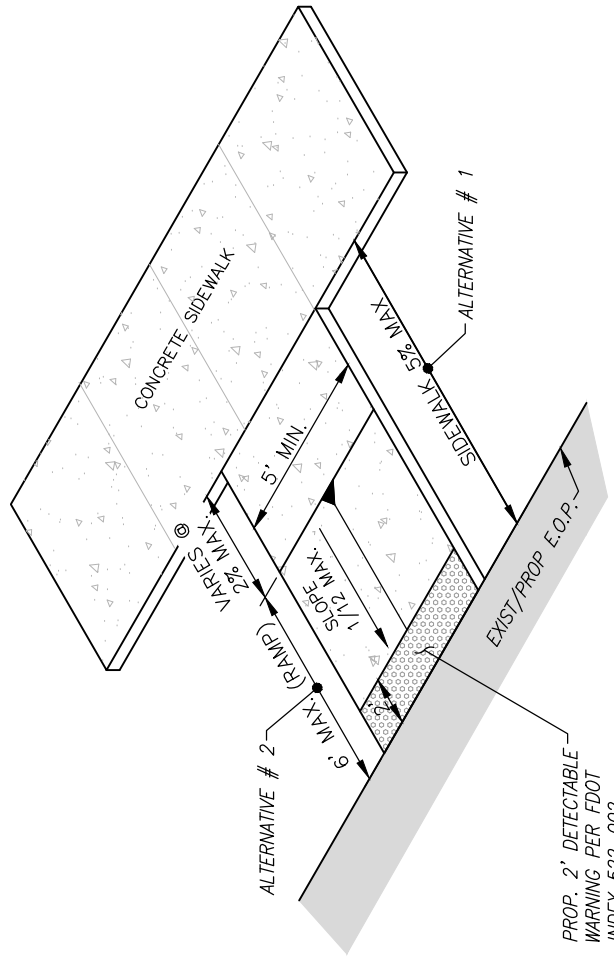


SIDEWALK FLAG  
REPLACEMENT DETAIL  
N.I.S.

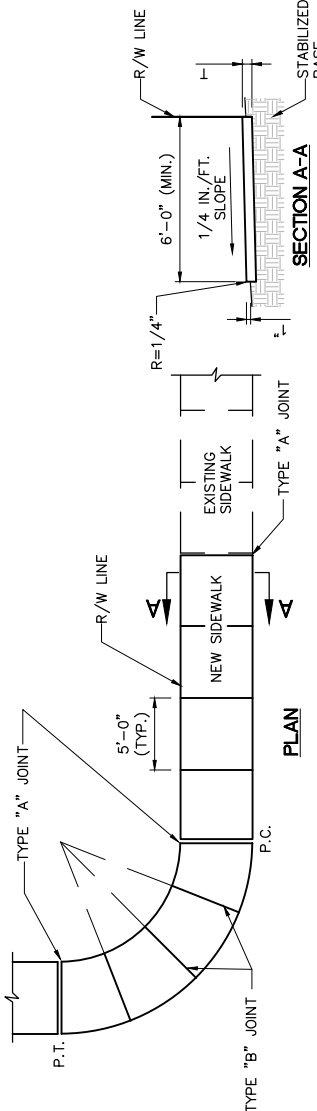
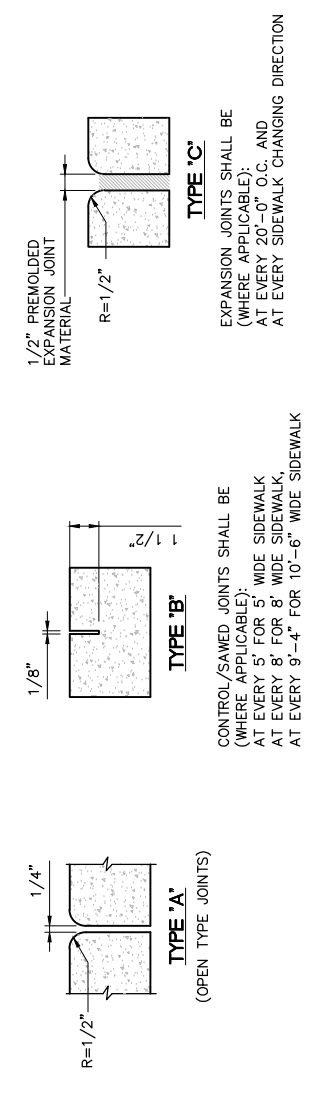
EXISTING BROKEN SIDEWALKS SHALL BE REPLACED (SAWCUT), INSTALLS SIDEWALK FLAGS AS REQUIRED

DESIGNED BY: O.B.	DRAWN BY: O.B.	CHECKED BY: J.C.F.	DATE: 12/6/2023	SEAL:	DESIGNER'S ENGINEERING CONSULTING ENGINEERS 5001 Southwest 74th Court, Suite 201 Miami, Florida 33155-4453 TEL: 305-662-8887 FAX: 305-662-8858 WWW.DJG-CORP.COM		CUTLER BAY TOWN HALL 10720 CARIBBEAN BOULEVARD CUTLER BAY, FL 33189 PHONE: (305) 234-4262 FAX: (305) 234-4251	CUTLER BAY - ROADWAY & DRAINAGE IMPROVEMENTS AREA # 1	MISCELLANEOUS DETAILS	SCALE: AS SHOWN
										PROJECT NO.: 2151





**ACCESSIBILITY FLUSH RAMP/SIDEWALK**  
N.T.S.



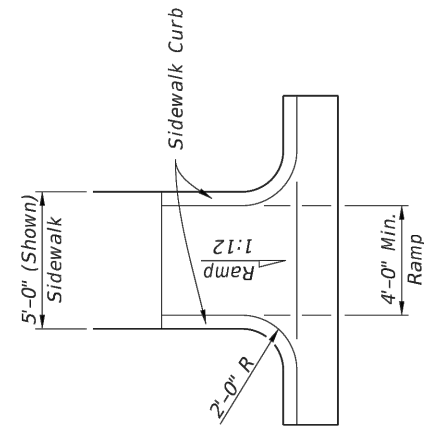
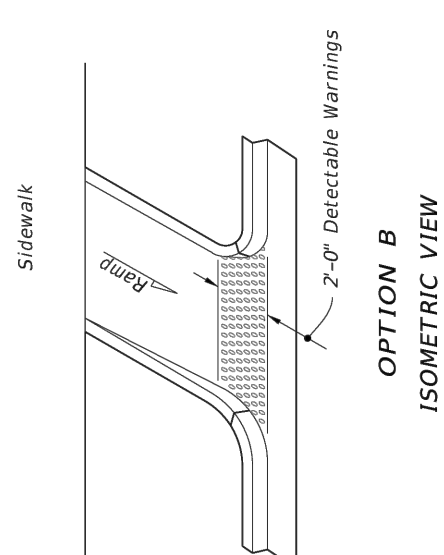
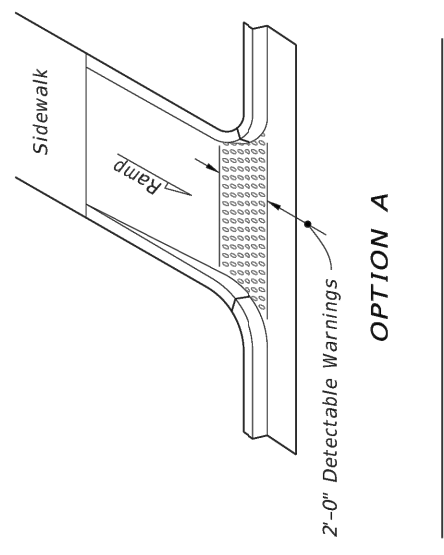
**TABLE OF SIDEWALK JOINTS**

TYPE	LOCATION
'A'	P.C. AND P.T. OF CURVES, JUNCTION OF EXISTING AND NEW SIDEWALKS.
'B'	5'-0" CENTER TO CENTER ON SIDEWALKS
'C'	* WHERE SIDEWALK ABUTS CONCRETE CURBS, DRIVEWAYS AND SIMILAR STRUCTURES.

**TABLE OF SIDEWALK THICKNESS 'T'**

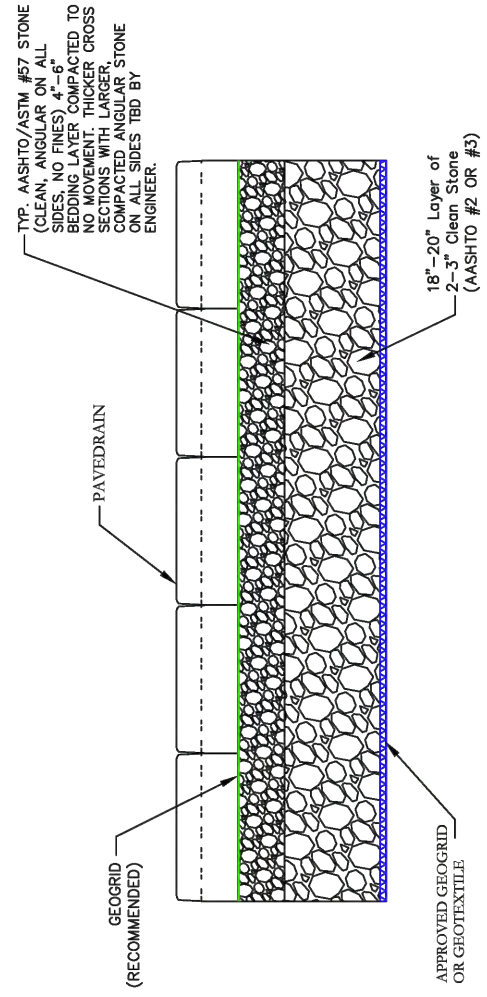
LOCATION	T
RESIDENTIAL AREAS	6"
AT DRIVEWAYS AND OTHER AREAS	6"

**CONCRETE SIDEWALK**  
N.T.S.

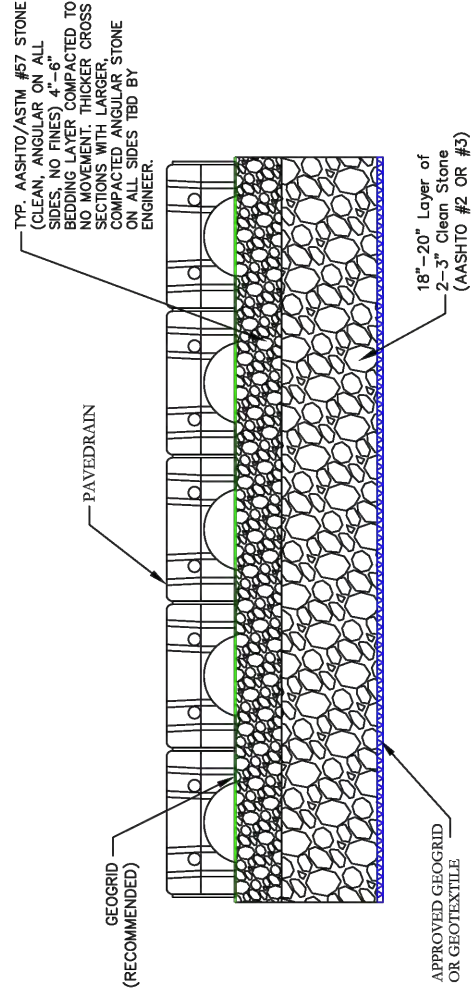


CRE

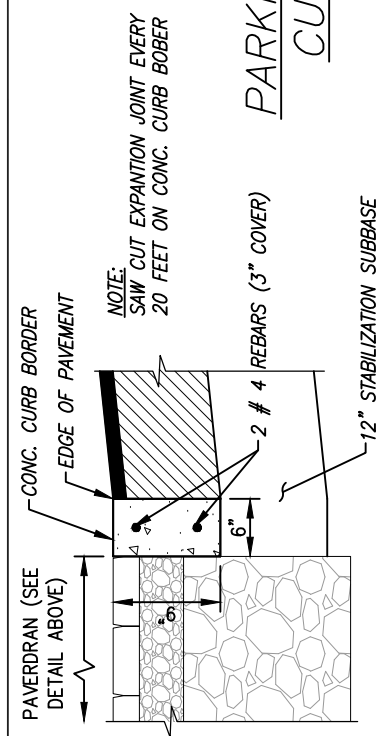
**CURB RAMPS DETAIL**  
N.T.S.



CROSS-SECTION SIDE VIEW

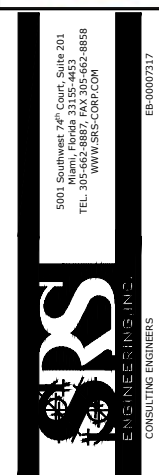


CROSS-SECTION END VIEW



**CUTLER BAY - ROADWAY & DRAINAGE IMPROVEMENTS AREA # 1**  
N.T.S.

CUTLER BAY TOWN HALL  
10720 CARIBBEAN BOULEVARD  
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PHONE: (305) 234-4262  
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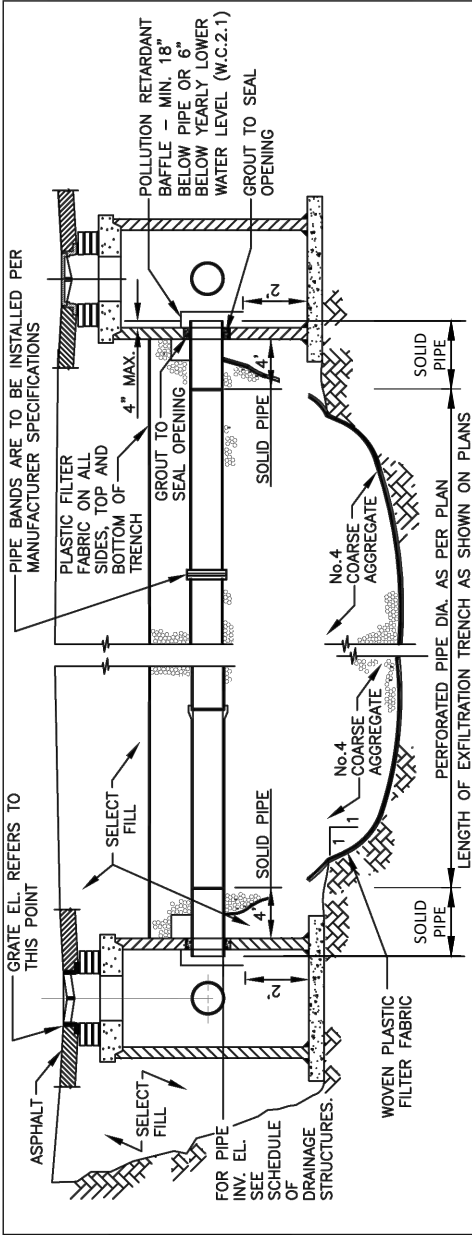


DESIGNED BY: O.B.  
DRAWN BY: O.B.  
CHECKED BY: J.C.F.  
DATE: 2/26/2024

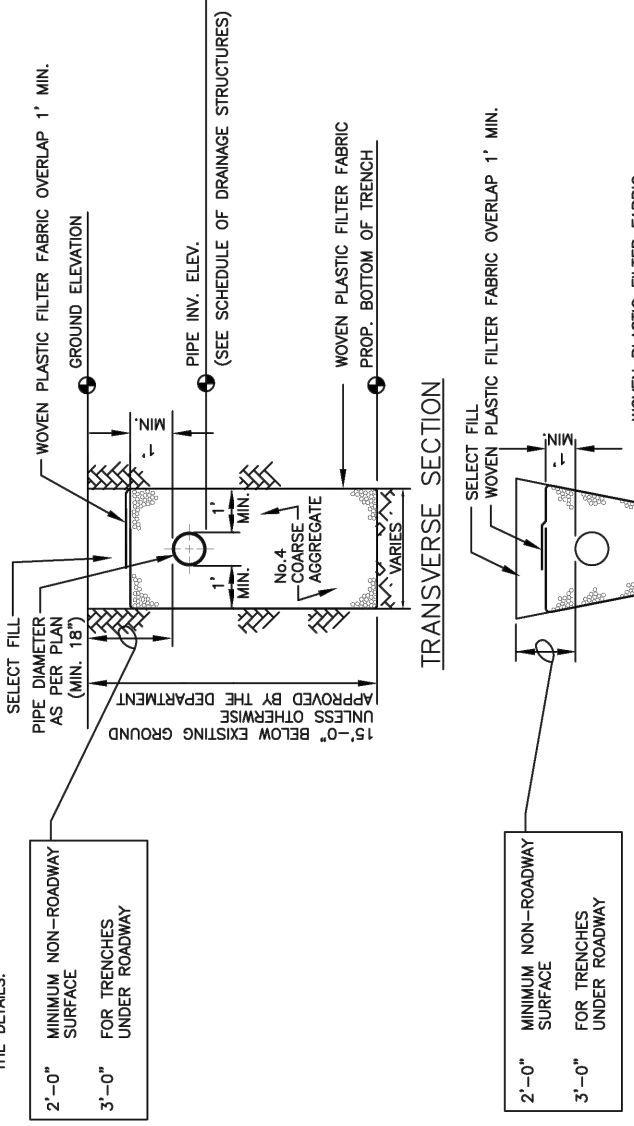
REV.	DATE	BY:	DESCRIPTION

SCALE: AS SHOWN  
PROJECT NO.: 2151  
DWG. NO.:  
SHEET: C-48

MISCELLANEOUS DETAILS



**NOTE**  
 1-AFTER THE COARSE AGGREGATE HAS BEEN PLACED TO THE PROPER ELEVATION IT SHALL BE CAREFULLY WASHED DOWN WITH CLEAN WATER, OR TAMPERED, TO ALLOW FOR INITIAL SETTLEMENT THAT MAY OCCUR. IF SETTLEMENT DOES TAKE PLACE, ADDITIONAL No.4 COARSE AGGREGATE SHALL BE ADDED TO RESTORE THE PROPER ELEVATION SO THAT THE EXFILTRATION TRENCH IS COMPLETED IN ACCORDANCE WITH THE DETAILS.



\* MAY BE USED IN AREAS WHERE TRENCH WALLS WILL NOT STAND VERTICAL, OR WHERE CAVE-IN BELOW THE WATER TABLE IS LIKELY TO OCCUR. TO BE USED AT THE ENGINEER'S DISCRETION.  
**NOTES (CONTINUED ON NEXT PAGE)**  
 1. PLASTIC FILTER FABRIC SHALL BE WOVEN MONOFILAMENT POLYPROPYLENE GEOTEXTILE. PERMITTIVITY SHALL BE GREATER THAN 0.50 SEC AND FLOW RATE GREATER OR EQUAL TO 50 gal/min.  
 2. MAXIMUM EXFILTRATION RATE WHICH CAN BE USED IN CALCULATING FRENCH DRAIN LENGTH IS 0.1 cfs/ft.

MIAMI-DADE COUNTY DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS	APPROVED 04/16/2015	REVISED 02/08/2011 09/26/2012 10/19/2012	STANDARD STORM DRAINAGE DETAIL EXFILTRATION TRENCH (FRENCH DRAIN)	SD 1.1 SHEET 1 OF 2
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**NOTES CONTINUED**

- THE MINIMUM PIPE DIAMETER FOR DRAINAGE SYSTEM WITHIN THE ROADWAY RIGHT-OF-WAY SHALL BE 18 INCHES. 15 INCH PIPE MAY BE USED IN PRIVATE ROADWAYS.
- NO TREES TO BE PLANTED WITHIN 5 FEET OF THE EDGE OF THE TRENCH.
- TYPE "P" S.D. 2.6 STRUCTURE IS RECOMMENDED FOR SMALL DRAINAGE AREAS LESS THAN 0.2 ACRE PER CATCH BASIN.
- TYPE "J" S.D. 2.6 STRUCTURE IS RECOMMENDED FOR AREAS LARGER THAN 0.2 ACRE.
- ALL INVERTS OF PERFORATED PIPES TO BE AT MEAN HIGH OCTOBER WATER TABLE W.C. 2.2.
- PIPES CAN BE ALLOWED BELOW MEAN HIGH OCTOBER WATER TABLE DUE TO UTILITY CONFLICTS OR IN ORDER TO PROVIDE THE REQUIRED MINIMUM COVER.
- NEOPRENE GASKET REQUIRED FOR BAFFLES ON ALL CONTACT EDGES MOUNTED ON WALL.
- OIL AND GREASE BAFFLE IS REQUIRED FOR ALL DRAINAGE STRUCTURES PRECEDING AN OUTFALL OR EXFILTRATION TRENCHES. IN PROJECTS LOCATED IN WELLFIELD PROTECTION AREAS, ROAD INTERSECTIONS WITH TRAFFIC LIGHTS, AND LARGE PARKING LOTS WHICH INCLUDE 15 PARKING SPACES OR MORE.
- OIL AND GREASE BAFFLE MAY BE WAIVED IN SUBURBAN RESIDENTIAL AREAS.

**GENERAL NOTES FOR PIPE CULVERTS**

CONTRACTOR HAS THE OPTION OF INSTALLING ANY PIPE MEETING THE REQUIREMENTS OF SECTION 443-2 OF THE FDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION AS LONG AS THE MANUFACTURER IS LISTED, AT THE TIME OF PIPE INSTALLATION, IN FDOT'S LIST OF PRODUCERS WITH ACCEPTED QUALITY CONTROL PROGRAMS. PIPES WITH LESS THAN A 100-YEAR CERTIFICATION CANNOT BE USED ON SECTION LINE, HALF SECTION LINE, COLLECTOR ROADWAYS, AND ARTERIALS. 50-YEAR PIPE CERTIFICATION REQUIRED FOR ALL OTHER MINOR/LOCAL ROADWAYS.

**MINIMUM NUMBER OF PERFORATION IN PIPE CULVERTS**

PIPE DIAMETER (Inches)	OUTER SHELL		LINER
	No. of 3/8" Dia. Holes (PER LIN. FT. OF PIPE)	No. of 5/8" Dia. Holes (PER LIN. FT. OF PIPE)	
15	100	50	
18	120	60	
24	160	80	
30	200	100	
36	240	120	
42	275	140	
48	315	150	
54	355	180	
60	395	200	
72	470	235	
84	550	275	

**NOTE:**

PERFORATIONS SHALL BE UNIFORMLY SPACED AROUND THE FULL PERIPHERY OF THE PIPE TO WITHIN 4" OF EACH END OF EACH LENGTH OF PIPE. THE NUMBER OF PERFORATIONS PER LINEAR FOOT OF PIPE AND THE DIAMETER OF THE PERFORATIONS SHALL BE AS SHOWN ON THE ABOVE TABLE.

MIAMI-DADE COUNTY DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS	APPROVED 04/16/2015	REVISED 06-04-86 10-22-13 05-02-81	STANDARD STORM DRAINAGE DETAIL EXFILTRATION TRENCH (PIPE CULVERT NOTES)	SD 1.1 SHEET 2 OF 2
--	------------------------	---	---	---------------------------

DESIGNED BY: O.B.  
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 WWW.SRS-CONR.COM

EB-00007317

INCORPORATED 1987

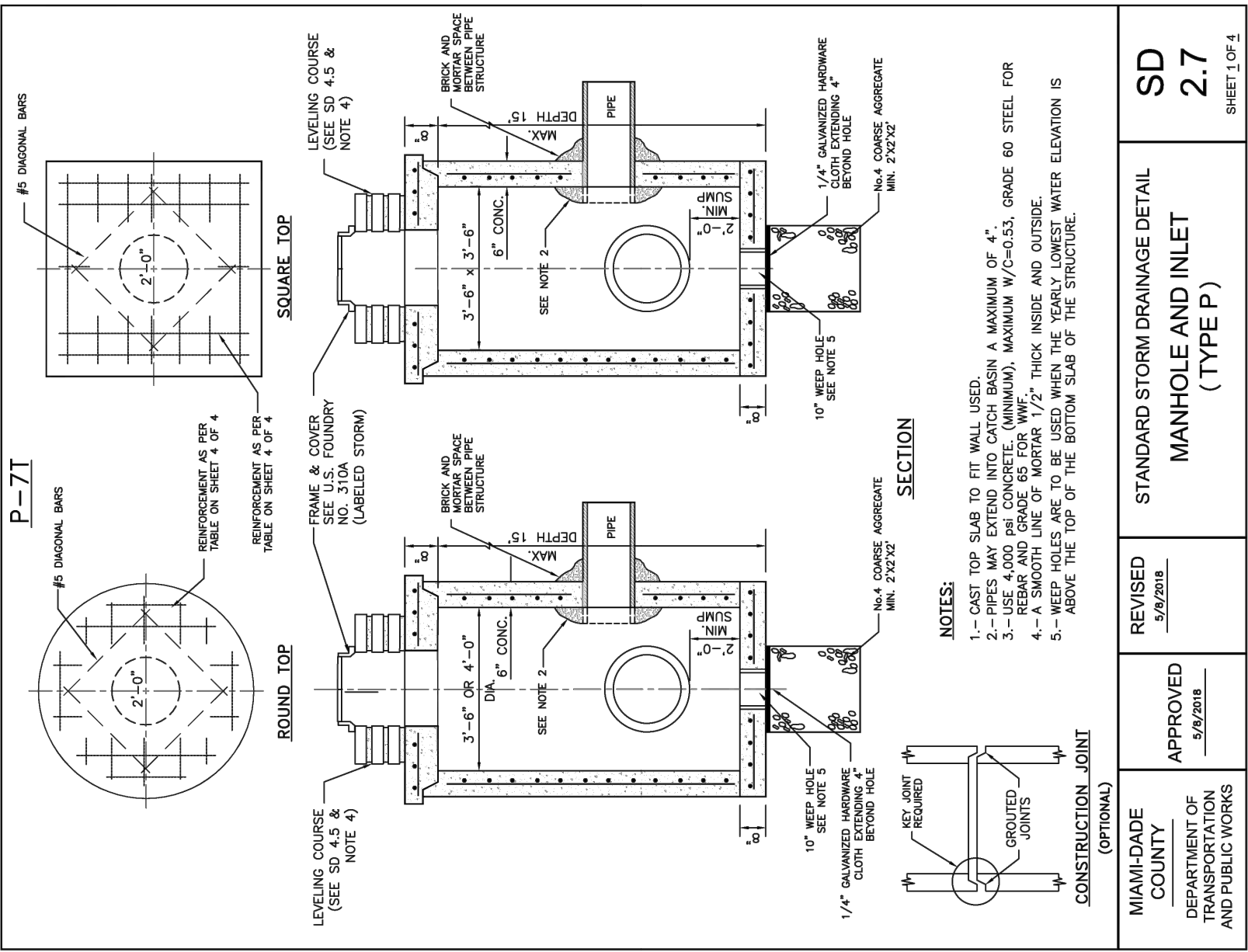
CUTLER BAY  
 TOWN HALL  
 10720 CARIBBEAN  
 BOULEVARD  
 CUTLER BAY, FL 33189  
 PHONE: (305) 234-4262  
 FAX: (305) 234-4251

CUTLER BAY - ROADWAY &  
 DRAINAGE IMPROVEMENTS  
 AREA # 1

MISCELLANEOUS DETAILS

SCALE: AS SHOWN  
 PROJECT NO.: 2151  
 DWG. NO.:  
 SHEET: C-49





MIAMI-DADE COUNTY DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS	APPROVED 5/8/2018	REVISED 5/8/2018	STANDARD STORM DRAINAGE DETAIL MANHOLE AND INLET (TYPE P)	SD 2.7	SHEET 1 OF 4
--	----------------------	---------------------	---	-----------	--------------

DESIGNED BY: C.B.  
 DRAWN BY: C.B.  
 CHECKED BY: J.C.F.  
 DATE: 12/6/2023

SEAL:

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 Miami, Florida 33152-4453  
 TEL: 305-662-8887, FAX: 305-662-8858  
 WWW.SRS-CORP.COM

EB-00007317

**POLLUTION CONTROL STRUCTURE**

Standard Detail	Width (ft)	Length (ft)	Height (ft)	Wall Thickness (in)	Top Slab Thickness (in)	Wall Steel	Top Slab Steel	Bottom Slab Thickness (in)	Bottom Slab Steel	Bottom Slab Overhang (in)
5.2-3C - POLLUTION CONTROL STRUCTURE 3 CHAMBER	8.0	14.0	0.0 - 5.0	10.0	10.0	#5@9.5"H #4@10"V	#6@6" E.W.	10.0	#4@8" E.W.	12.0
5.2-2C - POLLUTION CONTROL STRUCTURE 2 CHAMBER	8.0	14.0	5.1 - 10.0	10.0	10.0	#7@9"H #4@10"V	#6@6" E.W.	10.0	#4@8" E.W.	12.0
	8.0	14.0	10.1 - 15.0	10.0	10.0	#8@8"H #4@10"V	#6@6" E.W.	10.0	#4@8" E.W.	12.0
	8.0	9.0	0.0 - 5.0	8.0	10.0	#5@9.5"H #4@10"V	#6@6" E.W.	10.0	#4@8" E.W.	12.0
	8.0	9.0	5.1 - 10.0	8.0	10.0	#7@9"H #4@10"V	#6@6" E.W.	10.0	#4@8" E.W.	12.0
	8.0	9.0	10.1 - 15.0	8.0	10.0	#8@8"H #4@10"V	#6@6" E.W.	10.0	#4@8" E.W.	12.0

MIAMI-DADE COUNTY DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS	APPROVED 5/8/2018	REVISED 5/8/2018	STANDARD STORM DRAINAGE DETAIL POLLUTION CONTROL STRUCTURE	SD 5.2	SHEET 4 OF 4
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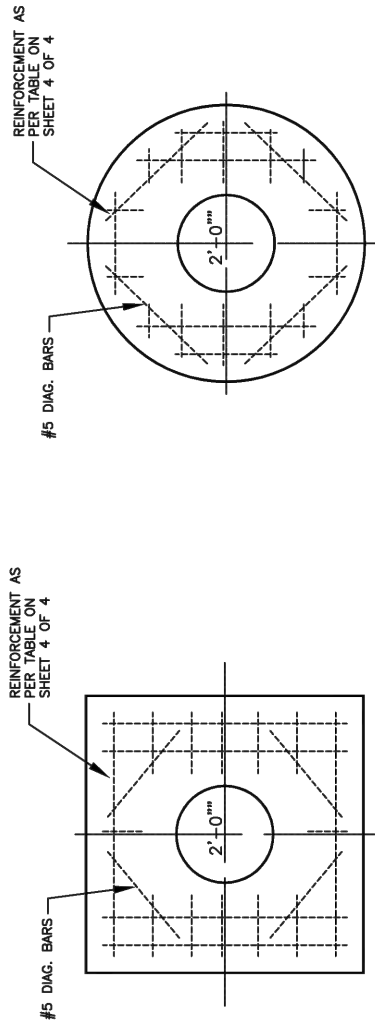
CUTLER BAY - ROADWAY & DRAINAGE IMPROVEMENTS AREA # 1

CUTLER BAY TOWN HALL  
 10720 CARIBBEAN BOULEVARD  
 CUTLER BAY, FL 33189  
 PHONE: (305) 234-4262  
 FAX: (305) 234-4251

MISCELLANEOUS DETAILS

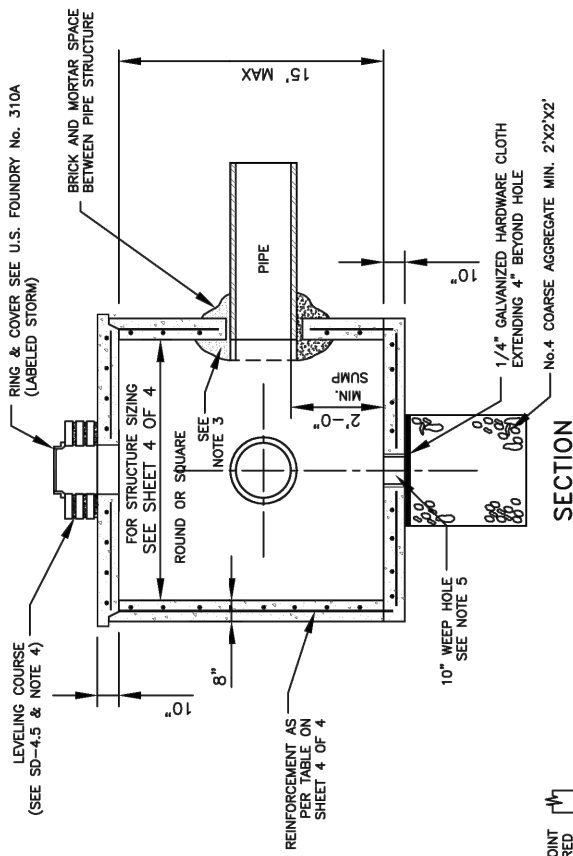
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 PROJECT NO.: 2151  
 DWG. NO.:  
 SHEET: C-50

J-7I



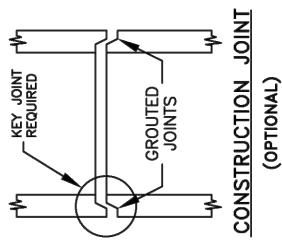
**SQUARE TOP**

**ROUND TOP**



**NOTES:**

- 1.- CAST TOP SLAB TO FIT WALL USED.
- 2.- USE 4,000 psi CONCRETE. (MINIMUM), MAXIMUM W/C=0.53, GRADE 60 STEEL FOR REBAR AND GRADE 65 FOR WWF.
- 3.- PIPES MAY EXTEND INTO CATCH BASIN A MAXIMUM OF 4".
- 4.- APPLY A SMOOTH LINE OF MORTAR 1/2" THICK INSIDE AND OUTSIDE.
- 5.- WEEP HOLES ARE TO BE USED WHEN THE YEARLY LOWEST WATER ELEVATION IS ABOVE THE TOP OF THE BOTTOM SLAB OF THE STRUCTURE.



MIAMI-DADE COUNTY DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS	APPROVED 5/8/2018	REVISED 5/8/2018 9/16/2013 9/26/2012 9/3/2011	STANDARD STORM DRAINAGE DETAIL <b>MANHOLE AND INLET (TYPE J)</b>	<b>SD 2.6</b> SHEET 1 OF 4
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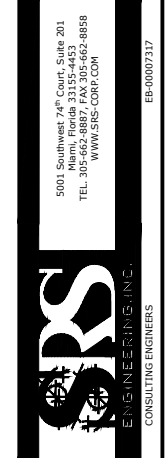
**SQUARE STRUCTURE**

Standard Detail	Width (ft) Min.	Length (ft) Max.	Height (ft)	Wall Thickness (in)	Wall Steel	Top Slab Thickness (in)	Top Slab Steel	Bottom Slab Thickness (in)	Bottom Slab Steel
2.6	8	8	0.0 - 5.0	8	#4@7"H #4@10"V	10	#6@6" E.W.	10	#5@8.5" E.W.
2.6	8	8	5.1 - 10.0	8	#6@7.5"H #4@10"V	10	#6@6" E.W.	10	#5@8.5" E.W.
2.6	8	8	10.1 - 15.0	8	#7@7"H #4@10"V	10	#6@6" E.W.	10	#5@8.5" E.W.

**ROUND STRUCTURE**

Standard Detail	Dia. (ft) Min.	Dia. (ft) Max.	Height (ft)	Wall Thickness (in)	Wall Steel	Top Slab Thickness (in)	Top Slab Steel	Bottom Slab Thickness (in)	Bottom Slab Steel
2.6	5	7	0.0 - 5.0	8	8 x 8 W20 OR #4@10"E.W.	10	#6@6" E.W.	10	#5@8.5" E.W.
2.6	5	7	5.1 - 10.0	8	8 x 8 W20 OR #4@10"E.W.	10	#6@6" E.W.	10	#5@8.5" E.W.
2.6	5	7	10.1 - 15.0	8	8 x 8 W20 OR #4@10"E.W.	10	#6@6" E.W.	10	#5@8.5" E.W.

MIAMI-DADE COUNTY DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS	APPROVED 5/8/2018	REVISED 5/8/2018 11/26/2012 8/3/2011	STANDARD STORM DRAINAGE DETAIL <b>MANHOLE AND INLET (TYPE J)</b>	<b>SD 2.6</b> SHEET 4 OF 4
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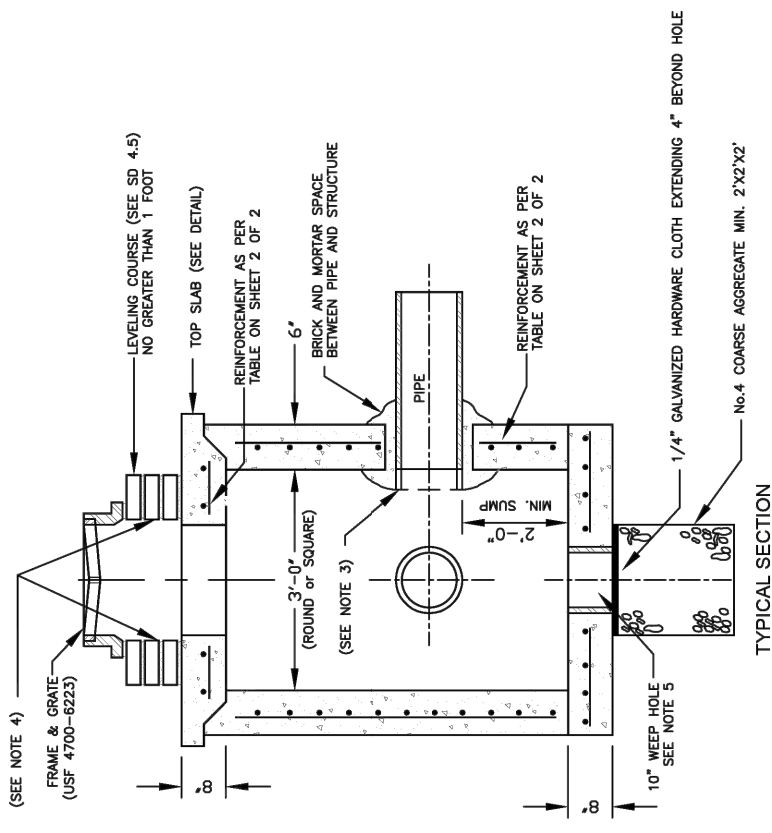
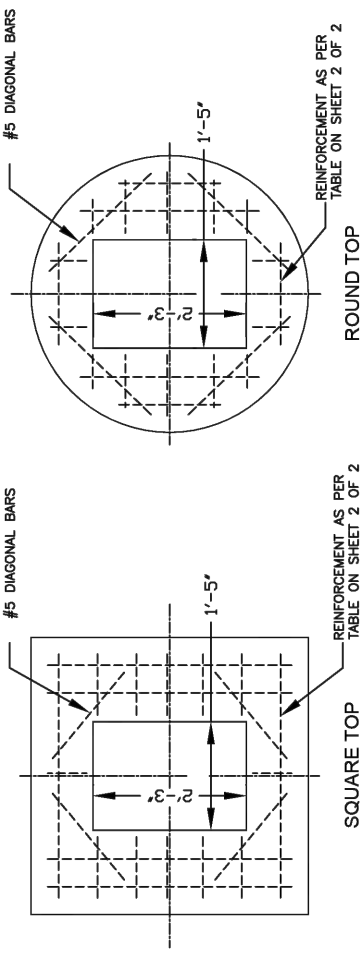


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FAX: (305) 234-4251

**CUTLER BAY - ROADWAY & DRAINAGE IMPROVEMENTS AREA # 1**

**MISCELLANEOUS DETAILS**

SCALE: AS SHOWN  
PROJECT NO.: 2151  
DWG. NO.:  
SHEET: C-51



**NOTES:**  
 1.- CAST TOP SLAB TO FIT WALL USED.  
 2.- USE 4,000 psi CONCRETE. (MINIMUM), MAXIMUM W/C=0.53, GRADE 60 STEEL FOR REBAR AND GRADE 65 FOR WWF.  
 3.- PIPES MAY EXTEND INTO CATCH BASIN A MAXIMUM OF 4".  
 4.- APPLY A SMOOTH LINE OF MORTAR 1/2" THICK INSIDE AND OUTSIDE.  
 5.- WEEP HOLES ARE TO BE USED WHEN THE YEARLY LOWEST WATER ELEVATION IS ABOVE THE TOP OF THE BOTTOM SLAB OF THE STRUCTURE.

MIAMI-DADE COUNTY DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS	APPROVED 5/8/2018	REVISED 5/8/2018 9/16/2013 9/26/2012 2/8/2011 3/7/1981	STANDARD STORM DRAINAGE DETAIL PRECAST CATCH BASIN (D-3)	SD 2.2 SHEET 1 OF 2
--	----------------------	---	---	---------------------------

DESIGNED BY: C.B.	SEAL:
DRAWN BY: C.B.	
CHECKED BY: J.C.F.	
DATE: 12/6/2023	
REV. DATE BY: DESCRIPTION	

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**SRS**  
 ENGINEERING  
 CONSULTING ENGINEERS

EP-00007317



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CUTLER BAY - ROADWAY & DRAINAGE IMPROVEMENTS AREA # 1

MISCELLANEOUS DETAILS

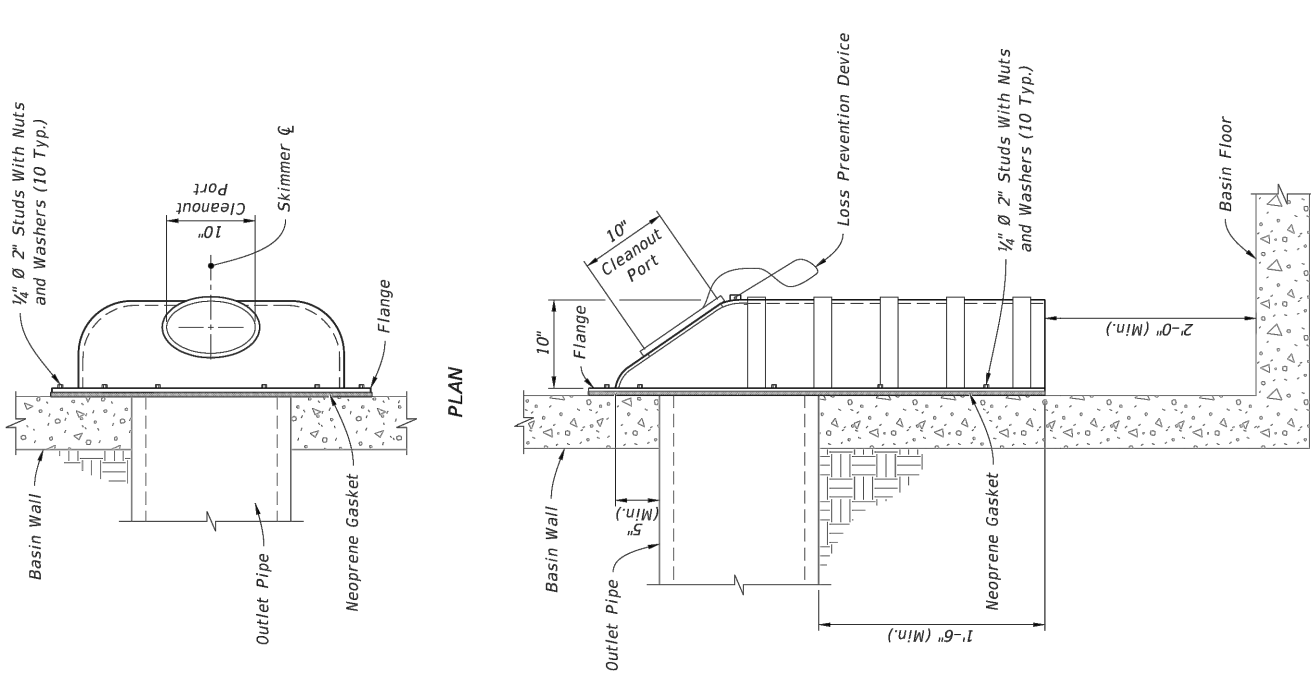
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 PROJECT NO.: 2151  
 DWG. NO.:  
 SHEET: C-52

POLLUTION CONTROL STRUCTURE											
Standard Detail	Width (ft)	Length (ft)	Height (ft)	Wall Thickness (in)	Top Slab Thickness (in)	Wall Steel	Top Slab Thickness (in)	Top Slab Steel	Bottom Slab Thickness (in)	Bottom Slab Steel	Bottom Slab Overhang (in)
5.2-3C	8.0	14.0	0.0 - 5.0	10.0	10.0	#5@9.5"H #4@10"V	10.0	#6@6" E.W.	10.0	#4@8" E.W.	12.0
5.2-3C	8.0	14.0	5.1 - 10.0	10.0	10.0	#7@9"H #4@10"V	10.0	#6@6" E.W.	10.0	#4@8" E.W.	12.0
5.2-3C	8.0	14.0	10.1 - 15.0	10.0	10.0	#8@8"H #4@10"V	10.0	#6@6" E.W.	10.0	#4@8" E.W.	12.0
5.2-2C	8.0	9.0	0.0 - 5.0	8.0	10.0	#5@9.5"H #4@10"V	10.0	#6@6" E.W.	10.0	#4@8" E.W.	12.0
5.2-2C	8.0	9.0	5.1 - 10.0	8.0	10.0	#7@9"H #4@10"V	10.0	#6@6" E.W.	10.0	#4@8" E.W.	12.0
5.2-2C	8.0	9.0	10.1-15.0	8.0	10.0	#8@8"H #4@10"V	10.0	#6@6" E.W.	10.0	#4@8" E.W.	12.0

5.2-3C - POLLUTION CONTROL STRUCTURE 3 CHAMBER  
 5.2-2C - POLLUTION CONTROL STRUCTURE 2 CHAMBER

MIAMI-DADE COUNTY DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS	APPROVED 5/8/2018	REVISED 5/8/2018	STANDARD STORM DRAINAGE DETAIL POLLUTION CONTROL STRUCTURE	SD 5.2 SHEET 4 OF 4
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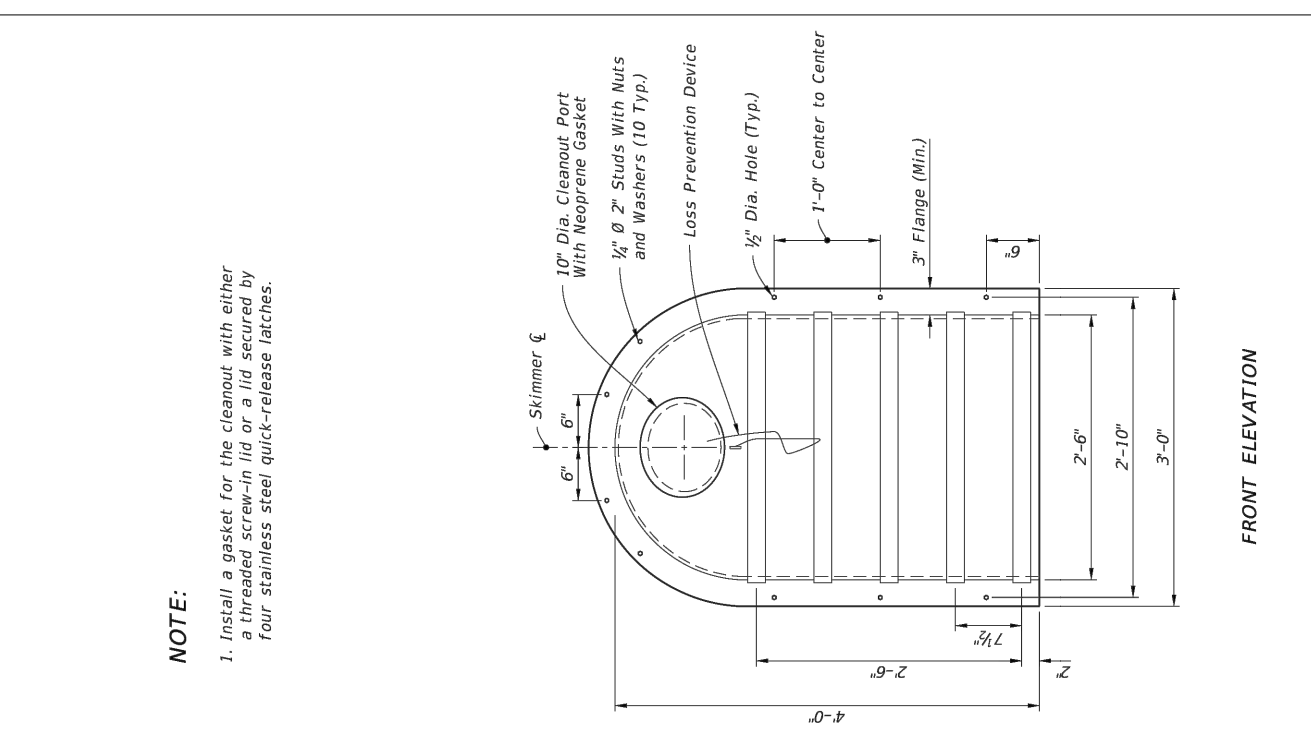
**NOTE:**

1. Install a gasket for the cleanout with either a threaded screw-in lid or a lid secured by four stainless steel quick-release latches.

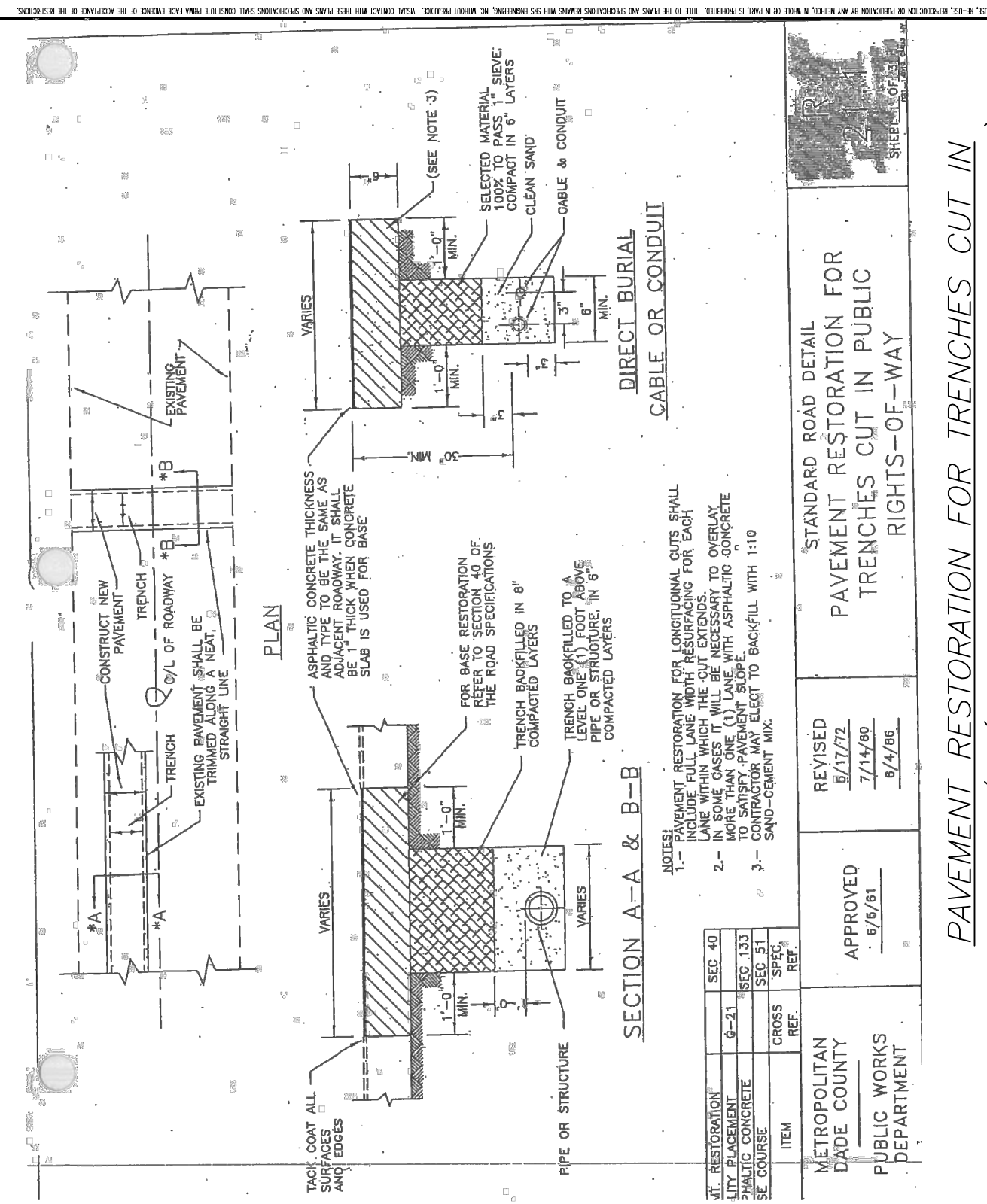
TYPE II DETAILS

**BAFFLE DETAIL (FDOT INDEX 443-002)**

N.T.S.



FRONT ELEVATION



SECTION A-A & B-B

DIRECT BURIAL CABLE OR CONDUIT

- NOTES:
1. PAVEMENT RESTORATION FOR LONGITUDINAL CUTS SHALL INCLUDE FULL LANE WIDTH RESURFACING FOR EACH LANE WITHIN WHICH THE CUT EXTENDS. IN SOME CASES IT WILL BE NECESSARY TO OVERLAY MORE THAN ONE (1) LANE WITH ASPHALTIC CONCRETE TO SATISFY PAVEMENT SLOPE. CONTRACTOR MAY ELECT TO BACKFILL WITH 1:1:1 SAND-CEMENT MIX.
  2. TRENCH BACKFILL TO A LEVEL ONE (1) FOOT ABOVE PIPE OR STRUCTURE. IN 6" COMPACTED LAYERS.
  3. TRENCH BACKFILL TO A LEVEL ONE (1) FOOT ABOVE PIPE OR STRUCTURE. IN 6" COMPACTED LAYERS.

STANDARD ROAD DETAIL PAVEMENT RESTORATION FOR TRENCHES CUT IN PUBLIC RIGHTS-OF-WAY

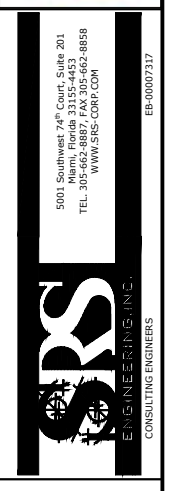
APPROVED 6/6/61

METROPOLITAN DADE COUNTY PUBLIC WORKS DEPARTMENT

REVISED 8/17/72 7/14/80 6/4/86

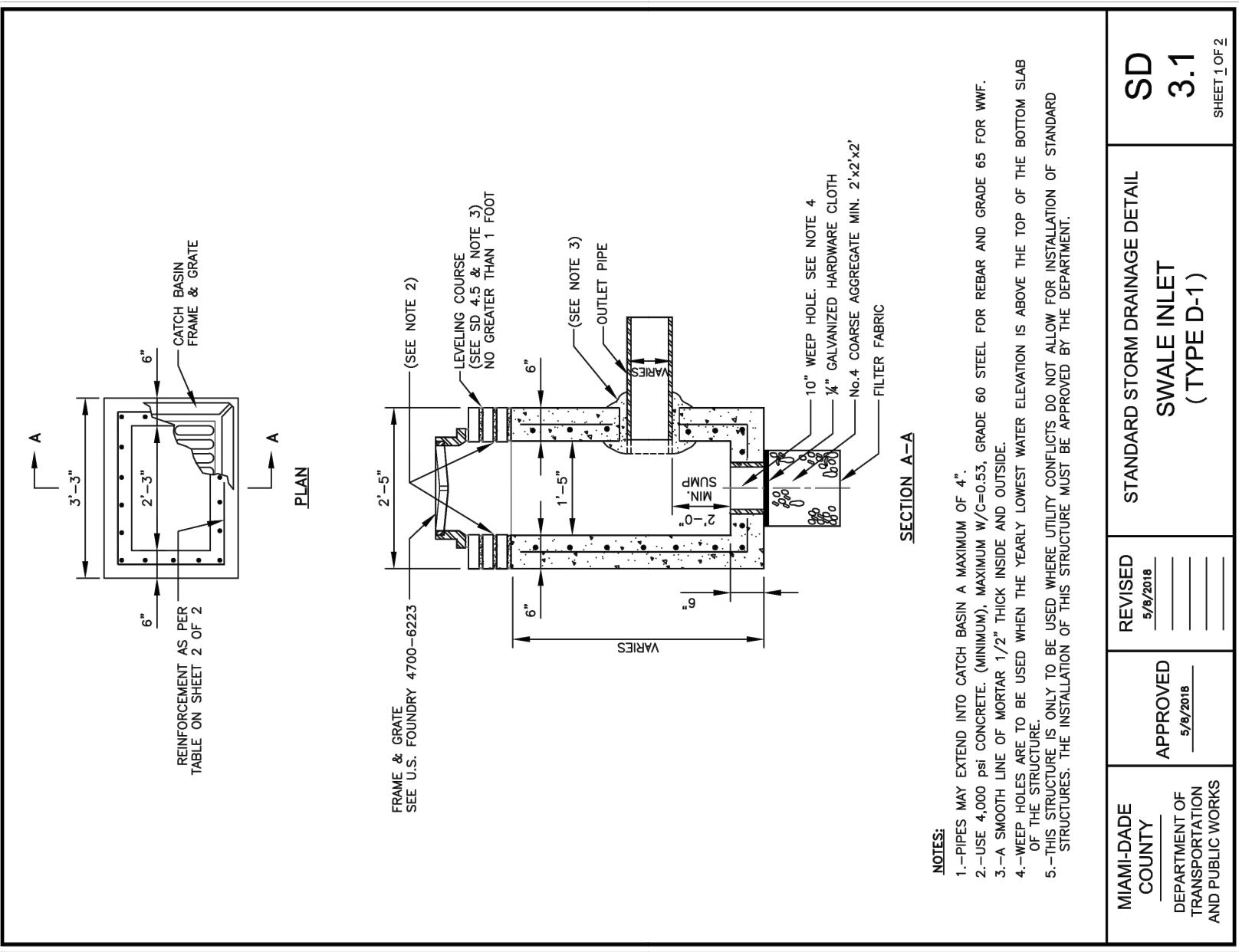
PAVEMENT RESTORATION FOR TRENCHES CUT IN PUBLIC RIGHTS-OF-WAY

DESIGNED BY: C.B.	SEAL:	CUTLER BAY TOWN HALL	CUTLER BAY - ROADWAY & DRAINAGE IMPROVEMENTS AREA # 1	MISCELLANEOUS DETAILS	SCALE: AS SHOWN
DRAWN BY: C.B.		10720 CARIBBEAN BOULEVARD			
CHECKED BY: J.C.F.		CUTLER BAY, FL 33189			PROJECT NO.: 2151
DATE: 12/6/2023		PHONE: (305) 234-4262			DWG. NO.:
REV. DATE BY: DESCRIPTION		FAX: (305) 234-4251			SHEET: C-53



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RECTANGULAR BOX										
Standard Detail	Width (ft)	Length (ft)	Height (ft)	Wall Thickness (in)	Wall Steel	Top Slab Thickness (in)	Top Slab Steel	Bottom Slab Thickness (in)	Bottom Slab Steel	Bottom Slab Overhang
3.1	1.42	2.25	0 - 5.0	6"	#4@10"H	N/A	N/A	6"	#4@12" E.W.	6"
3.1	1.42	2.25	5.1 - 10.0	6"	#4@10"H	N/A	N/A	6"	#4@12" E.W.	N/A
3.1	1.42	2.25	10.1-15.0	6"	#4@6"H	N/A	N/A	8"	#4@12" E.W.	N/A

MIAMI-DADE COUNTY DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS	APPROVED 5/8/2018	REVISED 5/8/2018	STANDARD STORM DRAINAGE DETAIL SWALE INLET (TYPE D-1)	SD 3.1 SHEET 2 OF 2
--	----------------------	---------------------	---	---------------------------

DESIGNED BY: C.B.	DATE: 12/6/2023
DRAWN BY: C.B.	
CHECKED BY: J.C.F.	
DATE: 12/6/2023	
REV. DATE BY: DESCRIPTION	

SEAL:

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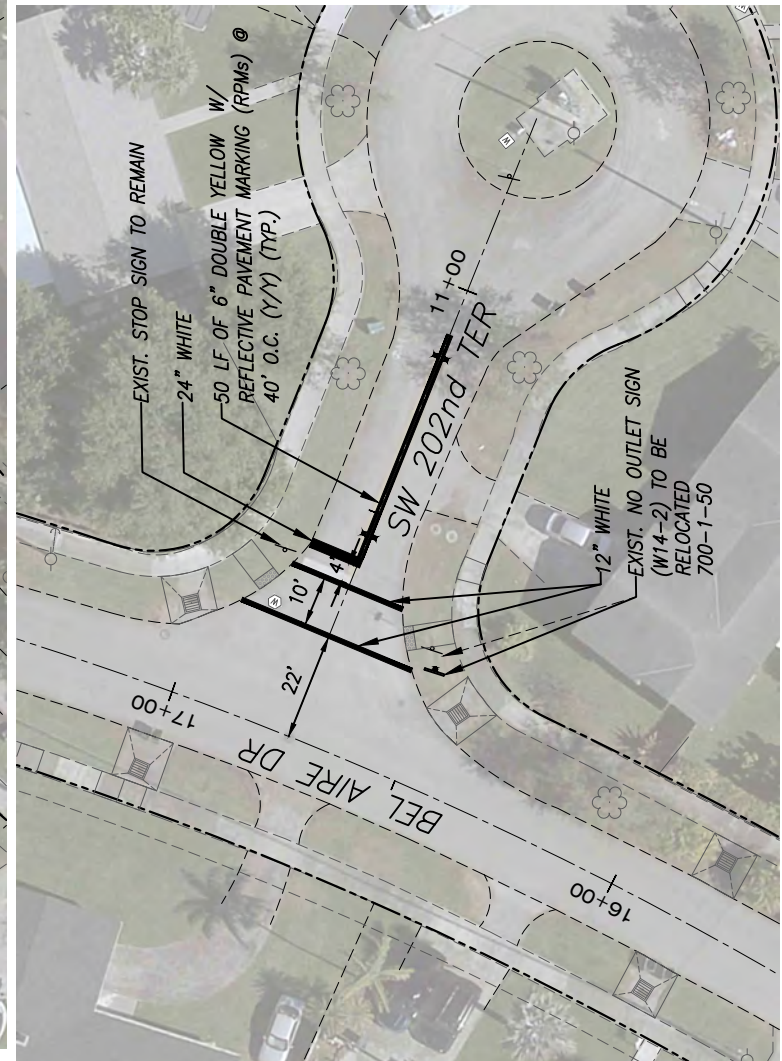
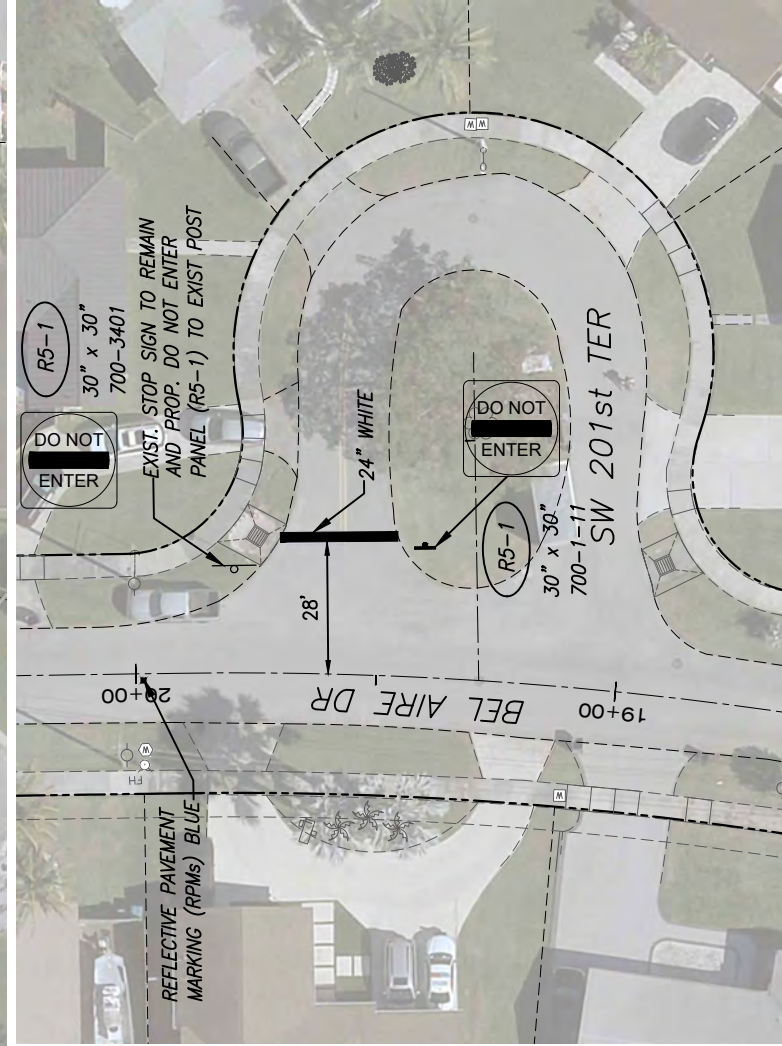
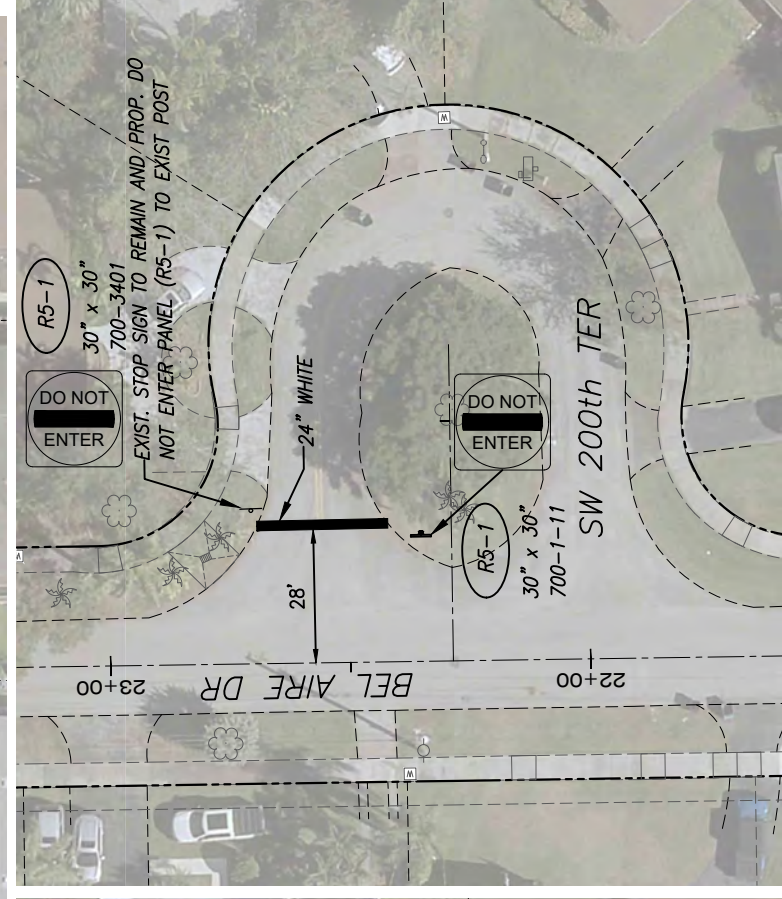
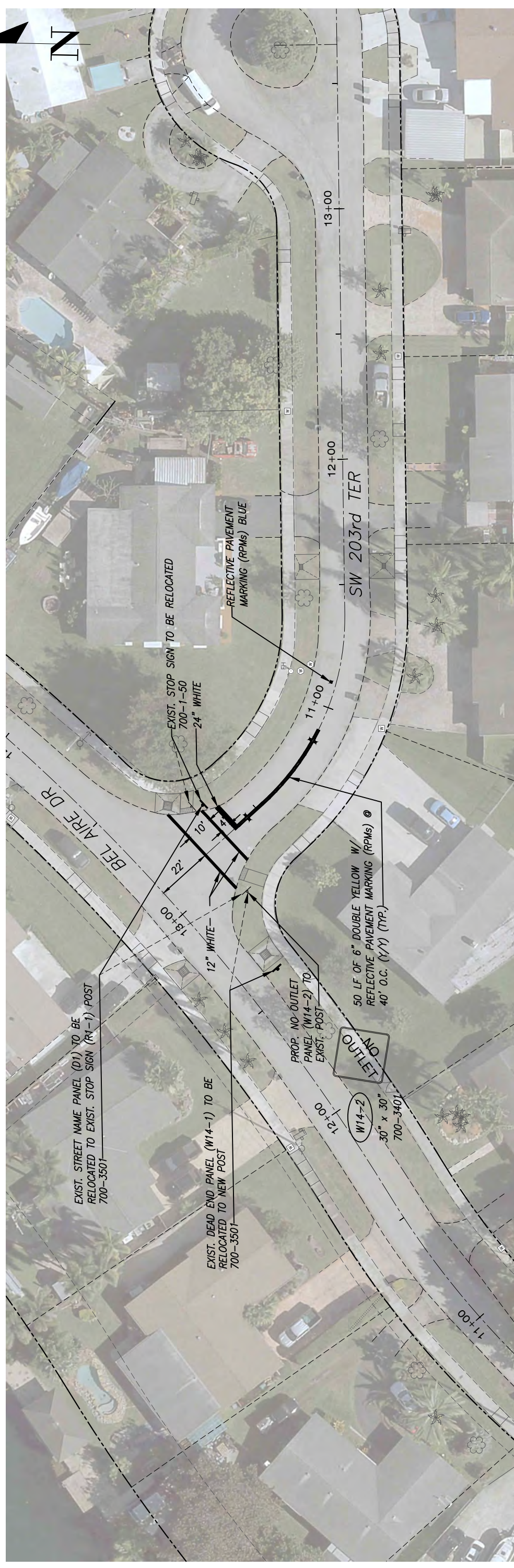
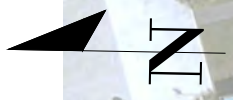
CUTLER BAY TOWN HALL  
 10720 CARIBBEAN BOULEVARD  
 CUTLER BAY, FL 33189  
 PHONE: (305) 234-4262  
 FAX: (305) 234-4251

CUTLER BAY - ROADWAY & DRAINAGE IMPROVEMENTS  
 AREA # 1

MISCELLANEOUS DETAILS

SCALE: AS SHOWN  
 PROJECT NO.: 2151  
 DWG. NO.:  
 SHEET: C-55

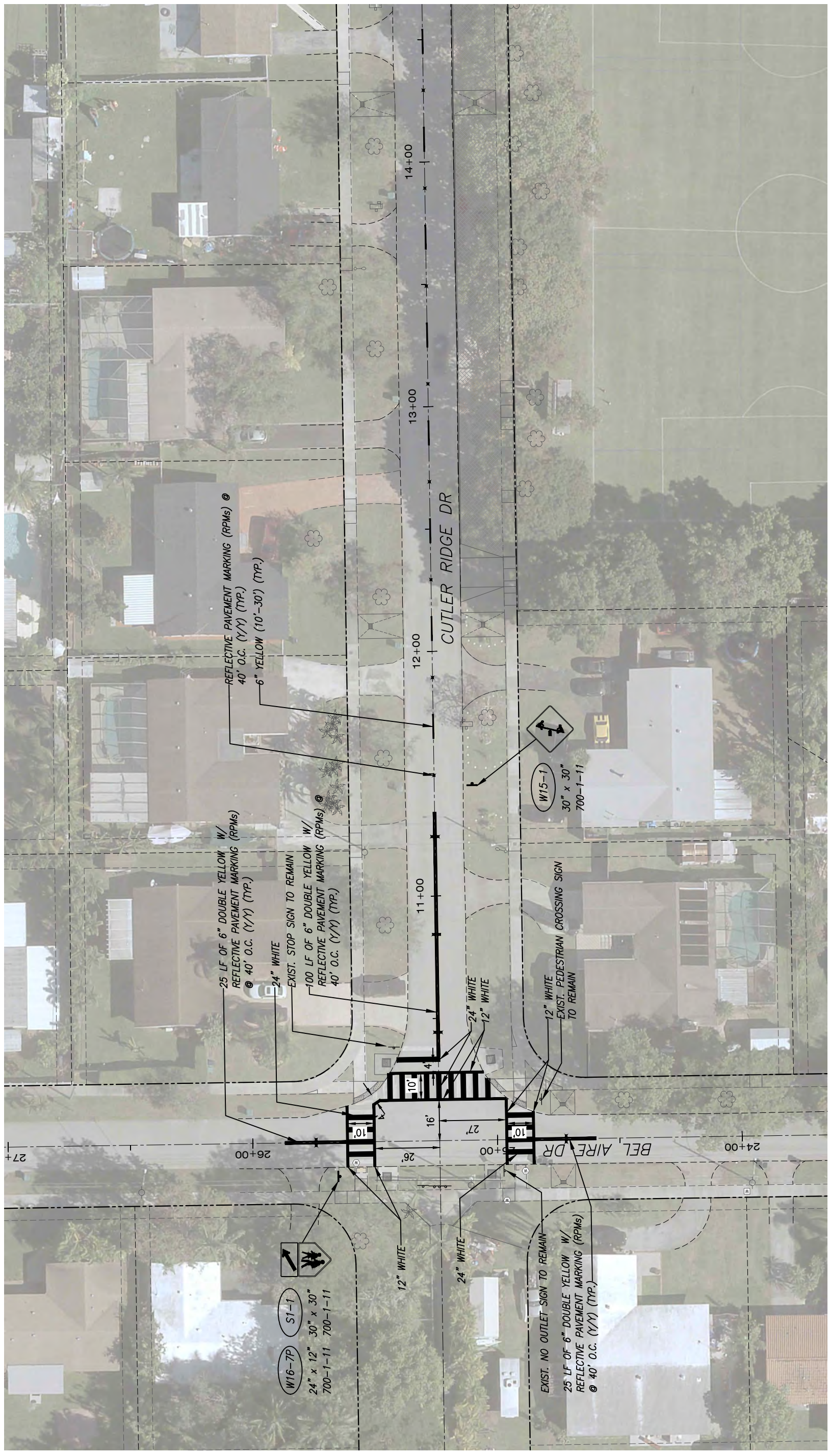
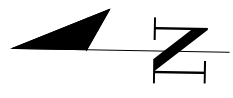




Filename: F:\Engineering\RSR Projects\2021\2151 - Cutler Bay Drainage Sub-Basins Roadway Improvements\Area 1\Design\2151 - PAGE\_56\_66\_PM (Area 1).dwg - Plot Date: 4.8.2019

DESIGNED BY: C.B. DRAWN BY: C.B. CHECKED BY: J.C.F. DATE: 12/6/2023	SEAL:		5001 Southwest 74 <sup>th</sup> Court, Suite 201 Miami, Florida 33155-4453 TEL: 305-662-8887 FAX: 305-662-8858 WWW.SRS-CORP.COM		CUTLER BAY TOWN HALL 10720 CARIBBEAN BOULEVARD CUTLER BAY, FL 33189 PHONE: (305) 234-4262 FAX: (305) 234-4251	<b>CUTLER BAY - ROADWAY &amp; DRAINAGE IMPROVEMENTS AREA # 1</b>	SCALE: AS SHOWN
							PROJECT NO.: 2151
REV.	DATE	BY:	DESCRIPTION	DWG. NO.:	SHEET:	C-56	

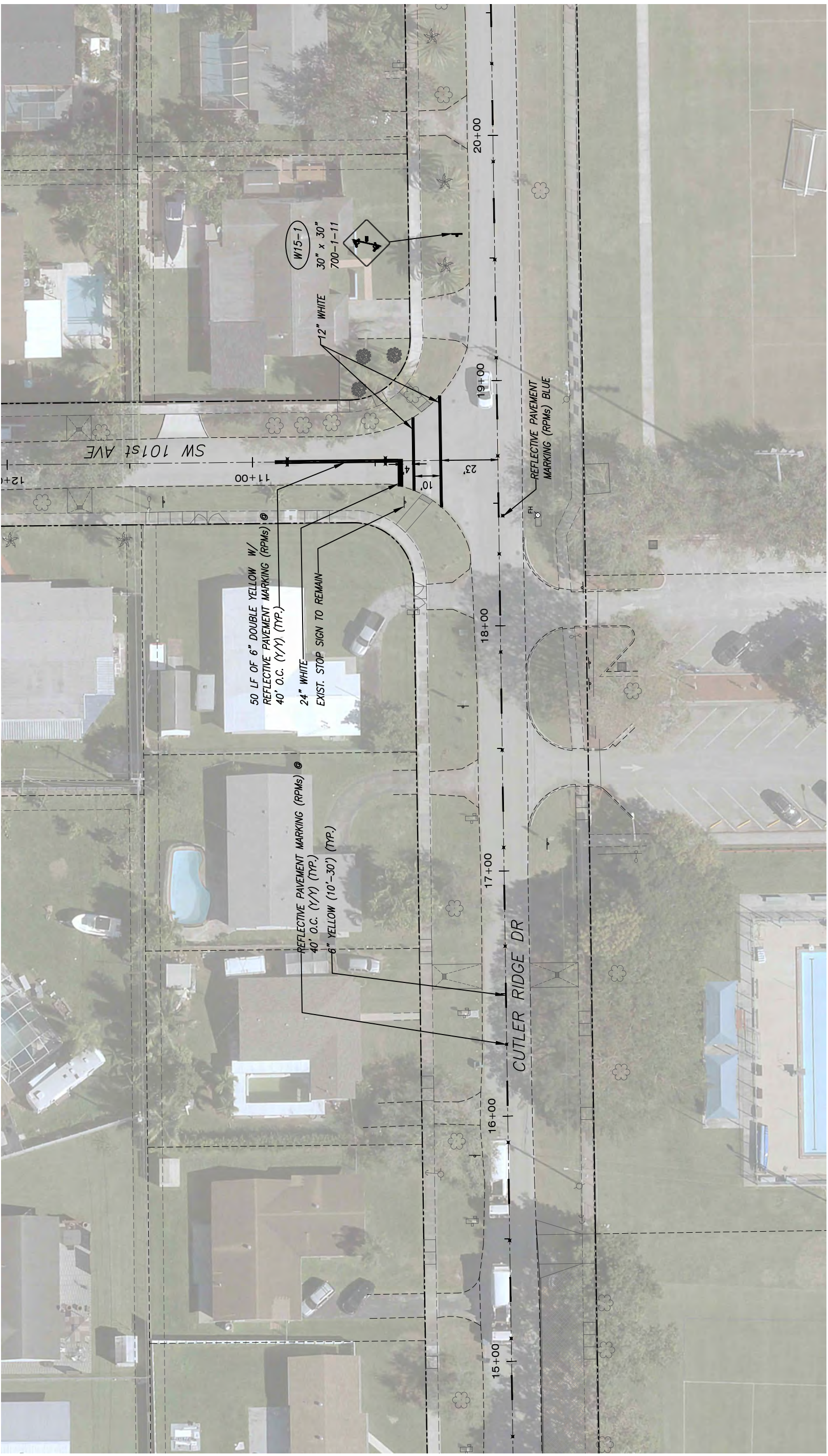




REV.	DATE	BY:	DESCRIPTION
DESIGNED BY:	C.B.		
DRAWN BY:	C.B.		
CHECKED BY:	J.C.F.		
DATE:	12/6/2023		
SEAL:			
<small>5001 Southwest 74th Court, Suite 201        Miami, Florida 33155-4453        TEL: 305-662-8887 FAX: 305-662-8858        WWW.SRS-CORP.COM</small>			
<small>CUTLER BAY TOWN HALL        10720 CARIBBEAN BOULEVARD        CUTLER BAY, FL 33189        PHONE: (305) 234-4262        FAX: (305) 234-4251</small>			
<b>CUTLER BAY - ROADWAY &amp; DRAINAGE IMPROVEMENTS AREA # 1</b>			
<b>PAVEMENT MARKING AND SIGNAGE PLANS</b>			
SCALE:	AS SHOWN		
PROJECT NO.:	2151		
DWG. NO.:	SHEET: C-57		

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REV.	DATE	BY:	DESCRIPTION

DESIGNED BY: O.B.  
 DRAWN BY: O.B.  
 CHECKED BY: J.C.F.  
 DATE: 12/6/2023

SEAL:

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 CONSULTING ENGINEERS

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 Miami, Florida 33155-4453  
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 BOULEVARD  
 CUTLER BAY, FL 33189  
 PHONE: (305) 234-4262  
 FAX: (305) 234-4251



**CUTLER BAY - ROADWAY &  
 DRAINAGE IMPROVEMENTS  
 AREA # 1**

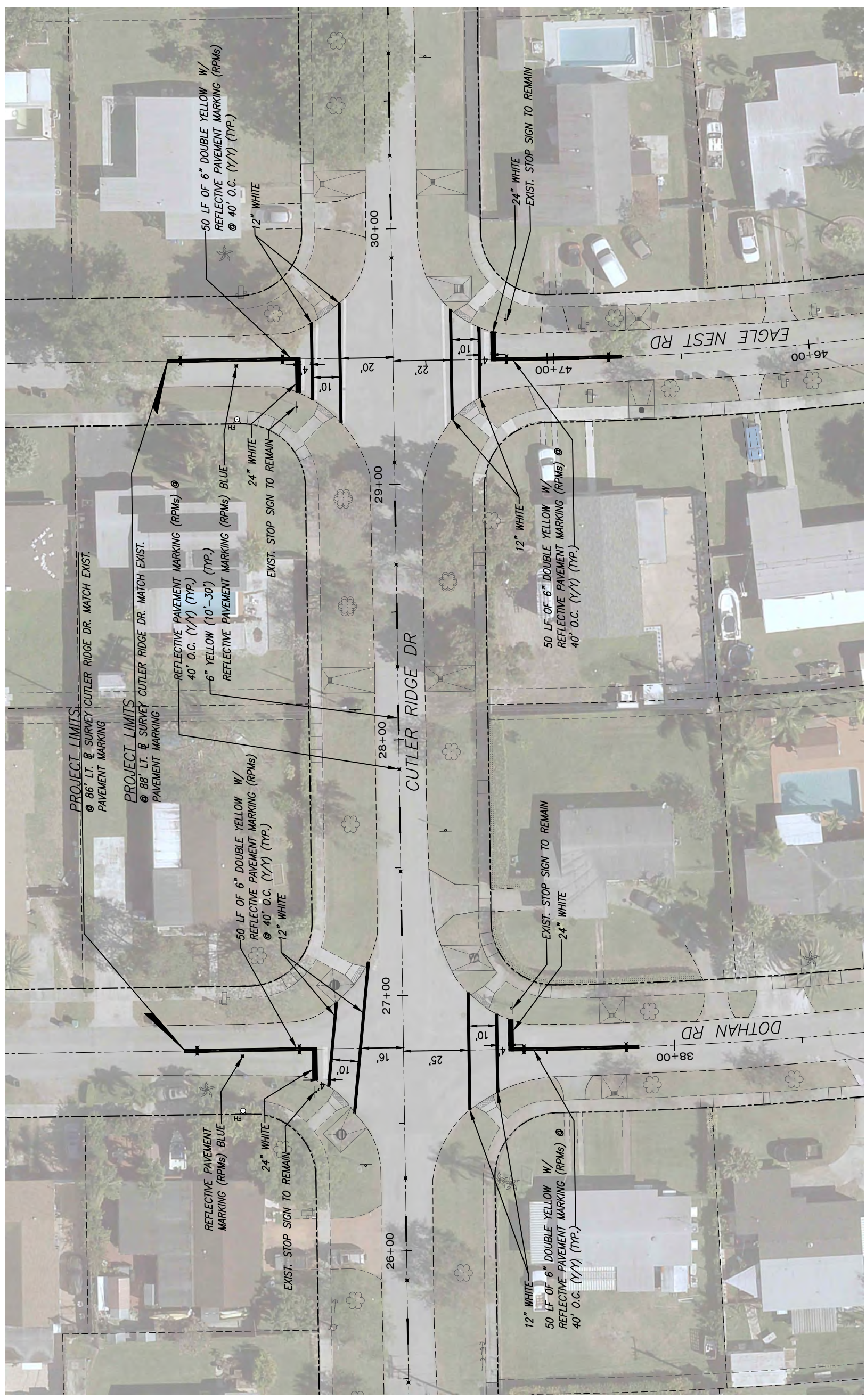
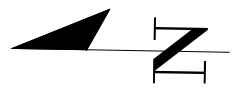
PAVEMENT MARKING  
 AND SIGNAGE PLANS

SCALE: AS SHOWN  
 PROJECT NO.: 2151  
 DWG. NO.:  
 SHEET: C-58









**PROJECT LIMITS:**  
 @ 86' LT. @ SURVEY CUTLER RIDGE DR. MATCH EXIST.  
 PAVEMENT MARKING

**PROJECT LIMITS:**  
 @ 88' LT. @ SURVEY CUTLER RIDGE DR. MATCH EXIST.  
 PAVEMENT MARKING

REFLECTIVE PAVEMENT MARKING (RPMs) @  
 40' O.C. (Y/Y) (TYP.)  
 6" YELLOW (10'-30') (TYP.)  
 REFLECTIVE PAVEMENT MARKING (RPMs) BLUE  
 24" WHITE  
 EXIST. STOP SIGN TO REMAIN

50 LF OF 6" DOUBLE YELLOW W/  
 REFLECTIVE PAVEMENT MARKING (RPMs)  
 @ 40' O.C. (Y/Y) (TYP.)  
 12" WHITE

REFLECTIVE PAVEMENT MARKING (RPMs) BLUE  
 24" WHITE  
 EXIST. STOP SIGN TO REMAIN

12" WHITE  
 50 LF OF 6" DOUBLE YELLOW W/  
 REFLECTIVE PAVEMENT MARKING (RPMs) @  
 40' O.C. (Y/Y) (TYP.)

EXIST. STOP SIGN TO REMAIN  
 24" WHITE

50 LF OF 6" DOUBLE YELLOW W/  
 REFLECTIVE PAVEMENT MARKING (RPMs) @  
 40' O.C. (Y/Y) (TYP.)  
 12" WHITE

24" WHITE  
 EXIST. STOP SIGN TO REMAIN

REV.	DATE	BY:	DESCRIPTION

DESIGNED BY:	C.B.
DRAWN BY:	C.B.
CHECKED BY:	J.C.F.
DATE:	12/6/2023

SCALE:	AS SHOWN
PROJECT NO.:	2151
DWG. NO.:	SHEET: C-60

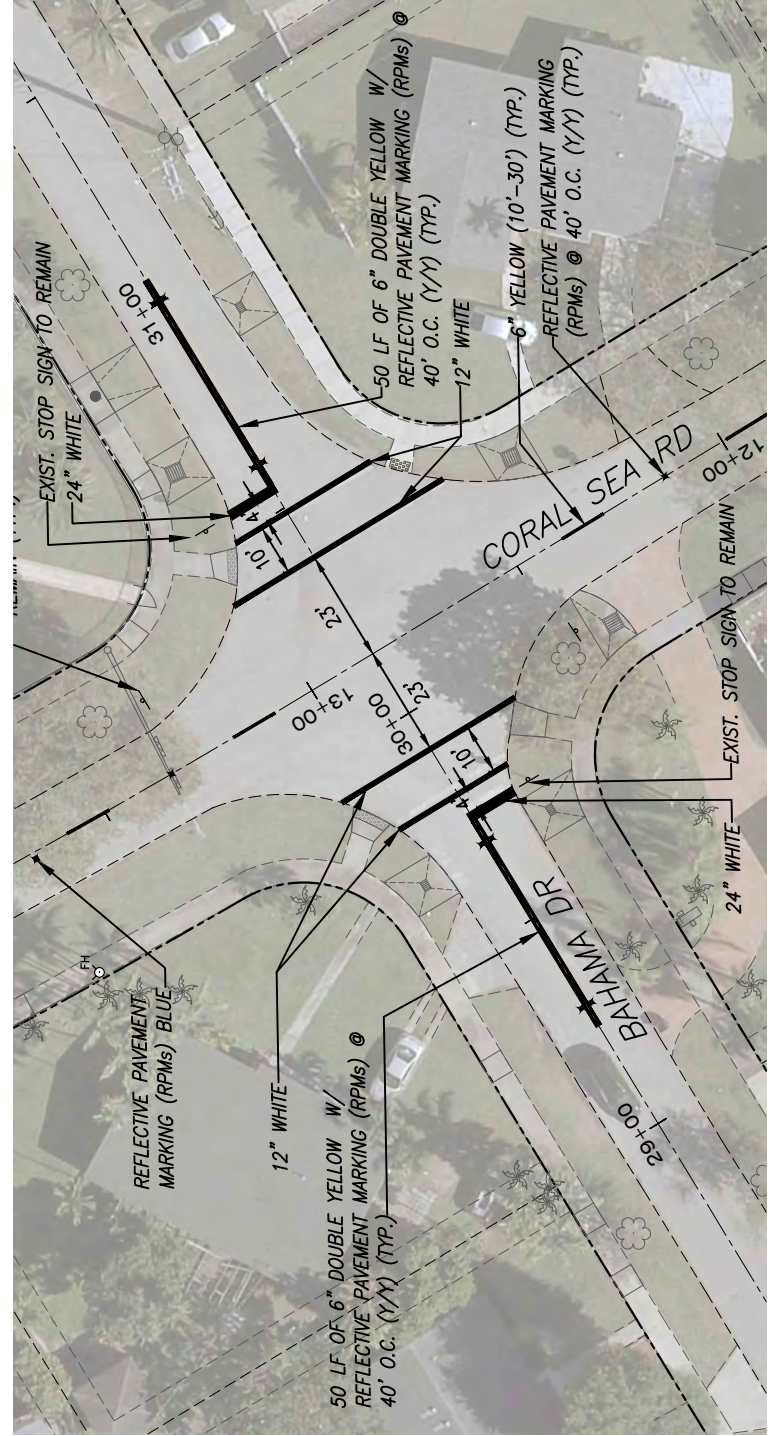
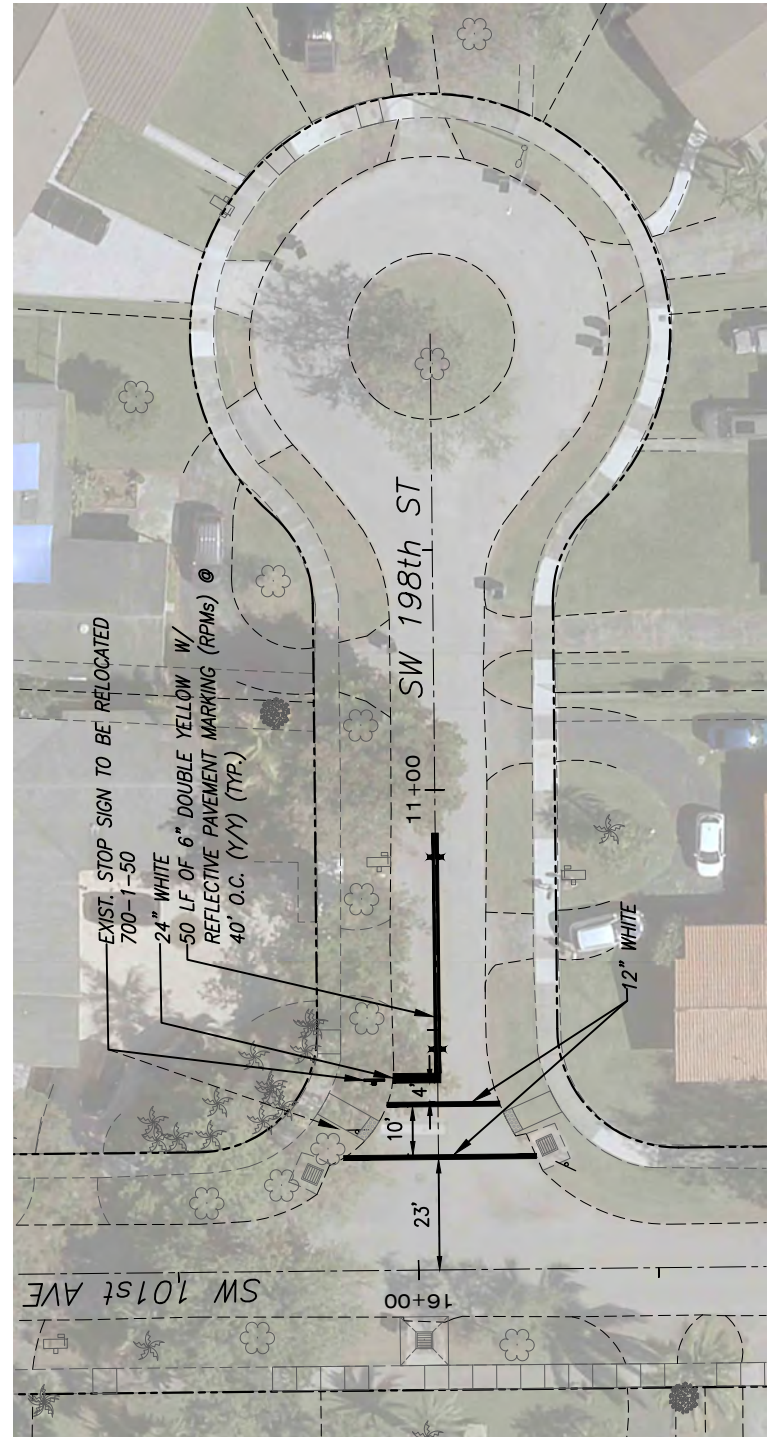
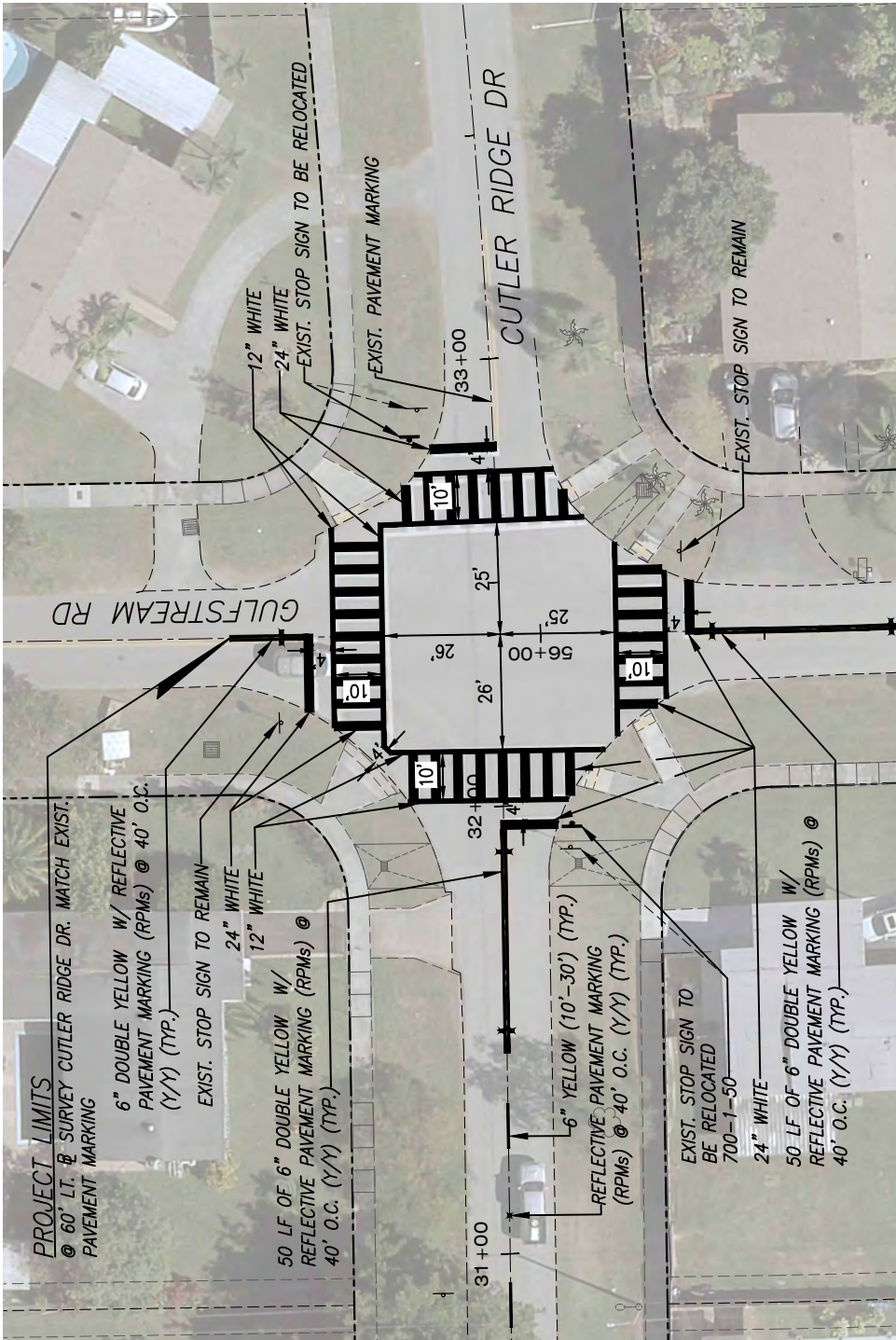
  

CUTLER BAY TOWN HALL 10720 CARIBBEAN BOULEVARD CUTLER BAY, FL 33189 PHONE: (305) 234-4262 FAX: (305) 234-4251	
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<b>CUTLER BAY - ROADWAY &amp; DRAINAGE IMPROVEMENTS AREA # 1</b>	
<b>PAVEMENT MARKING AND SIGNAGE PLANS</b>	

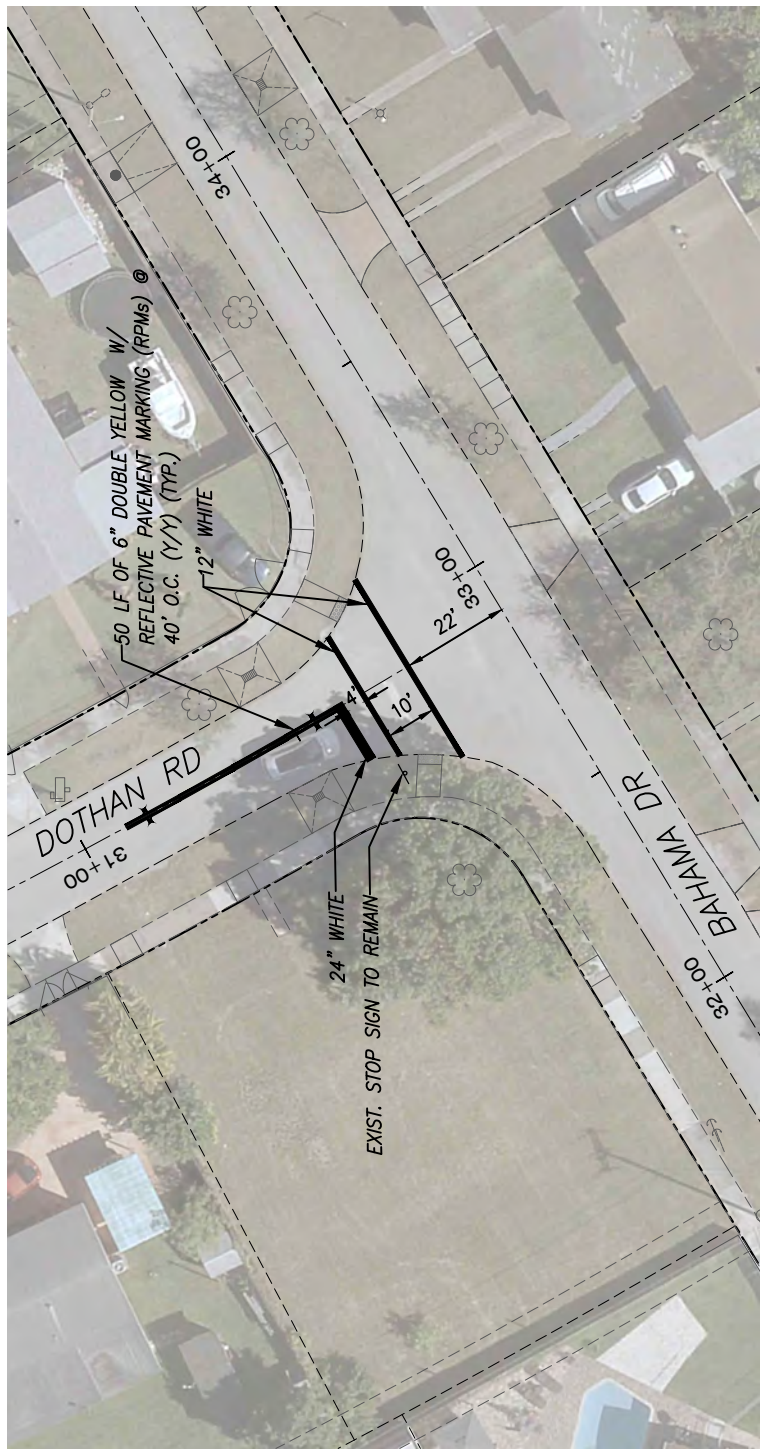
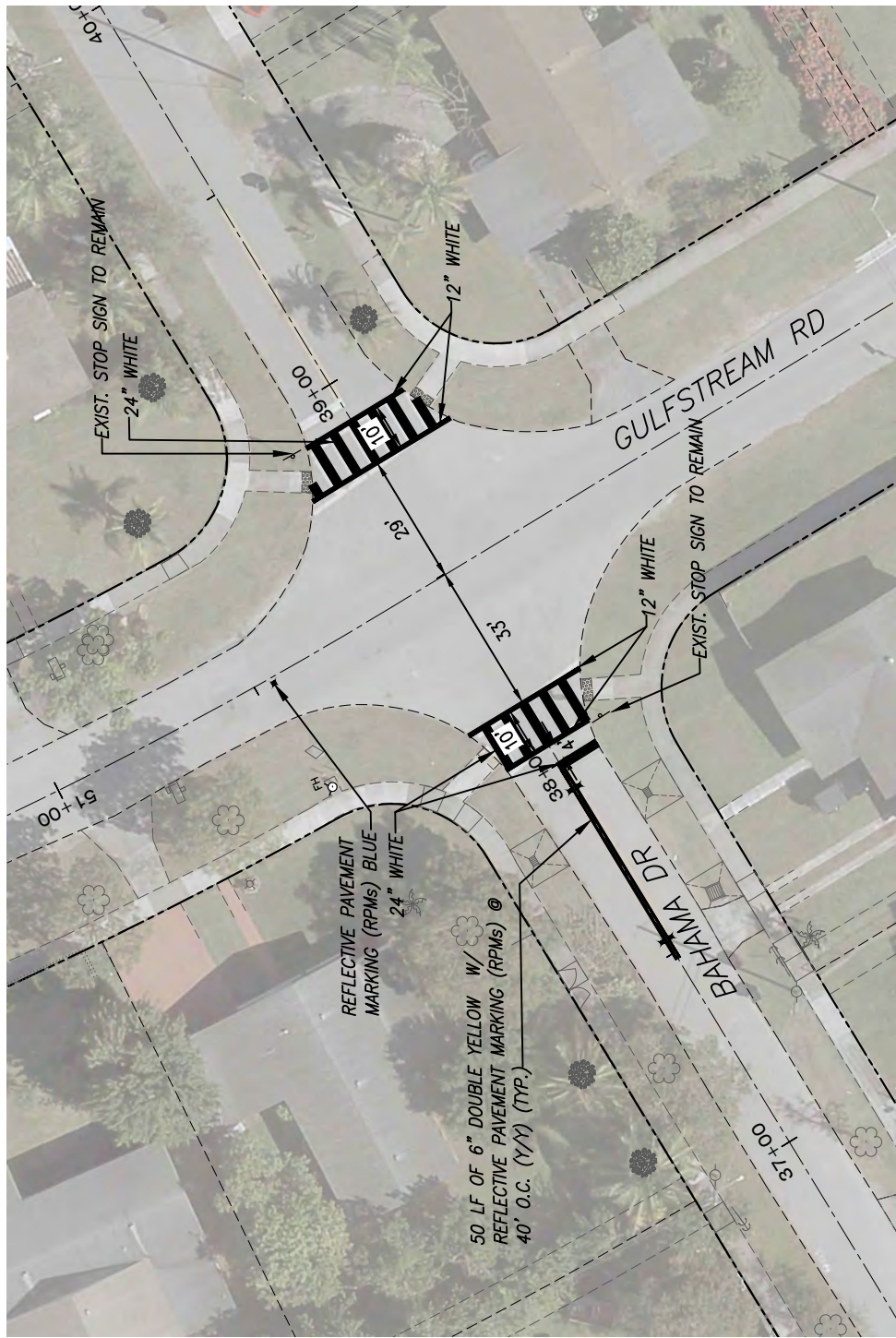
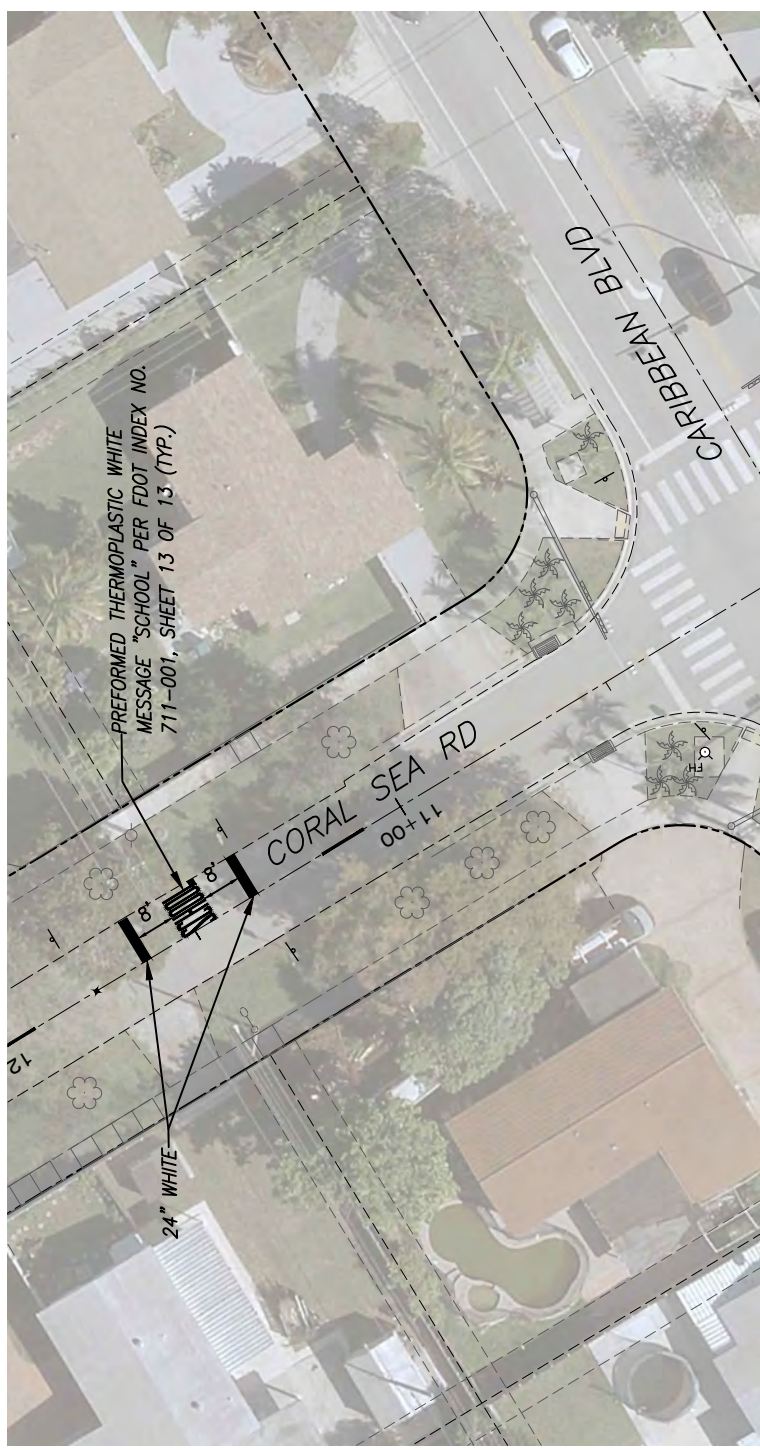
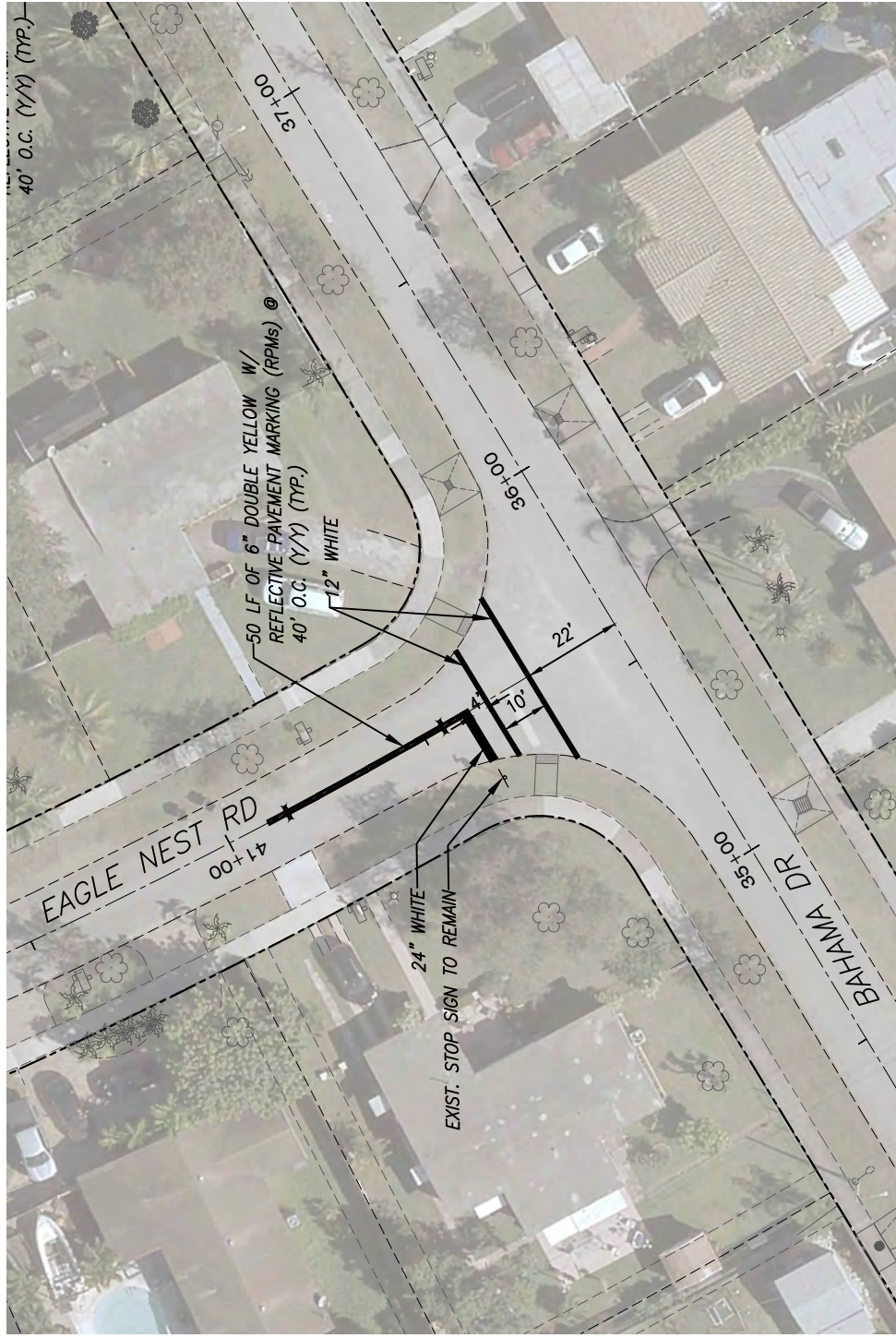
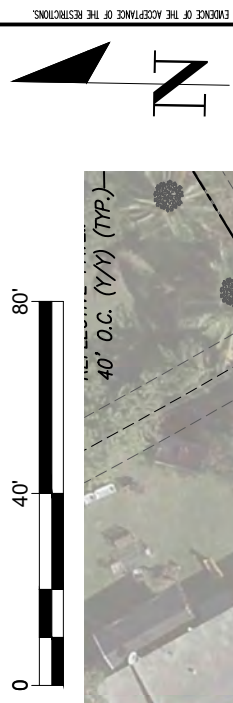




Filename: F:\Engineering\RSR Projects\2021\2151 - Cutler Bay Drainage Sub-Basins Roadway Improvements\Area 1\Design\2151\_PAGE\_56\_66\_PM (Area 1).dwg - Plot Date: 4/8/2019

DESIGNED BY: C.B. DRAWN BY: C.B. CHECKED BY: J.C.F. DATE: 12/6/2023	SEAL:	 5001 Southwest 74th Court, Suite 201 Miami, Florida 33155-4453 TEL: 305-662-8887, FAX: 305-662-8858 WWW.SRS-CORP.COM	 INCORPORATED 1981 CUTLER BAY TOWN HALL 10720 CARIBBEAN BOULEVARD CUTLER BAY, FL 33189 PHONE: (305) 234-4262 FAX: (305) 234-4251	<b>CUTLER BAY - ROADWAY &amp; DRAINAGE IMPROVEMENTS AREA # 1</b>	<b>PAVEMENT MARKING AND SIGNAGE PLANS</b>	SCALE: AS SHOWN
						PROJECT NO.: 2151

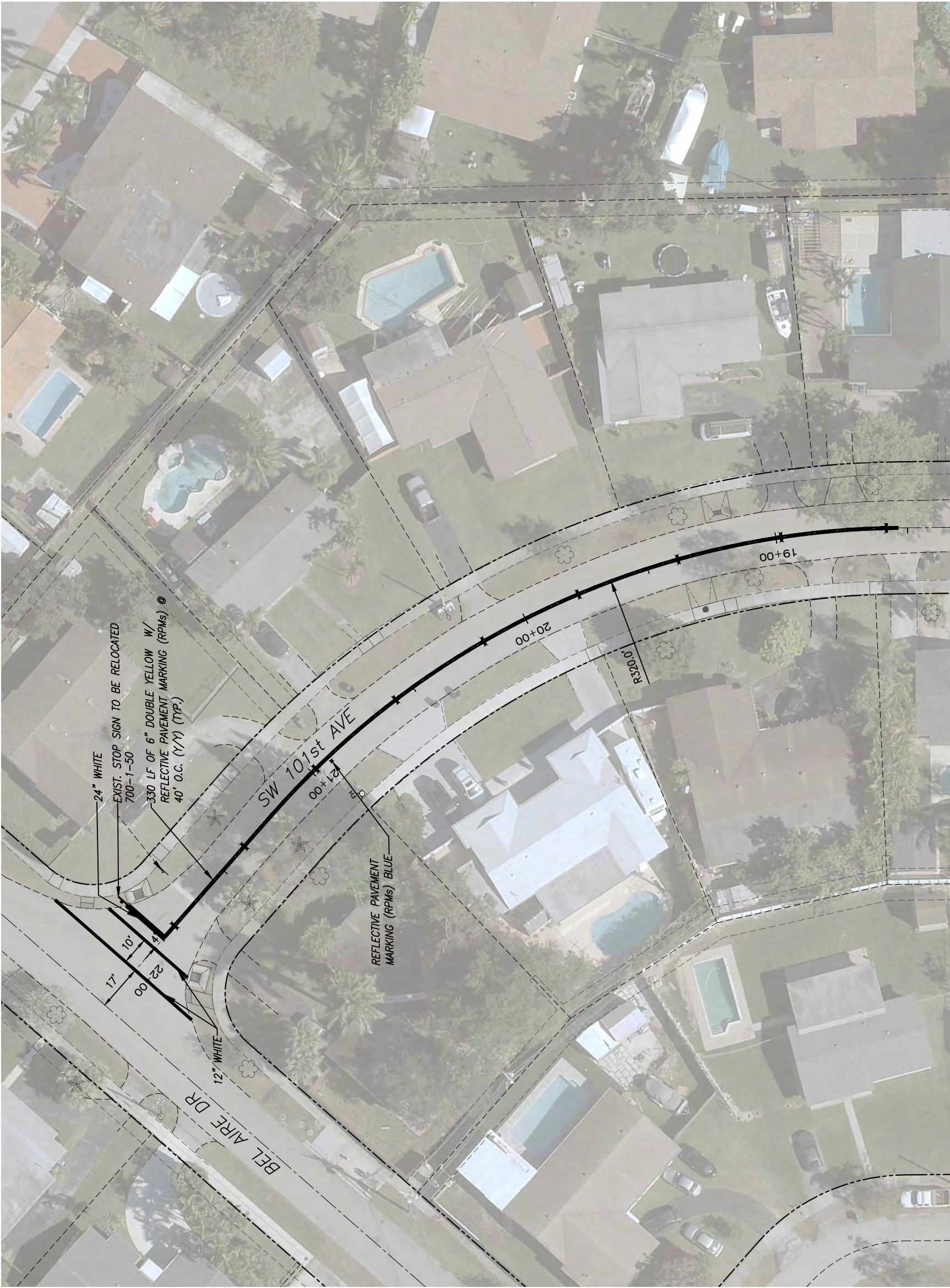




<b>CUTLER BAY - ROADWAY &amp; DRAINAGE IMPROVEMENTS AREA # 1</b>	SCALE: AS SHOWN PROJECT NO.: 2151 DWG. NO.: SHEET: C-62
	<b>CUTLER BAY TOWN HALL</b> 10720 CARIBBEAN BOULEVARD CUTLER BAY, FL 33189 PHONE: (305) 234-4262 FAX: (305) 234-4251
DESIGNED BY: C.B. DRAWN BY: C.B. CHECKED BY: J.C.F. DATE: 12/6/2023	SEAL:
REV. DATE BY: DESCRIPTION	5001 Southwest 74th Court, Suite 201 Miami, Florida 33155-4453 TEL: 305-662-8887 FAX: 305-662-8858 WWW.SRS-CORP.COM

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SCALE: AS SHOWN  
 PROJECT NO.: 2151  
 DWG. NO.:  
 SHEET: C-63

PAVEMENT MARKING  
 AND SIGNAGE PLANS

CUTLER BAY - ROADWAY &  
 DRAINAGE IMPROVEMENTS  
 AREA # 1

CUTLER BAY  
 TOWN HALL  
 10720 CARIBBEAN  
 BOULEVARD  
 CUTLER BAY, FL 33189  
 PHONE: (305) 234-4262  
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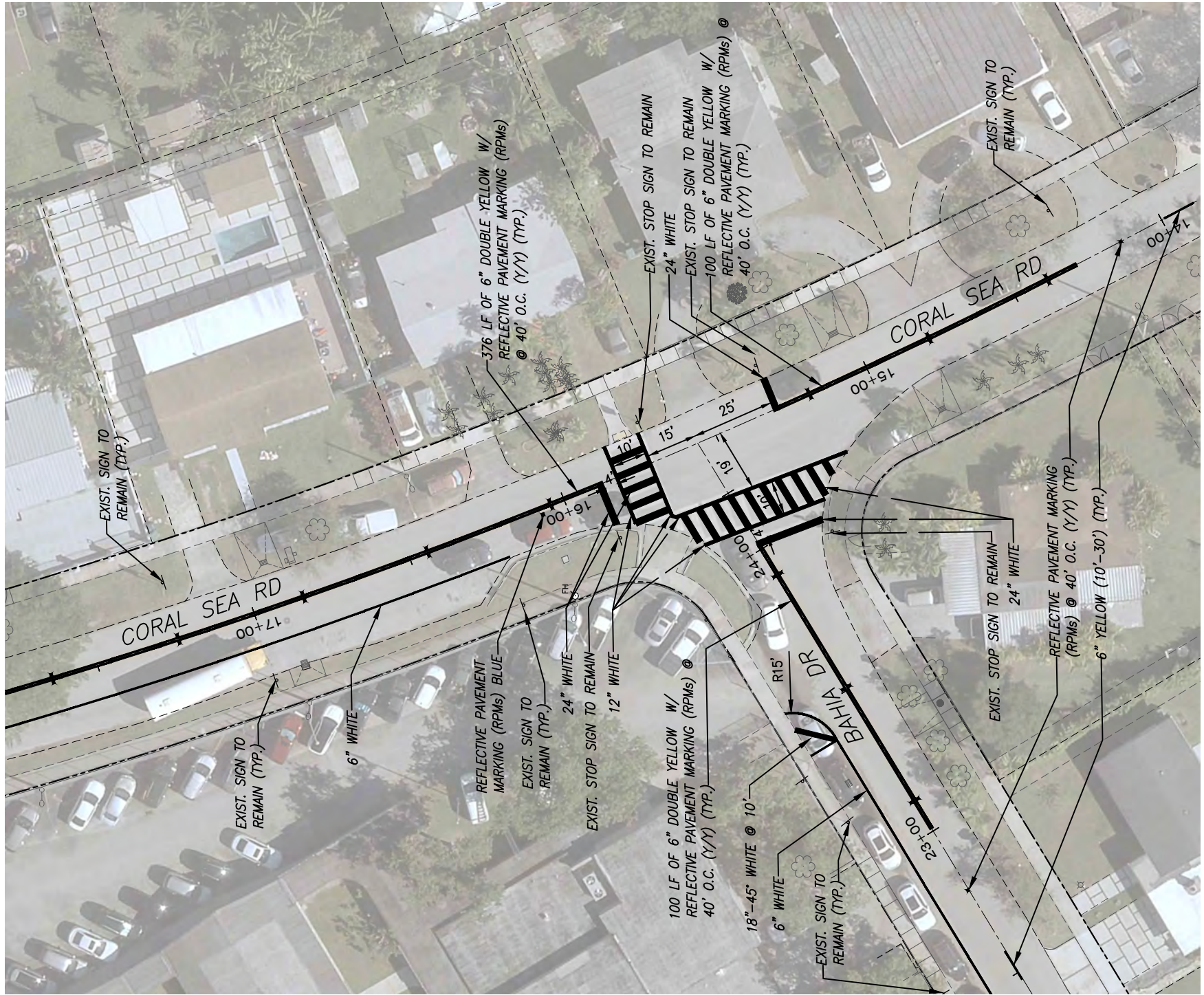
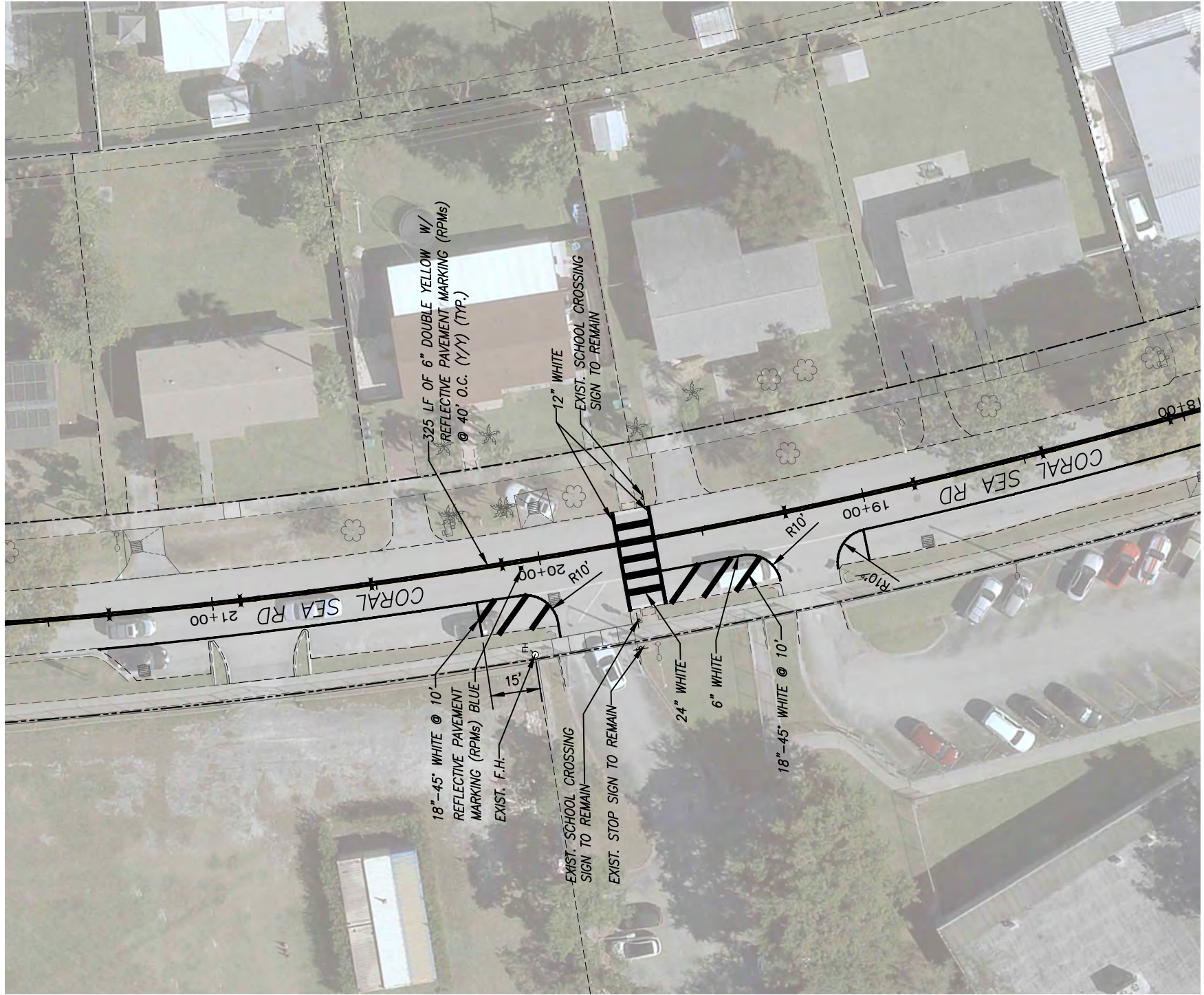
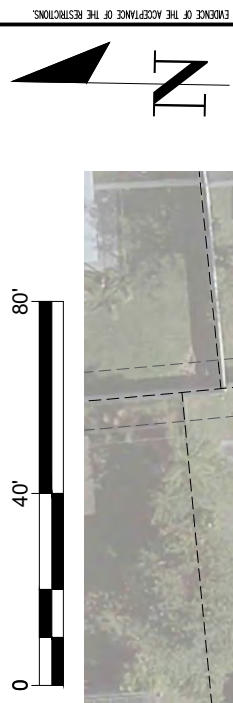


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 DRAWN BY: C.B.  
 CHECKED BY: J.C.F.  
 DATE: 12/6/2023

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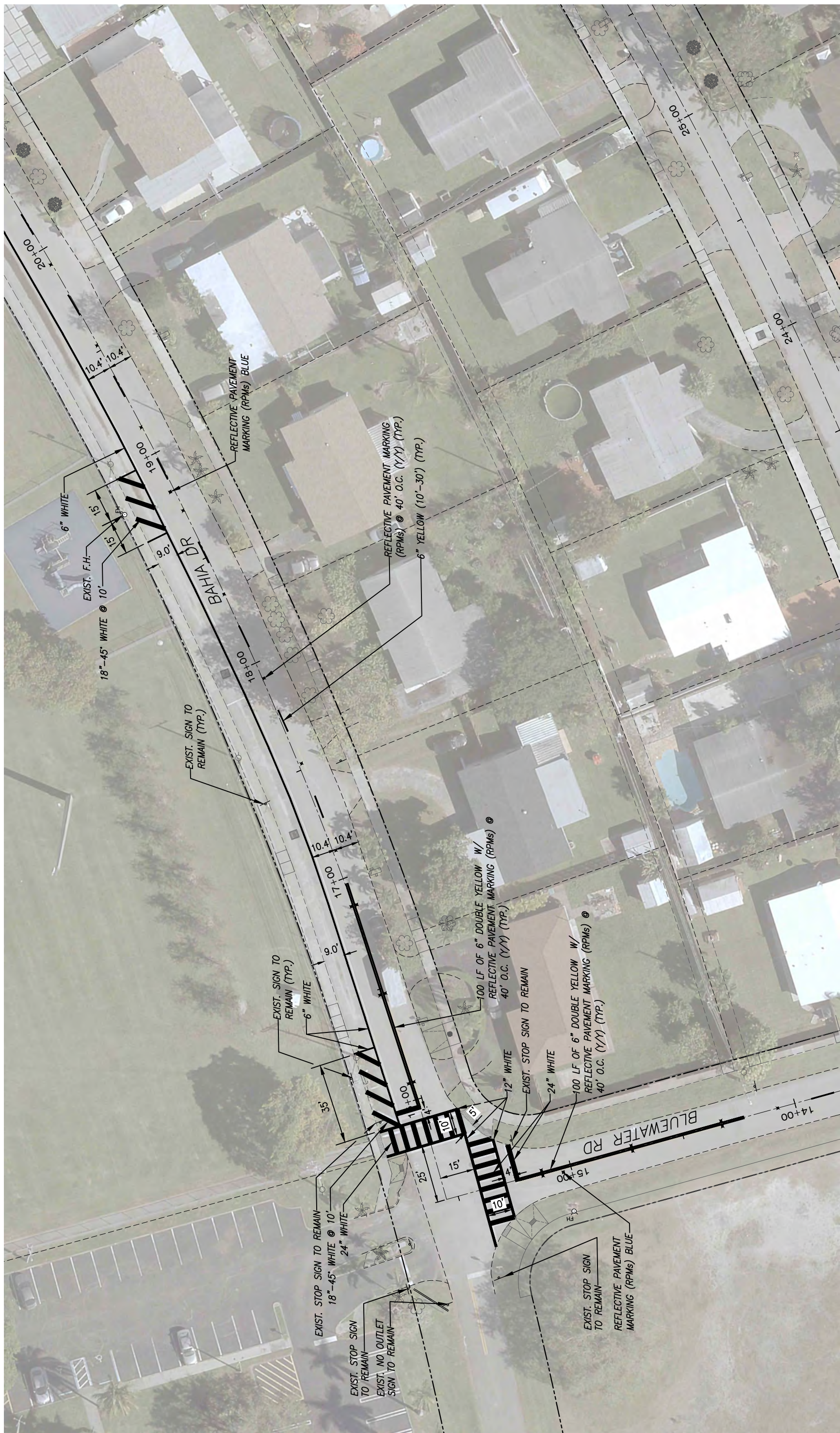
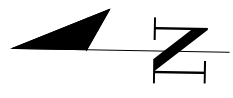


ITB #24-02  
 BEL AIRE, EUREKA DRIVE ESTS, CUTLER COUNTRY GROVES, ALLOM ESTS, AND SOUTH GROVE WATER QUALITY IMPROVEMENT PROJECT  
 Page 284 of 383

SCALE: AS SHOWN PROJECT NO.: 2151 DWG. NO.: SHEET: C-64		
<b>PAVEMENT MARKING AND SIGNAGE PLANS</b>		
<b>CUTLER BAY - ROADWAY &amp; DRAINAGE IMPROVEMENTS AREA # 1</b>		
CUTLER BAY TOWN HALL 10720 CARIBBEAN BOULEVARD CUTLER BAY, FL 33189 PHONE: (305) 234-4262 FAX: (305) 234-4251		
5001 Southwest 74th Court, Suite 201 Miami, Florida 33152-4453 TEL: 305-662-8887 FAX: 305-662-8858 WWW.SRS-CON.COM		
SEAL:		
DESIGNED BY: C.B.	DATE: 12/6/2023	
DRAWN BY: C.B.	BY:	
CHECKED BY: J.C.F.	DATE:	
REV.	DATE	DESCRIPTION

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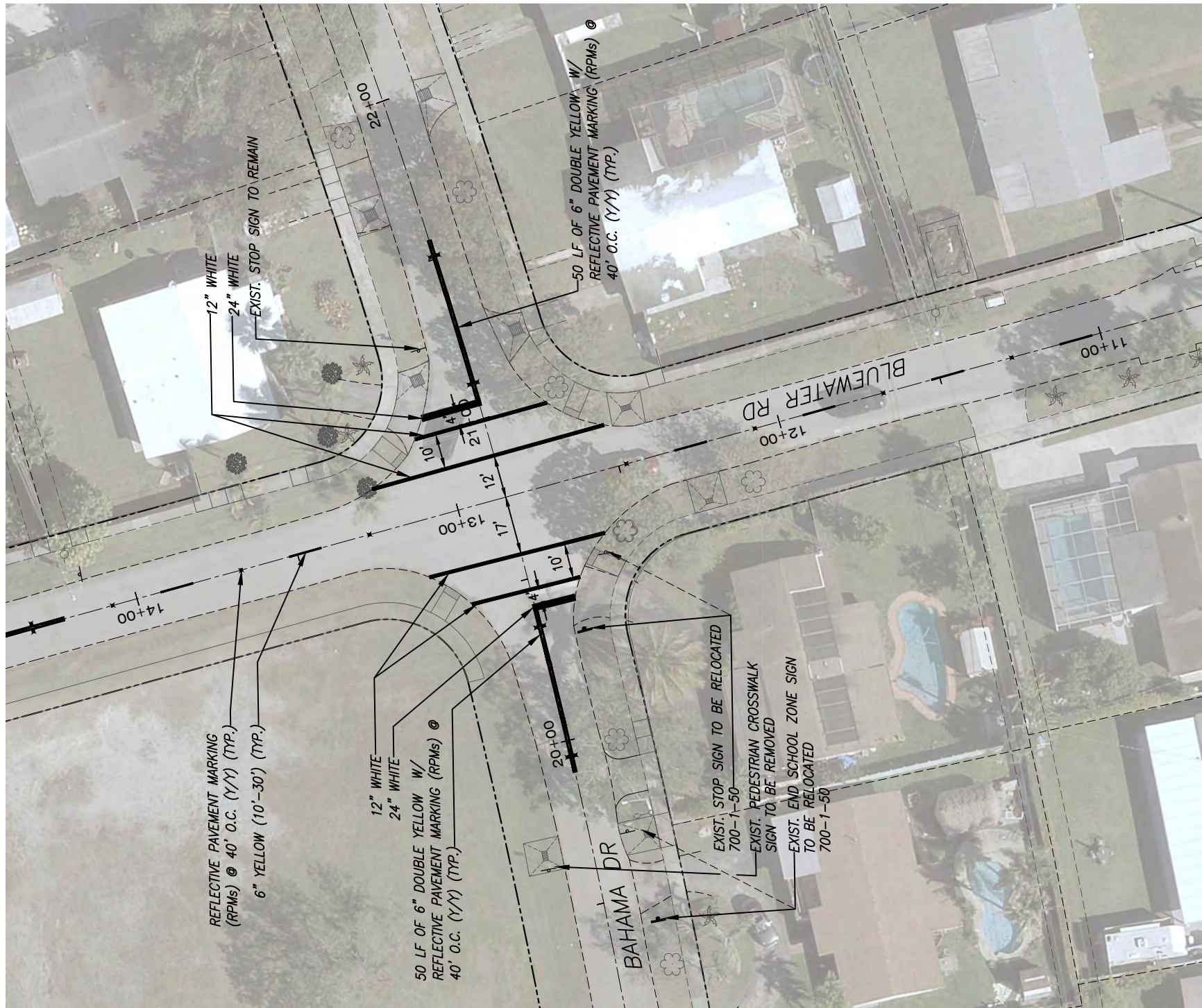
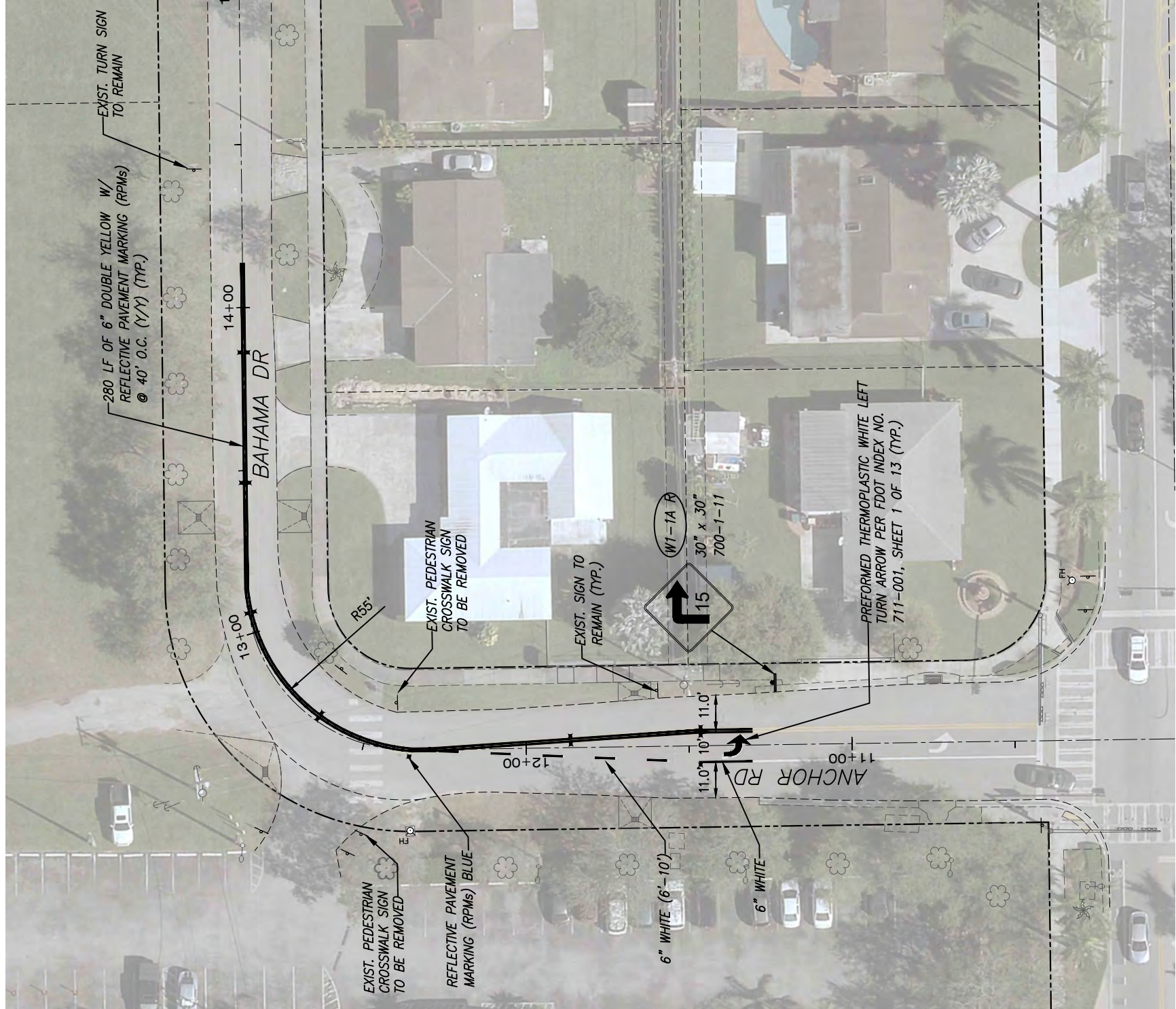
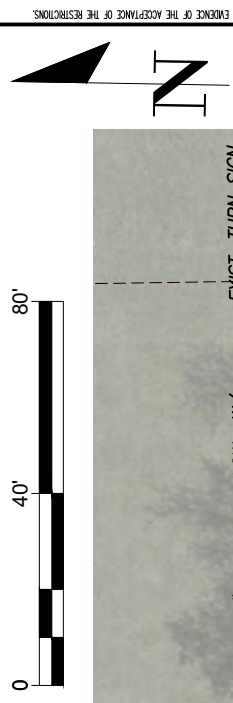




DESIGNED BY:	C.B.	SCALE:	AS SHOWN	<b>CUTLER BAY - ROADWAY &amp; DRAINAGE IMPROVEMENTS AREA # 1</b>							
DRAWN BY:	C.B.	PROJECT NO.:	2151					<b>PAVEMENT MARKING AND SIGNAGE PLANS</b>			
CHECKED BY:	J.C.F.	DWG. NO.:						SHEET: <b>C-65</b>			
DATE:	12/6/2023										
REV.	DATE	BY:	DESCRIPTION								
				CONSULTING ENGINEERS <small>5001 Southwest 74th Court, Suite 201          Miami, Florida 33155-4453          TEL: 305-662-8887 FAX: 305-662-8858          WWW.ORS-CONR.COM</small>							
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Filepath: F:\Engineering\SR9 Projects\2021\2151 - Cutler Bay Drainage Sub-Basins Roadway Improvements\Area 1\Design\2151\_PAGE\_56\_66\_PM Area 1.dwg - Plot Date: 4.8.2019





SCALE:	AS SHOWN		
PROJECT NO.:	2151		
DWG. NO.:	SHEET: C-66		
<b>PAVEMENT MARKING AND SIGNAGE PLANS</b>			
<b>CUTLER BAY - ROADWAY &amp; DRAINAGE IMPROVEMENTS AREA # 1</b>			
CUTLER BAY TOWN HALL 10720 CARIBBEAN BOULEVARD CUTLER BAY, FL 33189 PHONE: (305) 234-4262 FAX: (305) 234-4251			
5001 Southwest 74 <sup>th</sup> Court, Suite 201 Miami, Florida 33152-4453 TEL: 305-662-8887, FAX: 305-662-8858 WWW.SRS-CORP.COM			
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DESIGNED BY:	C.B.		
DRAWN BY:	C.B.		
CHECKED BY:	J.C.F.		
DATE:	12/6/2023		
REV.	DATE	BY:	DESCRIPTION

Filepath: F:\Engineering\SRSP\Projects\2021\2151 - Cutler Bay Drainage Sub-Basins Roadway Improvements\Area 1\Design\2151\_PAGE\_56\_66\_PM (Area 1).dwg - Plot Date: 4.8.2019









**COMMUNITY OFFICIALS**

- TIM MEERBOTT, MAYOR
- MICHAEL P. CALLAHAN, VICE MAYOR
- ROBERT "B.J." DUNCAN, COUNCIL MEMBER SEAT 1
- SUZY LORD, COUNCIL MEMBER SEAT 2
- RICHARD RAMIREZ, COUNCIL MEMBER SEAT 3

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**NOTES:**

- THE SCALE OF THESE PLANS MAY HAVE CHANGE DUE TO REPRODUCTION.
- ALL WORK SHALL BE PERFORMED WITHIN THE LIMITS OF EXISTING STATE / LOCAL RIGHT OF WAY, AND ALL IMPROVEMENTS SHALL BE CONSTRUCTED AND INSTALL WITHIN SAID LIMITS
- ALL ELEVATIONS REFER TO THE NATIONAL GEODETIC VERTICAL DATUM OF 1929 (NGVD-29)

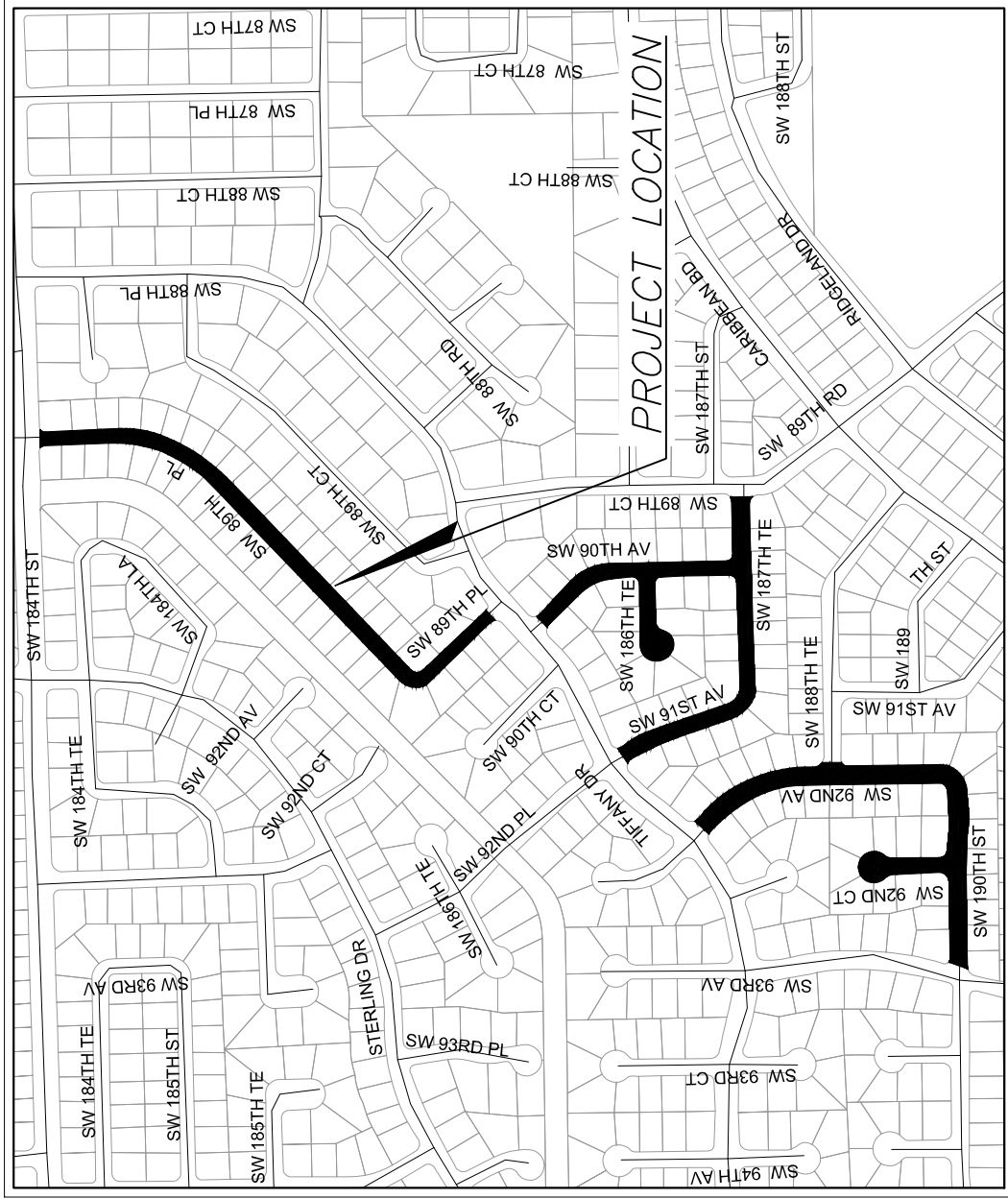
**ENGINEER'S CERTIFICATION:**

THIS PLAN WAS PREPARED UNDER MY DIRECTION AND TO THE BEST OF MY KNOWLEDGE AND BELIEF, COMPLIES WITH THE INTENT OF THE MANUAL OF UNIFORM STANDARDS FOR DESIGN, CONSTRUCTION AND MAINTENANCE OF STREETS AND HIGHWAYS AS ADOPTED BY THE STATE OF FLORIDA LEGISLATURE.

**GOVERNING STANDARDS:**

- MIAMI DADE COUNTY DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS ENGINEERING STANDARDS FOR DESIGN AND CONSTRUCTION.
- FLORIDA DEPARTMENT OF TRANSPORTATION, STANDARDS PLANS FY 2023-24, AND STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION DATED JULY 06-21-2023 (LAST UPDATED), MANUAL OF UNIFORM CONTROL DEVICE FOR STREETS AND HIGHWAYS, 2009 MUTCD WITH REVISIONS 1, 2, AND 3, JULY 2022, AS AMENDED BY CONTRACT DOCUMENTS.

# TOWN OF CUTLER BAY AREA # 2 CUTLER BAY - ROADWAY AND DRAINAGE IMPROVEMENTS

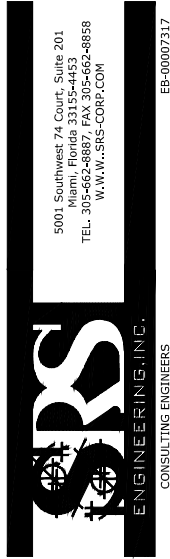


SECTION 4 - TOWNSHIP 56 SOUTH - RANGE 40 EAST

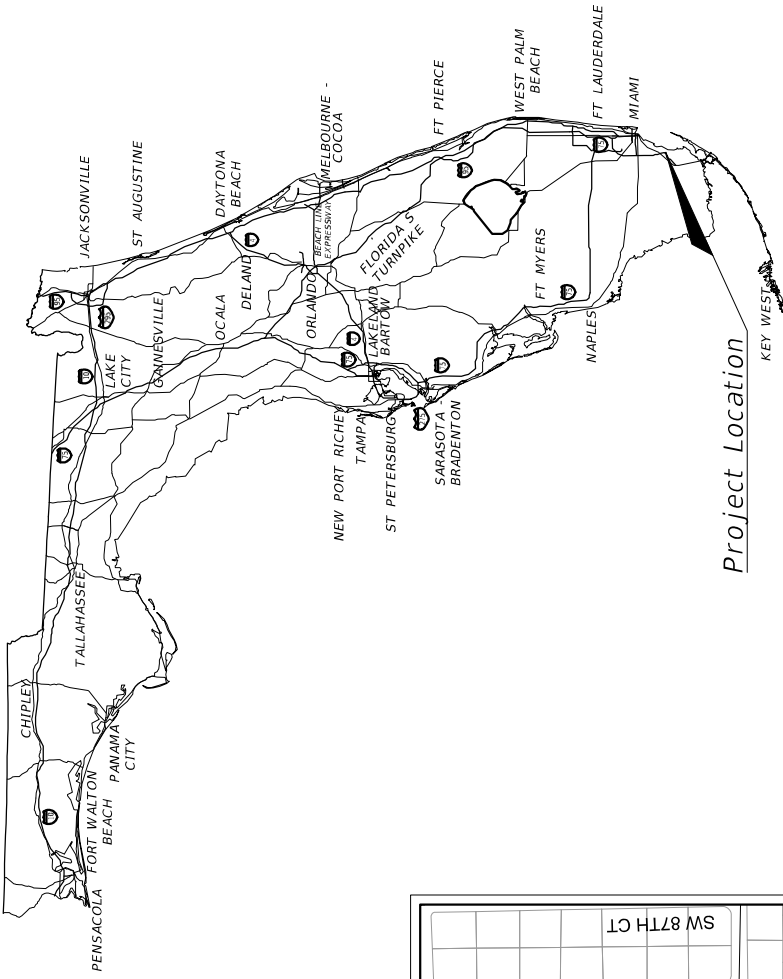
**LOCATION MAP**

SCALE : N.T.S.

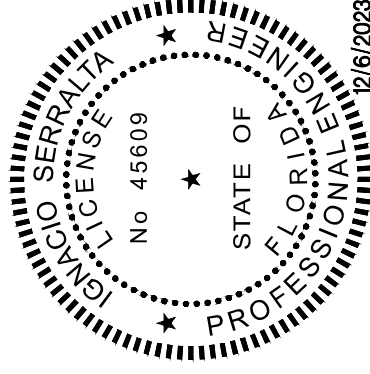
PREPARED BY:



**100% SUBMITTAL**



Project Location



THIS ITEM HAS BEEN DIGITALLY SIGNED AND SEALED BY: IGNACIO SERRALTA, P.E. ON THE DATE ADJACENT TO THE SEAL. PRINTED COPIES OF THIS DOCUMENT ARE NOT CONSIDERED SIGNED AND SEALED AND THE SIGNATURE MUST BE VERIFIED ON ANY ELECTRONIC COPIES.

**REVISIONS - SUBMITTALS**

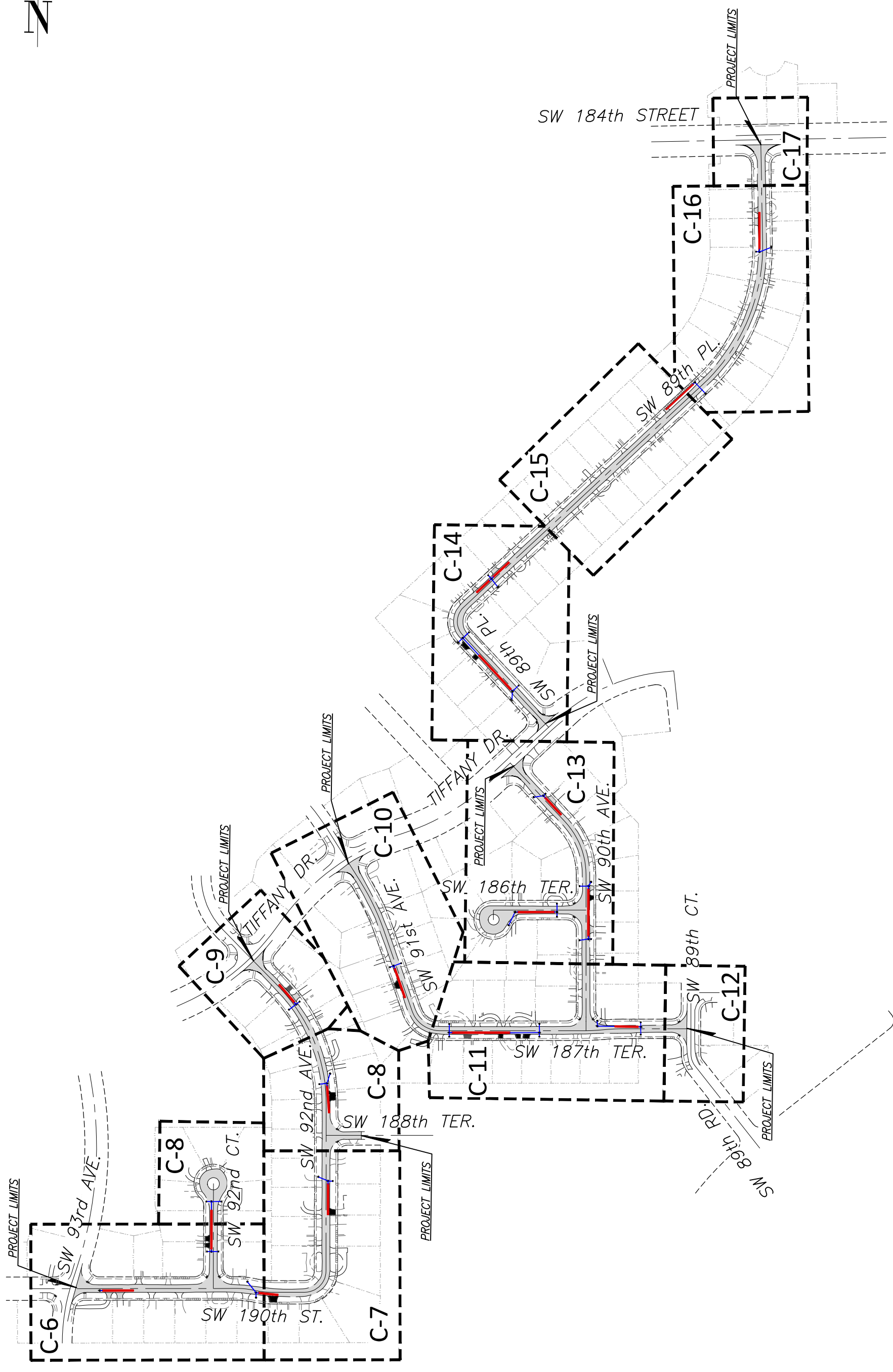
REV.	DATE	BY	DESCRIPTION

COVER SHEET

DATE: 12/6/2023 SHEET: C-1



N.T.S.



REV.	DATE	BY:	DESCRIPTION

DESIGNED BY:	C.B.
DRAWN BY:	C.B.
CHECKED BY:	J.C.F.
DATE:	12/6/2023

SEAL:	
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CUTLER BAY - ROADWAY & DRAINAGE IMPROVEMENTS AREA # 2	
PROJECT LAYOUT	

SCALE:	AS SHOWN
PROJECT NO.:	2151
DWG. NO.:	SHEET: C-2



GENERAL NOTES:

- 1 EXISTING TOPOGRAPHIC AND TREE LOCATION INFORMATION HAS BEEN OBTAINED FROM THE SURVEY PREPARED BY: HADONNE LAND SURVEYORS AND MAPPERS ON 01/13/2022.
- 2 ALL ELEVATIONS REFER TO THE NATIONAL GEODETIC VERTICAL DATUM OF 1929 (NGVD--29).
- 3 FLOOD CRITERIA ELEVATION IS 8.56 NGVD--29 (AVERAGE) FEET BASED ON MIAMI DADE COUNTY FLOOD CRITERIA MAPS. OCTOBER WATER LEVEL 2.80 NGVD--29  
<https://gis-mdc.opendata.arcgis.com/datasets/country-flood-criteria-2022/explore?location=25.58242882C-80.3341802C17.79&style=ELEV>
- 4 IN ACCORDANCE WITH THE FEDERAL EMERGENCY MANAGEMENT AGENCY (FEMA) FLOOD INSURANCE RATE MAP (FIRM) COMMUNITY PANEL No. 120218, MAP No. 0604, SUFFIX L, THIS PROJECT IS LOCATED IN FLOOD ZONE "AE" EL. 9.00 NGVD.  
<https://gis-mdc.opendata.arcgis.com/apps/miami-dade-preliminary-flood-zones-viewer/explore>
- 5 ALL PUBLIC LAND CORNERS AND MONUMENTS WITHIN THE LIMITS OF CONSTRUCTION ARE TO BE PROTECTED BY THE CONTRACTOR AS FOLLOWS: CORNERS AND MONUMENTS IN CONFLICT WITH THE WORK AND IN DANGER OF BEING DAMAGED, DESTROYED OR COVERED HAVE TO BE PROPERLY REFERENCED BY A PROFESSIONAL LAND SURVEYOR IN ACCORDANCE WITH THE MINIMUM TECHNICAL STANDARDS OF THE FLORIDA BOARD OF PROFESSIONAL LAND SURVEYORS PRIOR TO BEGINNING WORK AT THAT SITE. THE CONTRACTOR SHALL RETAIN THE LAND SURVEYOR OF REFERENCE, AND RESTORE UPON COMPLETION OF THE WORK. ALL SUCH CORNERS AND MONUMENTS AND SHALL FURNISH TO THE ENGINEER A SIGNED AND SEALED COPY OF THE LAND SURVEYOR'S REFERENCE DRAWING.
- 6 ALL BENCH MARK MONUMENTS WITHIN THE LIMITS OF CONSTRUCTION SHALL BE PROTECTED AND REFERENCED BY THE CONTRACTOR IN THE SAME WAY AS PUBLIC LAND CORNERS EXCEPT THAT THE LAND SURVEYOR SHALL NOT BE REQUIRED TO RESTORE THE BENCH MARK UPON COMPLETION OF THE WORK. THE CONTRACTOR SHALL PROMPTLY TRANSMIT ALL DISPLACED OR DAMAGED N.G.V.D. DISCS TO THE ENGINEER, WHO WILL NOTIFY THE GEODETIC INFORMATION CENTER.
- 7 ALL CONSTRUCTION ASSOCIATED WITH THIS PROJECT SHALL BE IN ACCORDANCE WITH APPLICABLE CODES & AUTHORITIES HAVING JURISDICTION, INCLUDING BUT NOT LIMITED TO THE TOWN OF CUTLER BAY PUBLIC WORKS DEPARTMENT, MIAMI-DADE DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS DEPARTMENT STANDARDS, THE FLORIDA DEPARTMENT OF TRANSPORTATION (FDOT), MIAMI-DADE COUNTY'S REGULATORY AND ECONOMIC RESOURCES (REF). ANY DISCREPANCY MUST BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE TOWN OF CUTLER BAY AND ENGINEER OF RECORD (EOR).
- 8 CONTRACTOR WILL SECURE AND PAY ALL PERMIT FEES FOR THE WORK NECESSARY TO COMPLETE THIS PROJECT. CONTRACTOR SHALL COORDINATE EFFORTS WITHIN THE CITY'S PUBLIC WORKS DEPARTMENT.
- 9 CONTRACTOR SHALL USE A STREET SWEEPER (USING WATER OR OTHER EQUIPMENT) FOR CONTROLLING AND REMOVING DUST. APPROVAL OF THE USE OF SUCH EQUIPMENT IS CONTINGENT UPON ITS DEMONSTRATED ABILITY TO DO THE WORK. CLEANING AND SWEEPING IS TO BE INCLUDED IN CONTRACTOR'S M.O.I. OR TRAFFIC PAY ITEM AND SHALL BE DONE ON A DAILY BASIS (MIN).
- 10 PERMANENT TURNOUTS AND DRIVEWAYS CONNECTIONS TO PRIVATE PROPERTY THAT LIE OUTSIDE THE LIMITS OF RIGHT-OF-WAY AND WHERE ACCESS RIGHTS HAVE NOT BEEN ACQUIRED SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE TURNOUT DETAILS AND STANDARD SPECIFICATIONS FOR THESE PLANS. THE CONTRACTOR SHALL NOT ISOLATE ADJACENT AND/OR THE REMAINDER OF THE PROPERTY UNLESS ACCESS RIGHTS ARE ACQUIRED. ACCESS SHALL BE PROVIDED TO SUCH PROPERTY WHENEVER CONSTRUCTION INTERFERES WITH THE EXISTING MEANS OF ACCESS.
- 11 48 HOURS PRIOR TO DIGGING CONTRACTOR SHALL COORDINATE WITH ALL UNDERGROUND UTILITY SERVICE COMPANIES TO VERIFY LOCATION OF ALL UNDERGROUND UTILITIES. ADDITIONALLY, CONTRACTOR SHALL CONTACT SUNSHINE STATE ONE CALL OF FLORIDA, INC. (811) TO ASSURE THAT ALL UTILITIES HAVE BEEN IDENTIFIED.
- 12 CONTRACTOR SHALL VERIFY, PHOTOGRAPH AND INVENTORY THE EXACT LOCATION OF ALL EXISTING TREES, STRUCTURES, PAVEMENT OR OTHER FEATURES. ANY EXISTING STRUCTURE, PAVEMENT, TREE OR OTHER EXISTING FEATURE THAT IS IN CONFLICT OR DAMAGED, EXPOSED OR IN ANY WAY DISTURBED BY CONSTRUCTION PERFORMED UNDER THE CONTRACT AND PROVIDE COPIES TO THE TOWN OF CUTLER BAY AND THE ENGINEER. THEY SHALL BE RESTORED PROMPTLY TO ITS ORIGINAL CONDITION AT NO ADDITIONAL COST TO THE PROJECT.
- 13 THE LOCATION AND SIZE OF THE UTILITIES SHOWN IN THE PLANS ARE APPROXIMATE ONLY. THE EXACT LOCATION SHALL BE DETERMINED BY THE CONTRACTOR DURING CONSTRUCTION. ADDITIONAL UTILITIES MAY EXIST WHICH ARE NOT SHOWN ON PLANS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE LOCATION OF ALL EXISTING UTILITIES. THE CONTRACTOR SHALL VERIFY ALL UTILITIES BY ELECTRONIC METHODS AND BY HAND EXCAVATION IN COORDINATION WITH ALL UTILITY COMPANIES, PRIOR TO BEGINNING ANY CONSTRUCTION OPERATION, ANY AND ALL CONFLICTS OF EXISTING UTILITIES WITH PROPOSED IMPROVEMENTS MUST BE RESOLVED BY THE ARCHITECT/ENGINEER AND THE OWNER. THIS WORK BY THE CONTRACTOR SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT AND NO ADDITIONAL COMPENSATION SHALL BE ALLOWED.

- 14 THE CONTRACTOR SHALL NOTIFY THE CITY IN WRITING AT LEAST 48 HOURS PRIOR TO THE COMMENCEMENT OF CONSTRUCTION.
- 15 UNDERGROUND UTILITY INFORMATION SHOWN HEREON WAS TAKEN FROM "AS-BUILT" DATA PROVIDED BY THE VARIOUS UTILITY COMPANIES AND SUPPLEMENTED BY FIELD MEASUREMENTS WHEN OBTAINABLE.
- 16 CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING A PROPER STAGING AREA APPROVED BY THE TOWN OF CUTLER BAY. STOCKPILING OF MATERIAL IN ROADWAY IS NOT ALLOWED.
- 17 UTILITIES NEEDED TO BE ADJUSTED WILL BE ADJUSTED BY OTHERS. CONTRACTOR WILL BE RESPONSIBLE FOR SCHEDULING THESE ADJUSTMENTS WITH THE UTILITY COMPANY.
- 18 THE CONTRACTOR SHALL REQUEST THE LOCATION OF ANY WATER, SEWER OR GAS LATERALS NOT SHOWN IN THE PLANS SERVICING PROPERTIES ADJACENT TO THE PROJECT BEFORE EXCAVATING, THE ADDITIONAL COST OF EXCAVATING AROUND THE LATERALS SERVICING SAID PROPERTIES SHALL BE INCLUDED IN HIS BID.
- 19 THE CONTRACTOR IS TO USE CAUTION WHEN WORKING, SPECIALLY IN OR AROUND AREAS OF OVERHEAD TRANSMISSION LINES AND UNDERGROUND UTILITIES.
- 20 ANY WATER AND SEWER LINES TO BE ADJUSTED SHALL BE APPROVED BY THE MIAMI-DADE DEPARTMENT OF WATER AND SEWER. THE CONTRACTOR SHALL NOTIFY THE TOWN OF CUTLER BAY FOR ANY CONFLICTS DURING CONSTRUCTION FOR ANY IMPROVEMENTS SHOWN ON THE DRAWINGS
- 21 ALL EXISTING ROCK BASE MATERIAL WHICH IS REMOVED IS TO BE INCORPORATED IN THE STABILIZED PORTION OF THE SUBGRADE, AS DIRECTED BY THE ENGINEER.
- 22 NONE OF THE EXISTING ROCK BASE THAT IS REMOVED IS TO BE INCORPORATED INTO THE PROPOSED LIMEROCK BASE
- 23 ALL DISPOSAL OF EXCESS AND UNSUITABLE EXCAVATED MATERIAL, DEMOLITION, VEGETATION, RUBBISH AND DEBRIS SHALL BE MADE OUTSIDE THE LIMITS OF CONSTRUCTION AT A LEGAL DISPOSAL SITE PROVIDED BY THE CONTRACTOR AT HIS/HER OWN EXPENSE. WITH THE PRIOR APPROVAL OF THE ENGINEER. MATERIAL CLEARED FROM THE SITE SHALL NOT BE DEPOSITED ON ADJACENT AND/OR NEARBY PROPERTY.
- 24 ALL EXCESS MATERIALS AS DESIGNATED BY THE ENGINEER ARE TO BE DISPOSED OF BY THE CONTRACTOR IN AREAS PROVIDED BY HIM AND AT THE CONTRACTOR'S EXPENSE.
- 25 ALL DRAINAGE CONSTRUCTION SHALL BE IN STRICT ACCORDANCE WITH THE REQUIREMENTS OF TOWN OF CUTLER BAY AND MIAMI-DADE COUNTY DEPARTMENT OF REGULATORY AND ECONOMIC RESOURCES (REF).
- 26 CONTRACTOR TO PROTECT EXISTING INLETS AND DRAINAGE COMPONENTS, ADJACENT TO CONSTRUCTION, THAT MAY BE SILTED OR EXPOSED TO DEBRIS, DURING CONSTRUCTION. INLETS AND OTHER DRAINAGE COMPONENTS THAT ARE SILTED OR FULL OF DEBRIS AFTER CONSTRUCTION TO BE DESILTED/CLEANED BY CONTRACTOR PRIOR TO FINAL INSPECTION AND ACCEPTANCE.
- 27 ALL GRASS AREAS AFFECTED BY CONSTRUCTION SHALL BE RESODDED.
- 28 ALL UNSUITABLE MATERIAL UNDER THE PAVEMENT SHALL BE REMOVED AND REPLACED WITH ACCEPTABLE MATERIALS BEFORE PROCEEDING WITH CONSTRUCTION.
- 29 ALL MUCK AND ORGANIC MATERIALS FOUND WITHIN THE CONSTRUCTION AREA SHALL BE REMOVED AND REPLACED WITH CLEAN FILL MATERIAL IN 6 INCH LIFTS COMPACTED TO NOT LESS THAN 95% MAXIMUM DENSITY AT OPTIMUM MOISTURE IN ACCORDANCE WITH AASHTO T-180.
- 30 THE CONTRACTOR SHOULD TAKE SPECIAL NOTE OF THE SOIL CONDITIONS THROUGHOUT THIS PROJECT. ANY SPECIAL SHORING, SHEETING OR OTHER PROCEDURES NECESSARY TO PROTECT ADJACENT PROPERTY, EITHER PUBLIC OR PRIVATE, DURING EXCAVATION OF SUBSOIL MATERIAL AND EXFILTRATION TRENCH OR DURING THE FILING OF ANY AREA, OR FOR ANY OPERATION DURING CONSTRUCTION SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR, THE ONLY EXCEPTION WILL BE THE PROTECTION OF UTILITIES. ALL UTILITIES SHALL BE MAINTAINED BY THE OWNER OF THE UTILITY.
- 31 ANY PUBLIC OR PRIVATE PROPERTY DAMAGED BY CONTRACTOR AT ANY TIME DURING CONSTRUCTION SHALL BE REPLACED OR REPAIRED TO ORIGINAL CONDITION, AT NO EXPENSE TO THE OWNER OR THE TOWN OF CUTLER BAY.
- 32 EXISTING CHAIN LINK FENCE, CONCRETE WALL AND METAL FENCE WITHIN THE LIMITS OF CONSTRUCTION SHALL BE PROTECTED UNLESS OTHERWISE INDICATED.
- 33 CONTRACTOR SHALL ADJUST ALL EXISTING VALVES BOXES, CATCH BASINS GRATES, MANHOLES COVERS, ETC. TO MEET NEW GRADES WHERE APPLICABLE.
- 34 ALL VALVES, A.R.V.'S, AND MANHOLES TO BE RAISED AND ADJUSTED TO PROPOSED ROADWAY ELEVATION.
- 35 SODDING TO BE USED AT LOCATIONS WHERE EXISTING LAWNS ARE DISTURBED OR AS DIRECTED BY THE ENGINEER.

- 36 ALL TREES ARE TO REMAIN, UNLESS OTHERWISE DIRECTED BY THE ENGINEER. CONTRACTOR MUST TAKE CARE NOT TO DAMAGE ANY TREE OR PALM WITHIN CONSTRUCTION AREA. SMALL TREES OR PALMS MAY BE RELOCATED AS DIRECTED BY THE TOWN OF CUTLER BAY. TREE PERMIT MUST BE OBTAINED PRIOR TO CONSTRUCTION. THERE ARE LARGE TREES WITH EXTENSIVE ROOT NETWORKS ON THE GROUND THAT ARE IMPACTING ADJACENT SIDEWALKS, CURBS AND PAVEMENT. THE CONTRACTOR SHALL BE REQUIRED TO COORDINATE WITH AN ARBORIST TO ENSURE THAT ROOT AND TREE PRUNING ACTIVITIES ARE CONDUCTED IN A MANNER THAT IT DOES NOT HARM OR DESTROY THE TREE.
- 37 RADI ON CURB RETURNS ARE TO THE EDGE OF PAVEMENT UNLESS OTHERWISE NOTED.
- 38 PROVIDE A SMOOTH TRANSITION WHERE NEW PAVEMENT, SIDEWALK, OR CURB MEETS EXISTING GRASS AREAS.
- 39 PRIOR TO REMOVAL AND/OR RELOCATION OF EXISTING TREES, IF REQUIRED, THE CONTRACTOR MUST OBTAIN APPROVAL FROM THE TOWN OF CUTLER BAY AS WELL AS D.E.R.M. OTHERWISE CONTRACTOR SHALL PROTECT EXISTING TREES WHERE APPLICABLE WITHIN THE LIMITS OF CONSTRUCTION
- 40 WHERE NEW PAVEMENT MEETS EXISTING CONNECTION SHALL BE MADE IN A NEAT STRAIGHT LINE AND FLUSH WITH EXISTING PAVEMENT. SAW CUT AT EXISTING PAVEMENT JOINT MATCHING TO NEW PAVEMENT.
- 41 ANY DISCREPANCY FOUND BETWEEN THE PLANS AND THE QUANTITIES SHEET MUST BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE MUNICIPALITY/COUNTY AND ENGINEER OF RECORD (EOR). AN R.F.I. MUST BE PROVIDED AND SHOULD OUTLINE THE SPECIFIC ISSUE OR DISCREPANCY. PROVIDE SUPPORTING DOCUMENTATION OR EVIDENCE, AND SEEK CLARIFICATION OR APPROVAL BEFORE PROCEEDING WITH THE PROJECT/TASK.

DRAINAGE

- 1 CONTRACTOR SHALL KEEP NEW AND EXISTING INLETS CLEAN OF PAVING MATERIALS AND DEBRIS. INLETS LOCATED NEAR CONSTRUCTION ACTIVITIES SHOULD BE PROTECTED BY APPROPRIATE EROSION CONTROL DEVICES.
- 2 THERE SHALL BE NO MORE THAN 3 LATERAL DRAINAGE INSTALLATION WITHOUT BACKFILLING. LATERAL DRAINAGE SHALL NOT LAG MORE THAN 72 HOURS BEHIND THE START OF EXCAVATION.
- 3 GRADES SHOWN ARE "FINISHED" GRADES.
- 4 DRAINAGE SYSTEM SHALL BE CLEANED AND DESILTED PRIOR TO PW FINAL INSPECTION APPROVAL.
- 5 EXISTING STRUCTURES AND PIPES TO REMAIN WITHIN LIMITS OF CONSTRUCTION SHALL BE VACUUM CLEANED.
- 6 ANY EXISTING DRAINAGE COMPONENTS TO REMAIN THAT ARE DAMAGED AS A RESULT OF THE CONSTRUCTION ARE TO BE RESTORED TO EXISTING EQUIVALENT OR BETTER CONDITIONS AT THE CONTRACTOR'S EXPENSE.

PRE-CONSTRUCTION RESPONSIBILITIES

- 1 PRIOR TO THE COMMENCEMENT OF THE CONSTRUCTION AND THE RECEIPT OF THE "NOTICE TO PROCEED" THE CONTRACTOR SHALL CONTACT THE TOWN OF CUTLER BAY AND ARRANGE A PRE-CONSTRUCTION CONFERENCE TO INCLUDE THE ENGINEER OF RECORD. THE CONTRACTOR SHALL SUBMIT A CONSTRUCTION SCHEDULE AND BE PREPARED TO DISCUSS ANY CONCERNS OR COORDINATION EFFORTS AND REQUIREMENTS WITH THE PARTIES INVOLVED.
- 2 THE CONTRACTOR SHALL OBTAIN A SUNSHINE STATE ONE CALL OF FLORIDA, INC. CERTIFICATION NUMBER AT LEAST 48 HOURS PRIOR TO BEGINNING ANY EXCAVATION. CONTACT 811, WWW.SUNSHINE811.COM

PROJECT RECORD DOCUMENTS

- 1 DURING THE DAILY PROGRESS OF THE JOB THE CONTRACTOR SHALL RECORD THE EXACT LOCATION, LENGTH, AND ELEVATION OF ALL PROPOSED IMPROVEMENTS ON HIS SET OF CONSTRUCTION DRAWINGS.
- 2 UPON COMPLETION OF CONSTRUCTION AND PRIOR TO FINAL PAYMENT, THE CONTRACTOR SHALL SUBMIT TO THE ENGINEER TWO COMPLETE SETS OF ALL "AS-BUILT" CONSTRUCTION DRAWINGS, THE DRAWINGS SHALL INCLUDE CHANGES AND DIMENSIONS, LOCATIONS AND ELEVATIONS OF ALL IMPROVEMENTS AND SHALL BE IN ACCORDANCE WITH THE "SURVEY WORK" SECTION OF THE "SPECIFICATIONS AND CONTRACT DOCUMENTS" FOR THIS PROJECT.
- 3 ALL "AS-BUILT" INFORMATION AND ELEVATIONS SHALL BE CERTIFIED BY A FLORIDA REGISTERED LAND SURVEYOR AND ALL FINAL MEASUREMENTS ARE TO BE IN THE FORM OF FIELD NOTES, PLANS AND CD (PDF FORMAT).

DESIGNED BY:	G.B.		
DRAWN BY:	G.B.		
CHECKED BY:	J.C.F.		
DATE:	12/6/2023		
REV.	DATE	BY:	DESCRIPTION



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10720 CARIBBEAN  
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**CUTLER BAY - ROADWAY & DRAINAGE IMPROVEMENTS AREA # 2**

**GENERAL NOTES**

SCALE:	AS SHOWN
PROJECT NO.:	2151
DWG. NO.:	
SHEET:	C-3.0



UTILITIES

- 1 TWO FULL BUSINESS DAYS (48 HOURS) PRIOR TO DIGGING, THE CONTRACTOR SHALL CONTACT 811, WWW.SUNSHINE811.COM TO REQUEST UTILITY LOCATIONS BEFORE BEGINNING ANY CONSTRUCTION ACTIVITIES.
- 2 EXISTING UTILITIES SHALL BE MAINTAINED IN SERVICE DURING CONSTRUCTION UNLESS OTHERWISE APPROVED BY THE UTILITY OWNER. ALL EXISTING UTILITIES ARE TO REMAIN UNLESS OTHERWISE NOTED.
- 3 IT SHALL BE THE CONTRACTOR'S SOLE RESPONSIBILITY TO (VERTICALLY AND HORIZONTALLY) PROTECT ALL EXISTING UTILITIES ON THIS PROJECT. ANY DAMAGE TO UTILITIES SHALL BE IMMEDIATELY REPORTED TO THE UTILITY OWNER. THE OWNER RESERVES THE RIGHT TO REMEDY SUCH DAMAGE BY ORDERING OUTSIDE PARTIES TO MAKE SUCH REPAIRS AT THE EXPENSE TO THE CONTRACTOR.
- 4 THE CONTRACTOR IS ADVISED THAT PROPERTIES ADJACENT TO THE PROJECT HAVE ELECTRIC, TELEPHONE, GAS, WATER AND/OR SEWER SERVICE LATERALS WHICH MAY NOT BE SHOWN IN PLANS. THE CONTRACTOR MUST REQUEST THE LOCATION OF THESE LATERAL SERVICES FROM THE UTILITY COMPANIES. THE ADDITIONAL COST OF EXCAVATING, INSTALLING, BACKFILLING AND COMPACTING AROUND THESE LATERAL SERVICES MUST BE INCLUDED IN THE BID RELATED ITEM FOR THE WORK BEING DONE.
- 5 UTILITY OWNERS:  
 - ATLANTIC BROADBAND 786-251-5989 - FLORIDA POWER & LIGHT 386-586-6403  
 - COMCAST CABLE 954-447-8405 - LEVEL 3 COMMUNICATIONS 786-256-1554  
 - FLORIDA CITY GAS 786-575-8547 - M-D WATER & SEWER 786-288-5320  
 - PUBLIC WORKS & TRAFFIC 786-345-0986 - AT&T 561-997-0240

ENVIRONMENTAL NOTES

- 1 DUE TO THE LIMITED SCOPE OF WORK, NO IMPACTS TO EXISTING HISTORICAL AND CULTURAL RESOURCES ARE EXPECTED AS A RESULT OF THE PROPOSED ACTION.
- 2 NO STAGING OR OTHER ACTIVITIES FOR THIS PROJECT SHOULD OCCUR WITHIN THE DRIPLINE OF EXISTING TREES.
- 3 PREVENT DAMAGING TREES AND PLANTERS WITHIN OR IMMEDIATELY ADJACENT TO THE PROJECT'S RIGHT-OF-WAY.
- 4 AN ARBORIST CERTIFIED BY THE INTERNATIONAL SOCIETY OF ARBORICULTURE SHALL BE PRESENT ON SITE TO MONITOR CONSTRUCTION ACTIVITIES NEAR EXISTING TREES AND DIRECT ALL ROOT PRUNING AND/OR CANOPY TRIMMING ACTIVITIES.
- 5 TREE PROTECTION SHOULD BE INSTALLED AROUND TREES TO REMAIN LOCATED ADJACENT TO CONSTRUCTION ACTIVITIES PER FDOT STANDARDS PLANS FY 2023-24, INDEX 110-100
- 6 THE CONTRACTOR SHALL NOT REMOVE, RELOCATE OR PRUNE ANY TREES WITHOUT PRIOR APPROVAL FROM THE TOWN. THE CONTRACTOR SHALL OBTAIN ALL REQUIRED PERMITS FROM THE TOWN OF CUTLER BAY PUBLIC WORKS DEPARTMENT PRIOR TO ANY TREE REMOVAL/RELOCATION.
- 7 CONTRACTOR SHALL REMOVE/CONTROL DUST USING WATER OR OTHER EQUIPMENT CAPABLE OF CONTROLLING DUST.
- 8 THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING A DERM CLASS V DEWATERING PERMIT IF DEWATERING IS PROPOSED.

TRAFFIC CONTROL PLANS

- 1 TRAFFIC CONTROLS SHALL BE IN ACCORDANCE WITH THE PROJECT PLANS, THE CURRENT EDITION OF THE FDOT, STANDARDS PLANS FY 2023-24 (102 SERIES), THE STANDARD SPECIFICATION FOR ROAD AND BRIDGE CONSTRUCTION, AND 2009 (MUTCD) MANUAL OF UNIFORM CONTROL DEVICE FOR STREETS AND HIGHWAYS, EDITION WITH REVISION NUMBERS 1, 2, AND 3, DATED JULY 2022
- 2 NOTIFICATION OF LANE CLOSURES OR TEMPORARY DETOURS SHALL BE ACCOMPLISHED 14 WORKING DAYS PRIOR TO CLOSURE. DETOUR OR MOT PHASE CHANGE SHALL BE SUBMITTED WITH THE REQUIRED LANE CLOSURE FORM, SKETCHES, CALCULATIONS, AND OTHER DATA TO PUBLIC WORKS DEPT.
- 3 AT THE DISCRETION OF THE ENGINEER, IF A LANE CLOSURE CAUSES EXTENDED CONGESTION OR DELAY, THE CONTRACTOR SHALL BE DIRECTED TO REOPEN THE CLOSED LANE(S) UNTIL SUCH TIME THAT THE TRAFFIC FLOW HAS RETURNED TO AN ACCEPTABLE LEVEL.
- 4 THE TRAFFIC AND TRAVEL WAYS SHALL NOT BE ALTERED BY THE CONTRACTOR TO CREATE A WORK ZONE UNTIL ALL LABOR AND MATERIAL ARE AVAILABLE FOR THE CONSTRUCTION IN THAT AREA.
- 5 LANE CLOSURE SHALL OCCUR ONLY DURING NON-PEAK HOURS ON NON-EVENT DATES/NIGHTS/WEEKENDS. NON PEAK HOURS 9:00 AM TO 3:30 PM WEEKDAYS AND SATURDAYS. EXCEPTIONS MAY BE GRANTED UPON WRITTEN REQUEST TO THE CITY.
- 6 TRAFFIC CONTROL PLANS FOR ALL PHASES ARE DESIGNED FOR NON-PEAK HOURS ONLY. THE CONTRACTOR SHALL KEEP ALL EXISTING LANES OPEN DURING PEAK HOURS IN THESE PHASES.

SEAL:

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ES-00007317

- 7 AS DETERMINED BY THE ENGINEER, THE CONTRACTOR SHALL COVER WORK ZONE SIGNS WHEN CONDITIONS NO LONGER WARRANT THEIR USE. COST OF COVERING AND UNCOVERING THE SIGNS SHALL BE INCLUDED IN MAINTENANCE OF TRAFFIC PAY ITEM.
- 8 CONTRACTOR SHALL BE RESPONSIBLE FOR THE IMMEDIATE REMOVAL OF STORM WATER FROM ROADWAYS UTILIZED FOR MAINTAINING TRAFFIC IN A MANNER APPROVED BY THE ENGINEER. COST FOR REMOVING THE WATER SHALL BE INCLUDED IN MAINTENANCE OF TRAFFIC PAY ITEM.
- 9 TEMPORARY LANE TRANSITIONS, SHIFTS, AND CROSSOVERS SHALL HAVE SOLID LANE AND EDGE LINES FOR THE LENGTH OF THE TRANSITION, SHIFT OR CROSSOVER. IN ADDITION, SOLID LANE AND EDGE LINES SHALL EXTEND 100 FT ON TANGENT BEYOND EACH END OF THE TRANSITION, SHIFT, OR CROSSOVER. EXCEPTION SHALL BE THROUGH INTERSECTIONS WHERE 2 FT TO 4 FT SKIP LINES WILL BE PLACED.
- 10 ALL TEMPORARY STRIPES AND MARKINGS SHALL BE PAINT ONLY, UNLESS OTHERWISE SPECIFIED ON THE PLANS OR APPROVED BY THE ENGINEER. COST OF TEMPORARY STRIPING SHALL BE INCLUDED IN MOT PAY ITEM.
- 11 EACH EXISTING STREET NAME AND STOP SIGN AFFECTED BY CONSTRUCTION SHALL BE RELOCATED AND MAINTAINED IN AN APPROPRIATE LOCATION FOR THE DURATION OF THE PROJECT. WHEN NO LONGER AFFECTED BY CONSTRUCTION, THESE SIGNS SHALL BE RESTORED TO THEIR ORIGINAL POSITION. COST OF TEMPORARILY RELOCATING AND RESTORING THE SIGNS SHALL BE INCLUDED IN MAINTENANCE OF TRAFFIC PAY ITEM.
- 12 FOR DROP OFFS, THE CONTRACTOR'S SHALL FOLLOW TO THE FDOT, STANDARDS PLANS FY 2023-24 INDEX NO. 102-600 SHEET 8 OF 11. THE CONTRACTOR SHALL USE SHOULDER TREATMENT DETAIL WHEN NO BARRIERS ARE REQUIRED IN THE PLANS
- 13 CONTRACTOR SHALL PREPARE AND SUBMIT AN ACCEPTABLE MOT PLAN FOR THE PROJECT. THE MOT PLAN SHALL BE SUBMITTED TO THE TOWN OF CUTLER BAY'S PUBLIC WORKS DEPARTMENT FOR REVIEW AND APPROVAL.
- 14 LANE CLOSURES SHALL NOT BE PERMITTED DURING SCHOOL SPEED ZONE HOURS WHERE SUCH CLOSURES WILL AFFECT TRAFFIC FLOW IN THE VICINITY OF THE SCHOOL SPEED ZONES.

WORK ZONE LIMITS

- 1 THE LENGTH OF AN OPEN TRENCH SHALL NOT EXCEED 500 FT. PROPERTY ACCESS SHALL BE MAINTAINED IN ACCORDANCE TO ARTICLE 102- 5.5 OF THE FDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION LATEST EDITION.
- 2 NO MORE THAN TWO BLOCKS OF STREET SHALL BE UNDER CONSTRUCTION AT A TIME AND ALL WORK AND RESTORATION SHALL BE COMPLETED ON ONE OF SUCH BLOCKS BEFORE WORK MAY BEGIN IN A NEW BLOCK. FINAL RESURFACING SHALL BE PLACED WITHIN 48 HOURS OF THE MILLING OPERATION.

INTERSECTIONS

- 1 ADJACENT INTERSECTIONS SHALL NOT BE CONSTRUCTED SIMULTANEOUSLY UNLESS DIRECTED BY THE ENGINEER
- 2 INTERSECTIONS SHALL BE RECONSTRUCTED WORKING ON A CONTINUOUS DAILY BASIS UNTIL COMPLETE AND UNTIL THE STRUCTURAL COURSE IS PLACED.
- 3 M.O.T. TRANSITIONS AND TEMPORARY INTERSECTION CROSSOVERS WHERE CONSTRUCTION HAS CAUSED GRADE DIFFERENCES BETWEEN THE EXISTING AND NEW ROADWAYS SHALL BE CONSTRUCTED USING A 1:20 TYPE SP ASPHALT CONCRETE SLOPE TO ACCOMMODATE VEHICULAR TRAFFIC FROM ANY DIRECTION. ALL MATERIAL AND WORK, INCLUDING ITS REMOVAL, SHALL BE INCLUDED IN MAINTENANCE OF TRAFFIC PAY ITEM.

PEDESTRIANS, BICYCLES, AND WHEELCHAIRS

- 1 AT THE END OF EACH WORK DAY OR WHENEVER THE WORK ZONE BECOMES INACTIVE, ANY DROP OFF GREATER THAN 6 IN. ADJACENT TO THE PEDESTRIAN, BICYCLE, AND WHEELCHAIR TRAVEL PATHS SHALL BE BACKFILLED FLUSH WITH THE SAID PATHS OR PROTECTED WITH TEMPORARY FENCE. CONCRETE BARRIER WALL OR APPROVED HANDRAIL. COST SHALL BE INCLUDED IN THE PAY ITEM 102-1, MAINTENANCE OF TRAFFIC.
- 2 CONSTRUCTION ACTIVITIES THAT INVOLVES SIDEWALKS ON BOTH SIDES OF THE STREET ARE NOT ALLOWED UNLESS APPROVED BY THE ENGINEER.

SIGNING AND PAVEMENT MARKINGS

- 1 ALL SIGNING AND PAVEMENT MARKINGS SHALL CONFORM WITH THE CURRENT EDITION OF THE FDOT, STANDARDS PLANS FY 2023-24, THE 2023 FDOT DESIGN MANUAL, AND 2009 (MUTCD) MANUAL OF UNIFORM CONTROL DEVICE FOR STREETS AND HIGHWAYS
- 2 ALL EXISTING SIGNS ARE TO REMAIN UNLESS OTHERWISE SPECIFIED. BEFORE STARTING THE PROJECT, THE CONTRACTOR WILL REVIEW EXISTING SIGNS SHOWN ON THE PLANS TO BE RELOCATED OR TO REMAIN. THE CONTRACTOR WILL NOTIFY IN WRITING TO THE PROJECT ENGINEER OF ANY MISSING SIGNS BEFORE CONSTRUCTION STARTS. SIGNS DAMAGED BY THE CONTRACTOR'S OPERATIONS WILL BE REPLACED AT NO COST TO THE DEPARTMENT. IF EXISTING SIGNS TO BE RELOCATED HAVE A DAMAGED POLE OR A POLE NOT MEETING HEIGHT SPECIFICATION REQUIREMENTS, THE COST OF A NEW POLE WILL BE INCLUDED IN THE RELOCATION BID ITEM.

- 3 ALL PAVEMENT MARKINGS, MESSAGES, AND ARROWS SHALL BE THERMOPLASTIC UNLESS OTHERWISE NOTED.
- 4 REFLECTIVE PAVEMENT MARKERS ARE TO BE PLACED AS INDICATED
- 5 MATCH EXISTING PAVEMENT MARKINGS AT THE BEGINNING AND AT THE END OF THE PROJECT AND AT ALL SIDE STREETS WITHOUT JOGS OR OFFSETS.
- 6 THE CONTRACTOR SHALL REMOVE EXISTING MARKINGS BY FDOT APPROVED METHOD WITHOUT DAMAGE TO THE FRICTION COURSE.
- 7 SIGN ASSEMBLY LOCATIONS SHOWN ON PLANS WHICH ARE IN CONFLICT WITH LIGHTING, UTILITIES, DRIVEWAYS, WHEELCHAIR RAMPS, ETC. MAY BE ADJUSTED SLIGHTLY AS DIRECTED BY THE ENGINEER. EXTREME LOCATION CHANGES MUST BE APPROVED BY MIAMI-DADE SIGNALS AND SIGNS DIVISION.
- 8 THE CONTRACTOR SHALL RELOCATE ALL EXISTING POST-MOUNTED STREET NAME AND STOP SIGNS TO A VISIBLE AREA UNDISTURBED BY THE CONSTRUCTION SO AS TO MINIMIZE DAMAGE TO THE SIGNS. NEW STREET NAME SIGNS WILL BE ATTACHED AT THE TOP OF THE NEW STOP SIGNS ON MINOR SIDE STREETS AT THE END OF CONSTRUCTION.
- 9 EXTRUDED ALUMINUM SIGN SUPPORT CLAMPS ARE NOT ACCEPTABLE. ALL RELOCATED SIGNS MUST COMPLY WITH THE FDOT, STANDARDS PLANS FY 2023-24, INDEX 700-010 AS IF THEY WERE NEW SIGNS. IF EXISTING CLAMPS, BRACKETS, POLES, ETC. NEED TO BE REPLACED THE COST SHALL BE INCLUDED IN THE RELOCATION PAY ITEM.
- 10 REFLECTIVE PAVEMENT MARKERS AS PER FDOT STANDARD INDEX NO 706-001
- 11 NEW STREET NAME SIGNS SHALL BE PER MIAMI DADE COUNTY STANDARDS AND MUTCD.

**CUTLER BAY - ROADWAY & DRAINAGE IMPROVEMENTS AREA # 2**

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DRAWN BY: G.B.  
CHECKED BY: J.C.F.  
DATE: 12/6/2023

REV.	DATE	BY:	DESCRIPTION
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SCALE: AS SHOWN  
PROJECT NO.: 2151  
DWG. NO.:  
SHEET: C-3.1

**GENERAL NOTES**



**ABBREVIATIONS:**

BLDG.	=	BUILDING
C.B.	=	CATCH BASIN
℄	=	BASE LINE
⊕	=	CENTER LINE
C.O.	=	CLEANOUT
CONC.	=	CONCRETE
CONN.	=	CONNECTION
CONT.	=	CONTINUATION
CONST.	=	CONSTRUCT
DET.	=	DETAIL
D.I.P.	=	DUCTILE IRON PIPE
EXIST.	=	EXISTING
F.F.E.	=	FINISHED FLOOR ELEVATION
F.H. / FH	=	FIRE HYDRANT
F.M. / FM	=	FORCE MAIN
H.D.P.E.	=	HIGH DENSITY POLYETHYLENE
HORIZ.	=	HORIZONTAL
INV.	=	INVERT
L.F.	=	LINEAR FEET
M-DWASD	=	MIAMI-DADE WATER AND SEWER DEPT.
M-DPW	=	MIAMI DADE PUBLIC WORKS
M.E.G.	=	MATCH EXISTING GRADE
MIN.	=	MINIMUM
P.I.V.	=	POST INDICATOR VALVE
P.G.P.	=	PROPOSED GRADING POINT
P.G.L.	=	PROPOSED GRADING LINE
P/L, ℄	=	PROPERTY LINE
PROP.	=	PROPOSED
SAN.	=	SANITARY SEWER
R/W, ROW	=	RIGHT OF WAY
SEC.	=	SECTION
SERV.	=	SERVICE
S/L, ⊕	=	SECTION LINE
STA.	=	STATION
STD.	=	STANDARD
SWK.	=	SIDEWALK
T.O.P.	=	TOP OF PIPE
U.S.F.	=	US FOUNDRY
VERT.	=	VERTICAL
W.M. / WM	=	WATER MAIN
W.S.	=	WATER SERVICE
T.B.F.V.	=	TO BE FIELD VERIFIED

**UTILITIES LEGEND:**

— WM —	—	WM	—	EXISTING WATER MAIN (UNDERGROUND)
— SAN —	—	SAN	—	EXISTING SANITARY SEWER MAIN (UNDERGROUND)
— FO —	—	FO	—	EXISTING COMMUNICATION CONDUIT (UNDERGROUND)
— E —	—	E	—	EXISTING F.P.L. CONDUIT (UNDERGROUND)
— [ —	—		—	EXISTING EXFILTRATION DRAIN (UNDERGROUND)
— OUL —	—	OUL	—	EXISTING F.P.L. CONDUIT (OVERHEAD)
— [ / —	—		—	PROPOSED EXFILTRATION DRAIN (UNDERGROUND)
— [ —	—		—	PROPOSED SOLID DRAINAGE PIPE (UNDERGROUND)
— (S-#) —	—		—	PROPOSED DRAINAGE STRUCTURE (INLET/M.H.) ID
— (EX-#) —	—		—	EXISTING DRAINAGE STRUCTURE (INLET) ID
— FM —	—	FM	—	EXISTING FORCE MAIN (UNDERGROUND)
[ ]	—		—	EXISTING CATCH BASIN
[ ]	—		—	PROP. CATCH BASIN
[ ]	—		—	PROP. DRAINAGE MANHOLE
[ ]	—		—	EXISTING DRAINAGE MANHOLE
[ ]	—		—	EXISTING SAN. SEWER MANHOLE
[ ]	—		—	EXISTING WATER MAIN VALVE BOX
[ ]	—		—	EXISTING FORCE MAIN VALVE BOX
[ ]	—		—	EXISTING WATER METER
[ ]	—		—	EXISTING ELECTRICAL PANEL/PULL BOX
[ ]	—		—	EXISTING COMMUNICATION PANEL/PULL BOX
[ ]	—		—	EXISTING FIRE HYDRANT

**ROADWAY PLANS LEGEND:**

[XX]	—	AMOUNT OF SIDEWALK FLAG TO BE REPLACED
(1)	—	EXISTING SANITARY SEWER / DRAINAGE MANHOLE TO BE ADJUSTED BY A LICENSED CONTRACTOR
(2)	—	EXISTING WATER/FORCE MAIN/GAS VALVE BOX & LID TO BE ADJUSTED BY A LICENSED CONTRACTOR
(3)	—	EXISTING WATER METER BOX TO BE REPLACED
(4)	—	CONTINGENCY: REPLACE EXIST. CONCRETE DRIVEWAY BY 6" CONCRETE DRIVEWAY (MATCH EXIST. LAYOUT AND STAMP PATTERN)
[ ]	—	CONSTRUCT 6" CONC. SIDEWALK, HANDICAP RAMPS, DRIVEWAYS & INLET APRONS
[ ]	—	AREA TO BE RESODDED.
[ ]	—	PROP. DETECTABLE WARNING PER FDOT INDEX 522-002
[ ]	—	MILLING EXISTING ASPHALT PAVEMENT (½" AVERAGE) RESURFACING WITH 1 LIFT (1") OF SP-9.5 ASPHALTIC CONCRETE SURFACE COURSE (INSTALL W/ THE SECOND LIFT OF THE PAVEMENT RESTORATION AND NEW PAVEMENT)
[ ]	—	CONTINGENCY: EXIST. ASPHALT DRIVEWAY TO BE RESURFACED W/ 1" SP-9.5 CONCRETE ASPHALT.
[ ]	—	CONTINGENCY: EXIST. PAVER DRIVEWAY TO BE RESURFACED. SEE PAVER DRIVEWAY RESTORATION DETAIL SHEET C-30
[ ]	—	<u>NEW PAVEMENT/ WIDENING/ DRAINAGE TRENCH RESTORATION</u>
—	—	- 2 LIFTS OF (1") SP-9.5 ASPHALTIC CONC.
—	—	- 8" MIN. BASE COURSE COMPACTED TO MIN. 98% (MODIFIED PROCTOR) MIN. LBR=100 PER AASHTO T-180)
—	—	- 12" STABILIZED SUBBASE, COMPACTED TO MIN. 98%, MIN. LBR=40, PER AASHTO T-180

	CUTLER BAY TOWN HALL 10720 CARIBBEAN BOULEVARD CUTLER BAY, FL 33189 PHONE: (305) 234-4262 FAX: (305) 234-4251	SCALE: AS SHOWN PROJECT NO.: 2151 DWG. NO.: SHEET: C-4
	<b>LEGEND AND ABBREVIATIONS</b>	
	DESIGNED BY: C.B. DRAWN BY: C.B. CHECKED BY: J.C.F. DATE: 12/6/2023	SEAL:
REV. DATE BY: DESCRIPTION		

**PAY ITEM DESCRIPTION**

1	CONTRACTOR SHALL FURNISH AS-BUILT PLANS SIGNED AND SEALED BY AND PROFESSIONAL LAND SURVEYOR TO THE TOWN OF CUTLER BAY TO BE ACCOMPLISHED IN ACCORDANCE WITH THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS, U.S. DEPARTMENT OF TRANSPORTATION FEDERAL HIGHWAY ADMINISTRATION. PUBLIC WORKS MANUAL OF MIAMI DADE COUNTY, THE LATEST REVISIONS OF THE AFOREMENTIONED MANUALS AT TIME OF CONSTRUCTION WITH ENGINEER APPROVAL, AND IN ACCORDANCE WITH THE LATEST FLORIDA DEPARTMENT OF TRANSPORTATION DESIGN STANDARDS INDEX 102 SERIES. INCLUDES THE COST OF CONSTRUCTION OF TEMPORARY PAVEMENT & ITS SUBSEQUENT REMOVAL.
102-1	THIS ITEM IS TO BE USED IN ACCORDANCE WITH THE PLANS, STANDARDS, AND/OR EROSION AND SEDIMENT CONTROL MANUAL FOR THE PROTECTION OF EXISTING INLETS. PAYMENT PER EACH INLET INCLUDES ALL WORK AND MATERIALS FOR A COMPLETE SYSTEM. PROPOSED INLETS: THE PAYMENT FOR PROTECTING NEW INLETS IS INCIDENTAL TO THE COST OF THE NEW INLET. CURB INLET FILTERS, CURB INSERT PROTECTION SYSTEMS, PIPE END CAP FILTERS, DITCH BOTTOM INLET PROTECTION SYSTEMS ("CAPS", BARRIERS, AND OTHER MATERIALS), ARE INCLUDED IN THIS PAY ITEM.
104-18	CONSISTS OF COMPLETE REMOVAL AND DISPOSAL OF ALL VEGETATION, DEBRIS, DRAINAGE STRUCTURES, DRAINAGE PIPES, FLEXIBLE PAVEMENT, OR ANY OTHER OBSTRUCTIONS IN ALL AREAS WHERE EXCAVATION IS TO BE DONE, OR WHERE EMBANKMENTS OR STRUCTURES WILL BE CONSTRUCTED. THIS INCLUDES ROADWAY AREA, DITCH AREA, BORROW AND MATERIAL PITS, AND AREAS WHERE CULVERTS OR PIPELINES WILL BE CONSTRUCTED. ALSO INCLUDES SHRUB AND TREE TRIMMING. ALL DEBRIS SHOULD BE DISPOSED OF IN LEGAL AREAS PROVIDED BY THE CONTRACTOR.
110-1-1	CONSISTS OF REMOVING AND DISPOSING OF EXISTING CONCRETE PAVEMENT, CONCRETE SIDEWALKS, CONCRETE APRONS, DITCH PAVEMENT, CONCRETE PAVERS, AND CURB AND GUTTER.
110-4-10	THE DISPOSAL OF MUCK, CLAY, ROCK, OR OTHER UNSUITABLE MATERIAL THAT COULD EXIST.
120-4	INCLUDES ALL WORK AND MATERIALS (SUITABLE MATERIAL) PER FDOT SECTION 120 AND INDEX 120-001 REPLACE WITH CLEAN FILL THE VOLUME OF SUBSOIL EXCAVATION (PAY ITEM 120-4).
120-6	INCLUDES EXCAVATION FOR BOX CULVERTS, PIPE CULVERTS (SOLID PIPE), INLETS, MANHOLES, AND SIMILAR STRUCTURES. BASE AND SUB-BASE EXCAVATION WITHIN TRENCH RESTORATION IS INCLUDED IN THIS PAID ITEM. THESE ARE ESTIMATED QUANTITIES AND MAY BE INCREASED OR DECREASED.
125-1	INCLUDES ALL WORK AND MATERIALS SPECIFIED IN SECTION 160 (FDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION), INCLUDING FURNISHING, SPREADING, AND MIXING OF ALL STABILIZING MATERIAL REQUIRED AND ANY REPROCESSING OF STABILIZATION AREAS NECESSARY TO ATTAIN THE SPECIFIED BEARING VALUE.
160-4	CONSISTS OF REMOVING EXISTING AC PAVEMENT TO IMPROVE THE RIDEABILITY OF THE FINISHED PAVEMENT, TO LOWER THE FINISHED GRADE ADJACENT TO EXISTING CURB PRIOR TO RESURFACING, OR TO COMPLETELY REMOVE EXISTING PAVEMENT. INCLUDES TRANSPORTING THE MILLED MATERIAL TO THE ASPHALT PLANT SITE AND STOCKPILING THE MATERIAL. ALSO INCLUDES REMOVAL OF EXISTING REFLECTIVE PAVEMENT MARKER
327-70-16	INCLUDES: POLLUTION RETARDANT BAFFLE, FRAME, GRATES, COVERS, MATERIALS, METAL PIPE ENCASUREMENT, INLET PROTECTION (PAY ITEM DESCRIPTION 104-18), LABOR AND CONSTRUCTION SHALL BE INCLUDED IN COST OF STRUCTURES.
425-1-SERIES 425-2-SERIES	WITHIN PAVEMENT AREA, MANHOLES AND VALVE BOXES TO BE ADJUSTED AS NECESSARY.
425-5 & 425-6	INCLUDES FURNISHING AND PLACING: PIPE PLUGS, PIPE FITTING, CAPS, CONCRETE JACKET AND SOLID PIPES.
430-174-SERIES	INCLUDES: EXCAVATION TO PLAN ELEVATION (15 FEET DEEP. SEE DETAILS SHEETS), FURNISHING AND PLACING: (PIPE PLUGS, PIPE FITTINGS, PERFORATED PIPES, BALLAST ROCK AND BACKFILLING WITH SELECT FILL, FILTER FABRIC AND ALL APPLICABLE ITEMS REQUIRED TO CONSTRUCT DRAIN). ALSO, IT IS INCLUDED THE ADDITIONAL COST OF EXCAVATING AROUND THE LATERALS SERVICING SAID PROPERTIES.
443-70-SERIES	ESTIMATED QUANTITY FOR: DRIVEWAYS, SIDEWALK, RAMPS, APRON, AND CONC. SLAB (REINFORCED) TO BE CONSTRUCTED AT LOCATIONS SHOWN IN THE PLANS AND/OR AS DIRECTED BY THE ENGINEER.
522-2	INCLUDES ALL LABOR AND MATERIALS (PAVER, SAND LEVELING COURSE, 6" LIMEROCK, AND ANY PROCESSING OR MATERIAL NECESSARY TO COMPLETE PAVER INSTALLATION.)
526-1-1	INCLUDES 4" TOPSOIL LAYER AND SOD TO BE USED IN THE RESTORATION OF LAWNS AND MAY BE INCREASED OR DECREASED AS DIRECTED BY THE TOWN OF CUTLER BAY. BAHIA SOD OR TO MATCH EXISTING SOD.
570-1-2	THIS ITEM INCLUDES ALL SIGN PANEL(S), COLUMN(POST), FOUNDATION, HARDWARE AND MATERIALS NECESSARY FOR A COMPLETE ASSEMBLY.
700-1-11	

**QUANTITIES AND PAY ITEM NOTES:**

- EXCESS AND/OR UNDESIRABLE MATERIAL TO BE DISPOSED OF BY CONTRACTOR IN LEGAL AREAS PROVIDED BY HIM. NO SEPARATE PAYMENT WILL BE MADE FOR THIS ITEM.
- ANY EXCAVATED MATERIAL, IF UNSUITABLE, SHALL NOT BE USED IN THE CONSTRUCTION OF THE EMBANKMENT.
- ASPHALT DRIVEWAY RESTORATION IS INCLUDED IN THE PAY ITEM 334-1-13.
- THE CONTINGENCY ITEM MUST BE APPROVED BY THE ENGINEER ON RECORD AND THE TOWN.
- THE 5 L.F. OF SOLID PIPE ON BOTH SIDES OF THE FRENCH DRAIN ARE INCLUDED IN THE QUANTITIES LISTED UNDER PAY ITEMS 430-174-SERIES AND 125-1 (EXCAVATION)
- THE PRICE FOR CUTTING AND RECONNECTING EXISTING DRAINAGE PIPES TO THE PROPOSED DRAINAGE SYSTEM IS INCLUDED IN PAY ITEMS 425-1-SERIES AND 425-2-SERIES.
- REFER TO FDOT'S "DESIGN QUANTITIES AND ESTIMATES" (DQE) FOR MORE INFORMATION ON THE PAYMENT ITEM DESCRIPTIONS.

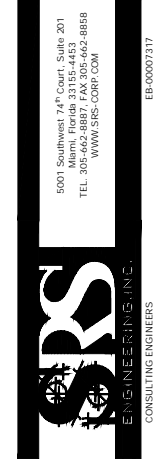
THE USE OF THESE PLANS AND SPECIFICATIONS SHALL BE RESTRICTED TO THE ORIGINAL SITE FOR WHICH THEY WERE PREPARED AND PUBLICATION HEREOF IS EXPRESSLY LIMITED TO SUCH USE. REVISION OR PUBLICATION BY ANY METHOD, IN WHOLE OR IN PART, IS PROHIBITED. TITLE TO THE PLANS AND SPECIFICATIONS REMAINS WITH SRS ENGINEERING, INC. WITHOUT PREJUDICE. VISUAL CONTACT WITH THESE PLANS AND SPECIFICATIONS SHALL CONSTITUTE PRIMA FACIE EVIDENCE OF THE ACCEPTANCE OF THE RESTRICTIONS.

 SRS ENGINEERING & CONSULTING CONSULTING ENGINEERS 5001 Southwest 74th Court, Suite 201 Miami, Florida 33152-4453 TEL: 305-662-8887 FAX: 305-662-8859 WWW.SRS-CORP.COM	SEAL: DESIGNED BY: G.B. DRAWN BY: G.B. CHECKED BY: J.C.F. DATE: 12/6/2023	CUTLER BAY TOWN HALL 10720 CARBEEAN BOULEVARD CUTLER BAY, FL 33189 PHONE: (305) 234-4262 FAX: (305) 234-4251	<b>CUTLER BAY - ROADWAY &amp; DRAINAGE IMPROVEMENTS AREA # 2</b>  <b>PAY ITEM NOTES</b>	SCALE: AS SHOWN PROJECT NO.: 2151 DWG. NO.: SHEET: C-5.0
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ROADWAY			
Item	Pay Item No.	Description	Unit Measure
1	001	AS BUILT	LS
2	101-1	MOBILIZATION	LS
3	102-1	MAINTENANCE OF TRAFFIC	LS
4	102-14	TRAFFIC CONTROL OFFICER ALLOWANCE	HR
5	104-18	INLET PROTECTION SYSTEM (EXISTING INLETS)	EA
6	110-1-1	CLEARING AND GRUBBING	LS
7	110-4-10	REMOVAL OF EXISTING CONCRETE + (30% CONTINGENCY)	SY
8	110-7-1	MAILBOX, F&I SINGLE	EA
9	120-4	SUBSOIL EXCAVATION (CONTINGENCY)	CY
10	120-6	EMBANKMENT (CONTINGENCY)	CY
11	125-1	EXCAVATION FOR STRUCTURES AND SOLID PIPES	CY
12	160-4	TYPE B STABILIZATION	SY
13	285-704	LIMEROCK BASE (6") (OPTIONAL BASE, BASE GROUP 04)	SY
14	285-706	LIMEROCK BASE (8") (OPTIONAL BASE, BASE GROUP 06)	SY
15	327-70-16	MILLING EXISTING ASPHALT PAVEMENT (1/2" AVG. DEPTH)	SY
16	334-1-13	SUPERPAVE ASPHALTIC CONC, TRAFFIC C, SP-9.5 (1") + (10% CONTINGENCY)	TN
17	425-1-2B	SD-3.1 SWALE INLET TYPE D-1 (17" x 27") < 10' (M-DPWD PAY ITEM)	EA
18	425-1-2-A	SD-2.2 SWALE INLET TYPE D-3 (36" Dia.) < 10' (M-DPWD PAY ITEM)	EA
19	425-1-481	INLETS, CURB, TYPE 8, <10'	EA
20	425-1-482	INLETS, CURB, TYPE 8, >10'	EA
21	425-1-604	SD-2.7 SWALE INLETS (TYPE-P), > 10' (M-DPWD PAY ITEM)	EA
22	425-2-41	SD-2.7 MANHOLES, P-7, < 10' (M-DPWD PAY ITEM)	EA
23	425-2-42	SD-2.7 MANHOLES, P-7, > 10' (M-DPWD PAY ITEM)	EA
24	425-2-71	SD-2.6 MANHOLES, J-7, < 10' (M-DPWD PAY ITEM)	EA
25	425-2-72	SD-2.6 MANHOLES, J-7, > 10' (M-DPWD PAY ITEM)	EA
26	425-5	MANHOLE, ADJUST	EA
27	425-6	VALVE BOXES, ADJUST	EA
28	430-94-1	DESILTING PIPE, 0 - 24	LF
29	430-174-115	PIPE CULVERT, OPTIONAL MATERIAL, ROUND, 15"SD	LF
30	430-174-118	PIPE CULVERT, OPTIONAL MATERIAL, ROUND, 18"SD (HDPE)	LF
31	443-70-3	EXFILTRATION DRAIN (18")	LF
32	522-2	CONCRETE SIDEWALK (6" THICK) (SIDEWALK, RAMP, APRON, DRIVEWAY & SALB) + (30% CONTINGENCY)	SY
33	526-1-1	PAVERS, ARCHITECTURAL, ROADWAY (CONTINGENCY)	SY
34	527-2	DETECTABLE WARNINGS	SF
35	570-1-2	PERFORMANCE TURF, SOD	SY
36	1080-211	UTILITY FIXTURE, VALVE/METER BOX, FURNISH & INSTALL	EA

PAVEMENT MARKING AND SIGNAGE			
Item	Pay Item No.	Description	Unit Measure
37	710-11-101	PAINTED PAVEMENT MARKINGS, STANDARD, WHITE, SOLID, 6"	0.07
38	710-11-123	PAINTED PAVEMENT MARKINGS, STANDARD, WHITE, SOLID FOR CROSSWALK AND ROUNDABOUT, 12"	830
39	710-11-125	PAINTED PAVEMENT MARKINGS, STANDARD, WHITE, SOLID FOR STOP LINE OR CROSSWALK, 24"	130
40	710-11-201	PAINTED PAVEMENT MARKINGS, STANDARD, YELLOW, SOLID, 6"	0.55
41	700-1-11	SINGLE POST SIGN, F&I GROUND MOUNT, UP TO 12 SF	8
42	700-1-50	SINGLE POST SIGN, RELOCATE	2
43	706-1-1	RAISED PAVEMENT MARKER, TYPE B WITHOUT FINAL SURFACE MARKINGS (Y/Y, W/R & BLUE)	100
44	711-11-123	THERMOPLASTIC, STANDARD, WHITE, SOLID, 12" FOR CROSSWALK AND ROUNDABOUT	830
45	711-11-125	THERMOPLASTIC, STANDARD, WHITE, SOLID, 24" FOR STOP LINE AND CROSSWALK	130
46	711-16-101	THERMOPLASTIC, STANDARD-OTHER SURFACES, WHITE, SOLID, 6"	0.07
47	711-16-201	THERMOPLASTIC, STANDARD-OTHER SURFACES, YELLOW, SOLID, 6"	0.55



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PHONE: (305) 234-4262  
FAX: (305) 234-4251

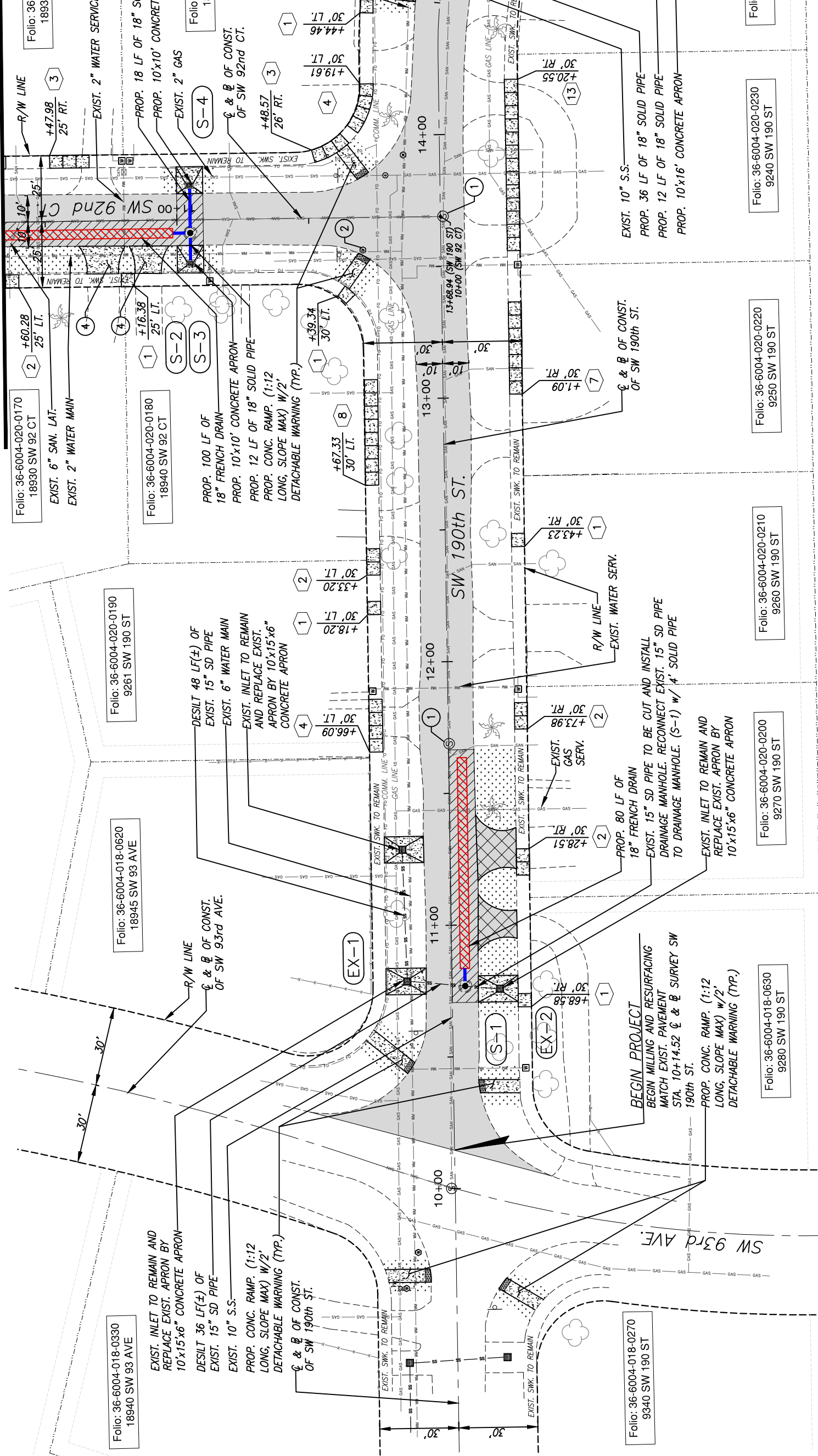
**CUTLER BAY - ROADWAY & DRAINAGE IMPROVEMENTS AREA # 2**

**SUMMARY OF QUANTITIES**

SCALE: AS SHOWN  
PROJECT NO.: 2151  
DWG. NO.:  
SHEET: C-5.1

Filename: F:\Engineering\RSR Projects\2021\2151 - Cutler Bay Drainage Sub-Basins Roadway Improvements\Area 2\Design\AGE\_5.0-5.1\_QUANTITIES (Area 2).dwg - Plot Date: 4/8/2019

MATCH LINE STA. 11+66 (FOR CONTINUATION SEE SHEET C-8)



MATCH LINE STA. 15+00 (FOR CONTINUATION SEE SHEET C-7)

**NOTE:**

1. FOR LEGEND AND ABBREVIATIONS, SEE SHEET C-4
2. ALL EXISTING BROKEN SIDEWALKS SHALL BE REPLACED (SAW CUT), INSTALLS SIDEWALK FLAGS AS REQUIRED. SEE DETAIL "SIDEWALK FLAG REPLACEMENT" ON SHEET C-30, FOR THE AREA TO BE RESODDED.
3. ACCESSIBLE RAMP SHALL BE MAX. SLOPE 1:12 W/ 2' DETECTABLE WARNING SURFACE AS PER FDOT 522-002. SEE SHEET ACCESSIBILITY FLUSH RAMP/SIDEWALK (SHEET C-31)

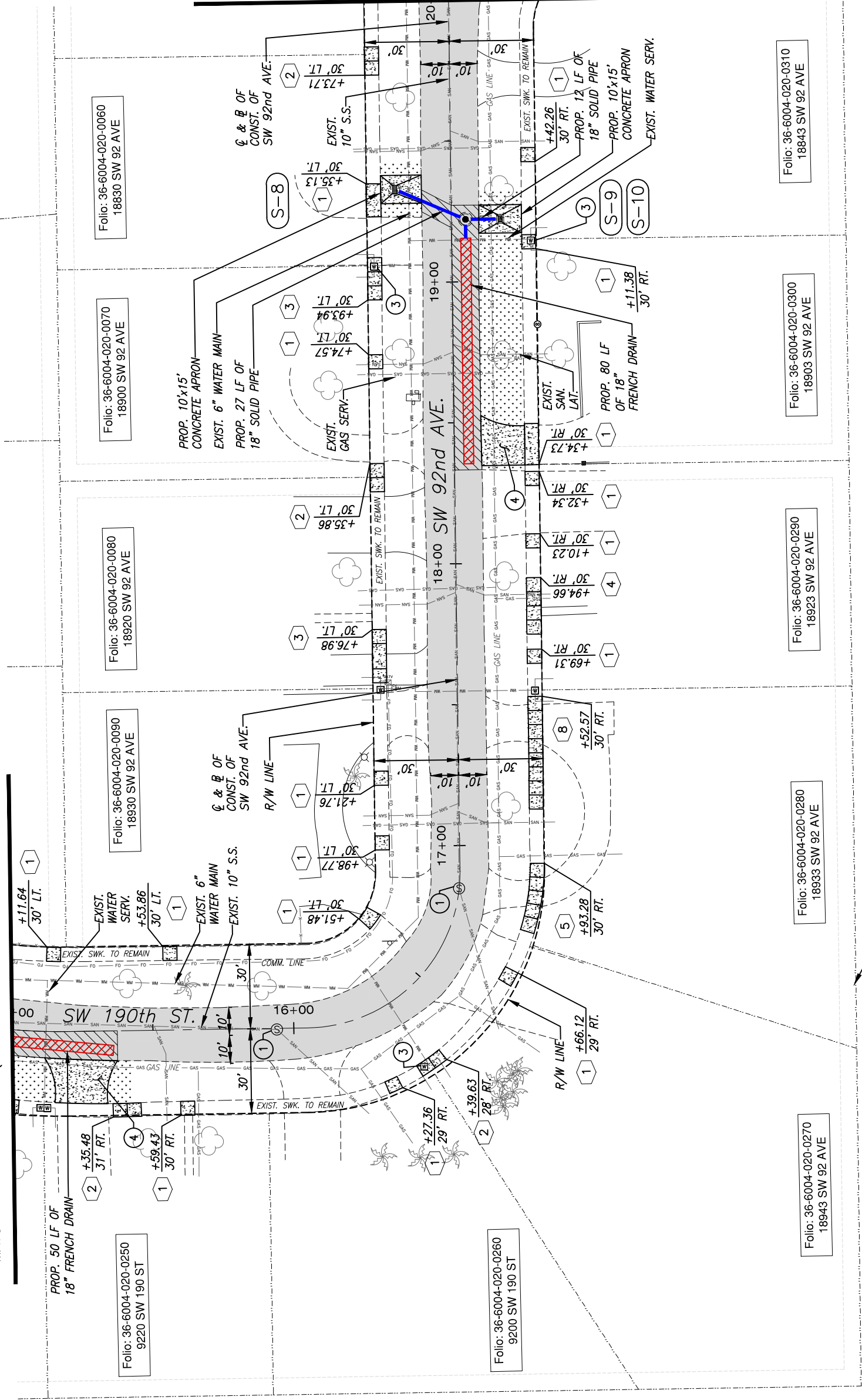
DESIGNED BY: C.B.	DRAWN BY: C.B.	CHECKED BY: J.C.F.	DATE: 12/6/2023	SEAL:				
REV.	DATE	BY:	DESCRIPTION					
					<b>CUTLER BAY - ROADWAY &amp; DRAINAGE IMPROVEMENTS AREA # 2</b>			<b>ROADWAY PLAN</b>
				CUTLER BAY TOWN HALL 10720 CARIBBEAN BOULEVARD CUTLER BAY, FL 33189 PHONE: (305) 234-4262 FAX: (305) 234-4251	SCALE: AS SHOWN PROJECT NO.: 2151 DWG. NO.: SHEET: C-6			0 40' 80'

THE USE OF THESE PLANS AND SPECIFICATIONS SHALL BE RESTRICTED TO THE ORIGINAL SITE FOR WHICH THEY WERE PREPARED AND PUBLICATION THEREOF IS EXPRESSLY LIMITED TO SUCH USE. THE REPRODUCTION OR PUBLICATION BY ANY METHOD, IN WHOLE OR IN PART, IS PROHIBITED. TITLE TO THE PLANS AND SPECIFICATIONS REMAINS WITH SRS ENGINEERS, INC. WITHOUT PREJUDICE. VISUAL CONTACT WITH THESE PLANS AND SPECIFICATIONS SHALL CONSTITUTE PRIMA FACIE EVIDENCE OF THE VIOLATION OF THESE PLANS AND SPECIFICATIONS.



MATCH LINE STA. 15+00 (FOR CONTINUATION SEE SHEET C-6)

MATCH LINE STA. 20+00 (FOR CONTINUATION SEE SHEET C-8)



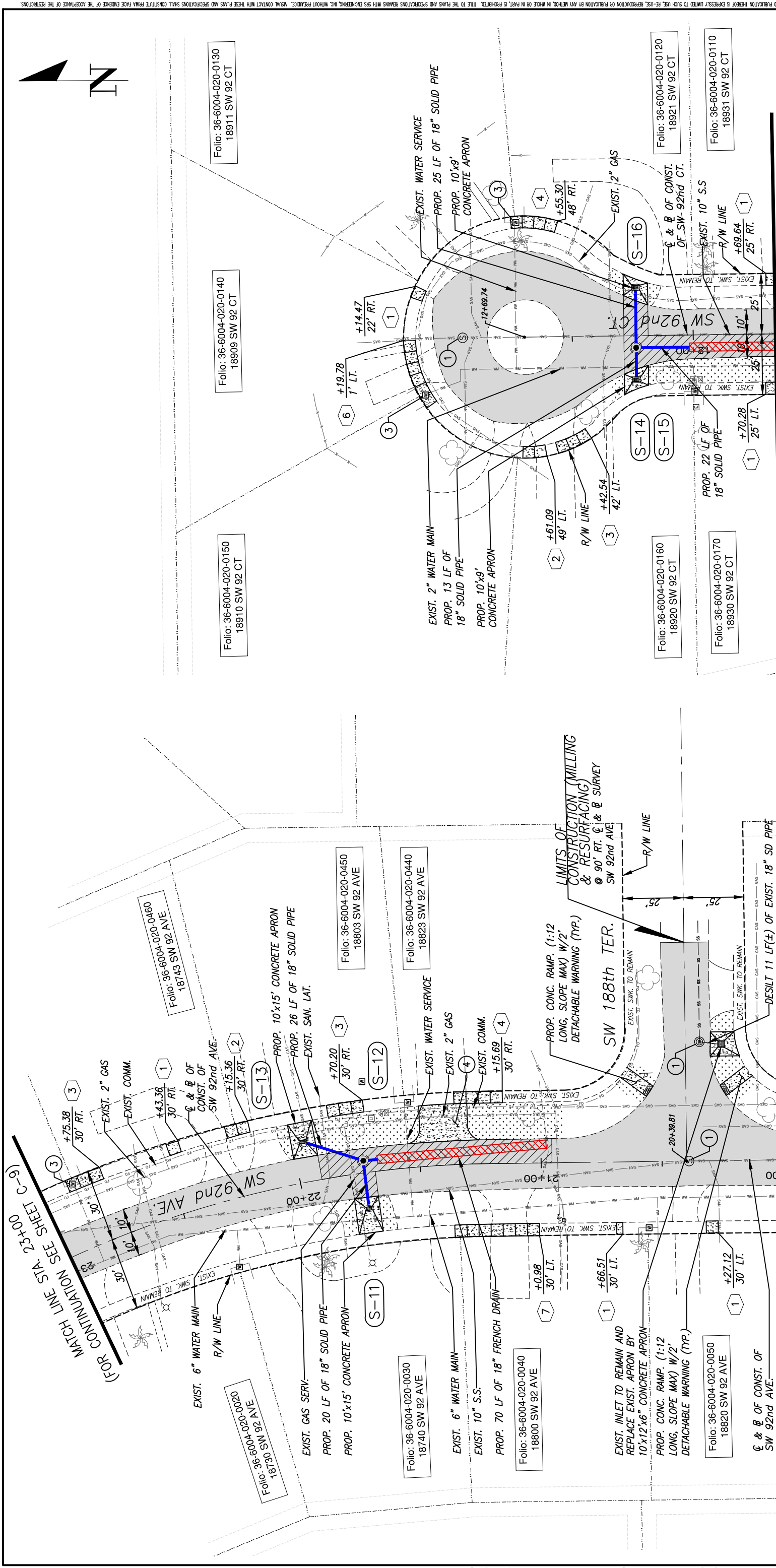
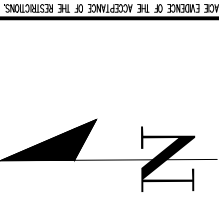
**NOTE:**

1. FOR LEGEND AND ABBREVIATIONS, SEE SHEET C-4
2. ALL EXISTING BROKEN SIDEWALKS SHALL BE REPLACED (SAW CUT), INSTALLS SIDEWALK FLAGS AS REQUIRED. SEE DETAIL "SIDEWALK FLAG REPLACEMENT" ON SHEET C-30, FOR THE AREA TO BE RESODDED.
3. ACCESSIBLE RAMP SHALL BE MAX. SLOPE 1:12 W/ 2' DETECTABLE WARNING SURFACE AS PER FDOT 522-002. SEE SHEET ACCESSIBILITY FLUSH RAMP/SIDEWALK (SHEET C-31)



DESIGNED BY:	C.B.	SCALE:	AS SHOWN	<b>CUTLER BAY - ROADWAY &amp; DRAINAGE IMPROVEMENTS AREA # 2</b>			
DRAWN BY:	C.B.	PROJECT NO.:	2151				
CHECKED BY:	J.C.F.	DWG. NO.:					
DATE:	12/6/2023	SHEET:	C-7				
REV.	DATE	BY:	DESCRIPTION				
				<small>5001 Southwest 74th Court, Suite 201 Miami, Florida 33152-4453 TEL: 305-662-8887 FAX: 305-662-8859 WWW.SRS-CORP.COM</small>			
				<small>EB-00007317 CONSULTING ENGINEERS</small>			

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MATCH LINE STA. 11+66 (FOR CONTINUATION SEE SHEET C-6)

MATCH LINE STA. 20+00 (FOR CONTINUATION SEE SHEET C-7)

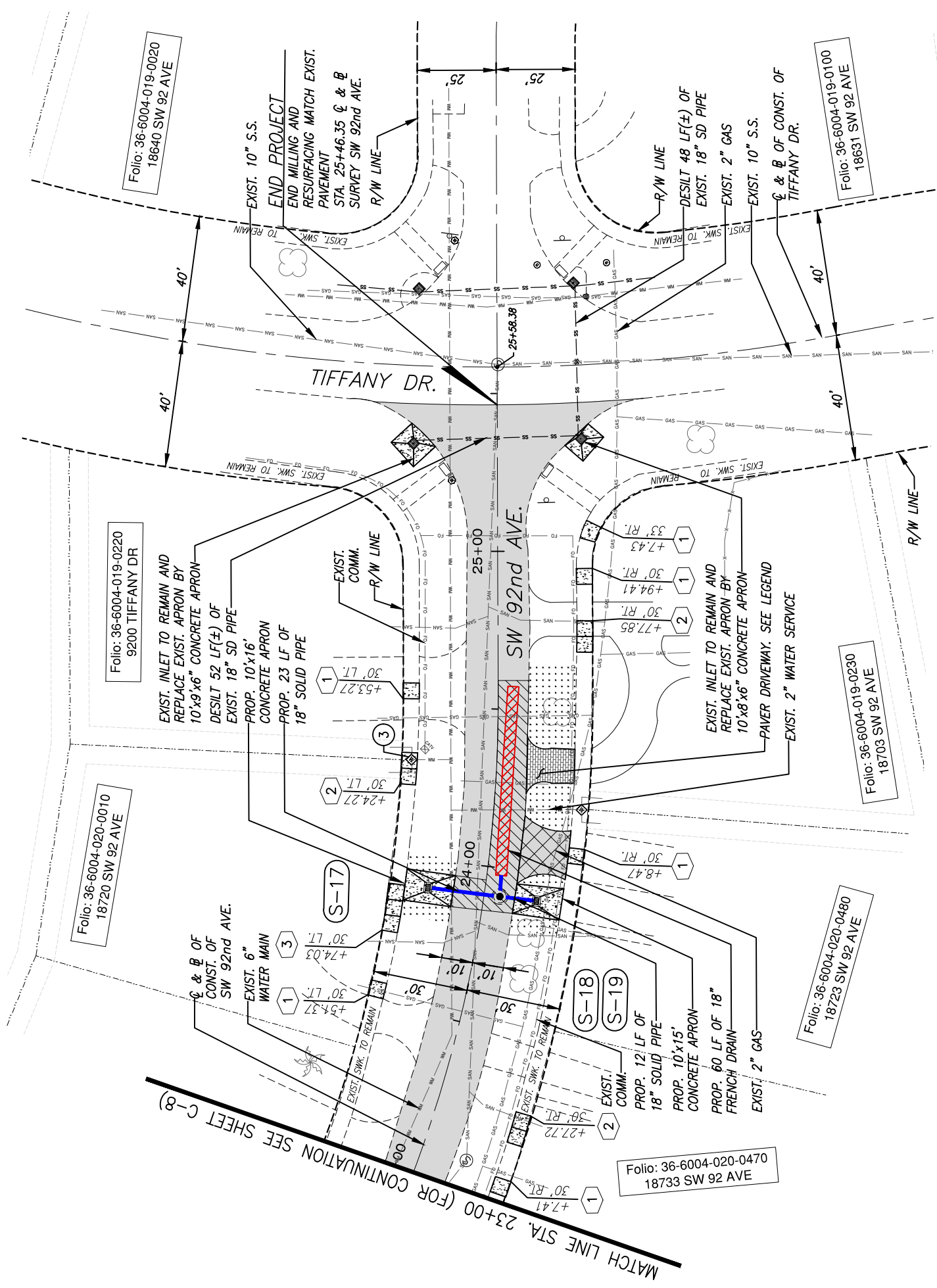
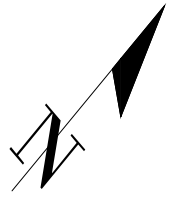
**NOTE:**

1. FOR LEGEND AND ABBREVIATIONS, SEE SHEET C-4
2. ALL EXISTING BROKEN SIDEWALKS SHALL BE REPLACED (SAW CUT), INSTALLS SIDEWALK FLAGS AS REQUIRED. SEE DETAIL "SIDEWALK FLAG REPLACEMENT" ON SHEET C-30, FOR THE AREA TO BE RESODDED.
3. ACCESSIBLE RAMP SHALL BE MAX. SLOPE 1:12 W/ 2' DETECTABLE WARNING SURFACE AS PER FDOT 522-002. SEE SHEET ACCESSIBILITY FLUSH RAMP/SIDEWALK (SHEET C-31)



DESIGNED BY:	C.B.	SCALE:	AS SHOWN	<b>CUTLER BAY - ROADWAY &amp; DRAINAGE IMPROVEMENTS AREA # 2</b> ROADWAY PLAN			
DRAWN BY:	C.B.	PROJECT NO.:	2151				
CHECKED BY:	J.C.F.	DWG. NO.:		<b>CUTLER BAY TOWN HALL</b> 10720 CARIBBEAN BOULEVARD CUTLER BAY, FL 33189 PHONE: (305) 234-4262 FAX: (305) 234-4251			
DATE:	12/6/2023	SHEET:	C-8				
REV.	DATE	BY:	DESCRIPTION	 <small>5001 Southwest 74th Court, Suite 201          Miami, Florida 33152-4453          TEL: 305-662-8887 FAX: 305-662-8859          WWW.SRS-CORP.COM</small>			





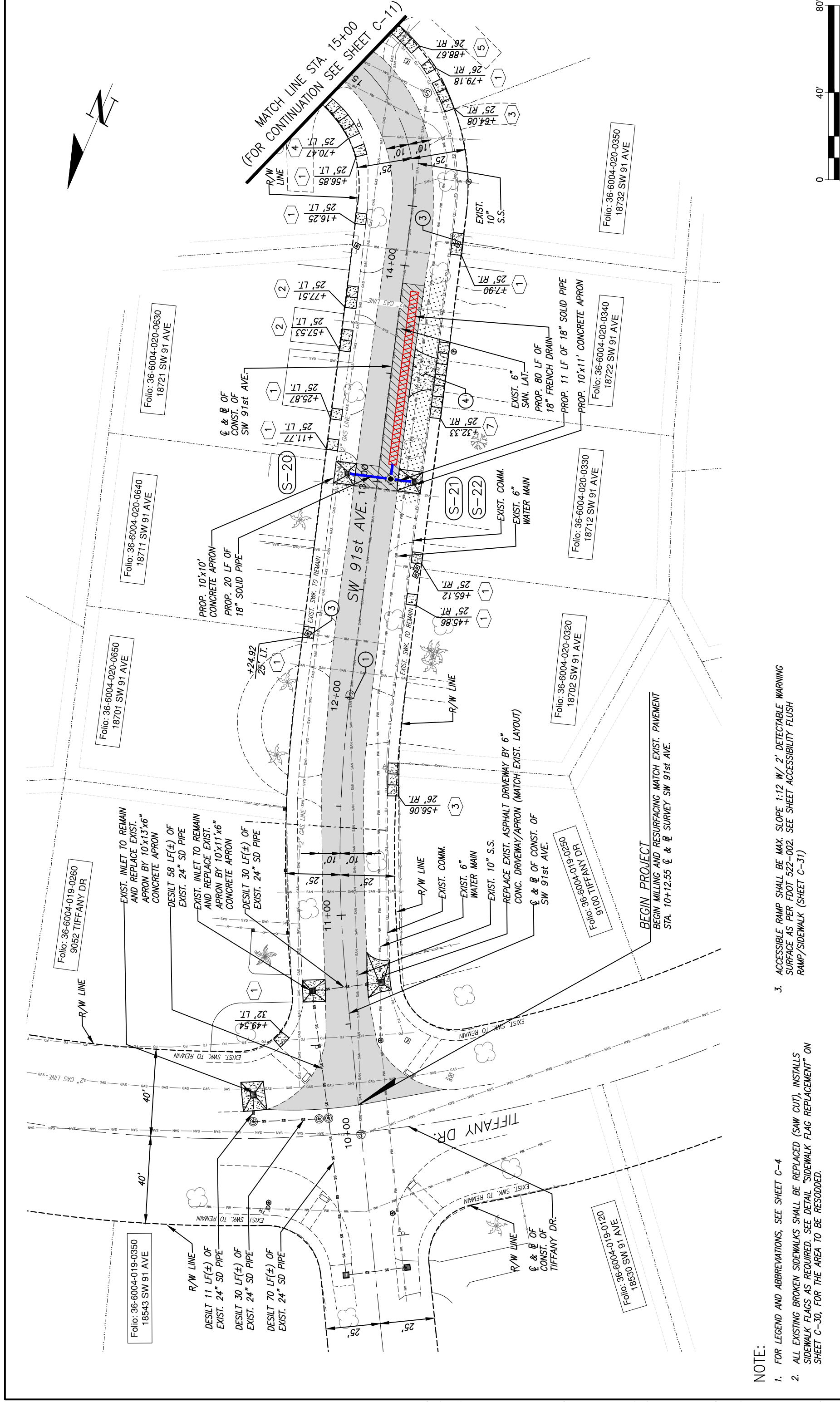
MATCH LINE STA. 23+00 (FOR CONTINUATION SEE SHEET C-8)

**NOTE:**

1. FOR LEGEND AND ABBREVIATIONS, SEE SHEET C-4
2. ALL EXISTING BROKEN SIDEWALKS SHALL BE REPLACED (SAW CUT), INSTALLS SIDEWALK FLAGS AS REQUIRED. SEE DETAIL "SIDEWALK FLAG REPLACEMENT" ON SHEET C-30, FOR THE AREA TO BE RESODDED.
3. ACCESSIBLE RAMP SHALL BE MAX. SLOPE 1:12 W/ 2' DETECTABLE WARNING SURFACE AS PER FDOT 522-002. SEE SHEET ACCESSIBILITY FLUSH RAMP/SIDEWALK (SHEET C-31)



DESIGNED BY:	C.B.	SEAL:		 SRS ENGINEERING, INC. CONSULTING ENGINEERS 5001 Southwest 74th Court, Suite 201 Miami, Florida 33152-4453 TEL: 305-662-8887 FAX: 305-662-8859 WWW.SRS-CORP.COM			
DRAWN BY:	C.B.						
CHECKED BY:	J.C.F.						
DATE:	12/6/2023						
REV.	DATE	BY:	DESCRIPTION				
			 CUTLER BAY INCORPORATED PART				
			CUTLER BAY TOWN HALL 10720 CARIBBEAN BOULEVARD CUTLER BAY, FL 33189 PHONE: (305) 234-4262 FAX: (305) 234-4251				
			<b>CUTLER BAY - ROADWAY &amp; DRAINAGE IMPROVEMENTS AREA # 2</b>				
			ROADWAY PLAN				
			SCALE: AS SHOWN PROJECT NO.: 2151 DWG. NO.: SHEET: C-9				



**NOTE:**

- FOR LEGEND AND ABBREVIATIONS, SEE SHEET C-4
- ALL EXISTING BROKEN SIDEWALKS SHALL BE REPLACED (SAW CUT), INSTALLS SIDEWALK FLAGS AS REQUIRED. SEE DETAIL "SIDEWALK FLAG REPLACEMENT" ON SHEET C-30, FOR THE AREA TO BE RESODDED.
- ACCESSIBLE RAMP SHALL BE MAX. SLOPE 1:12 W/ 2' DETECTABLE WARNING SURFACE AS PER FDOT 522-002. SEE SHEET ACCESSIBILITY FLUSH RAMP/SIDEWALK (SHEET C-31)

REV.	DATE	BY:	DESCRIPTION

DESIGNED BY: C.B.  
 DRAWN BY: C.B.  
 CHECKED BY: J.C.F.  
 DATE: 12/6/2023



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 Miami, Florida 33152-4453  
 TEL: 305-662-8887 FAX: 305-662-8858  
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CUTLER BAY TOWN HALL  
 10720 CARIBBEAN BOULEVARD  
 CUTLER BAY, FL 33189  
 PHONE: (305) 234-4262  
 FAX: (305) 234-4251

**CUTLER BAY - ROADWAY & DRAINAGE IMPROVEMENTS AREA # 2**

**ROADWAY PLAN**

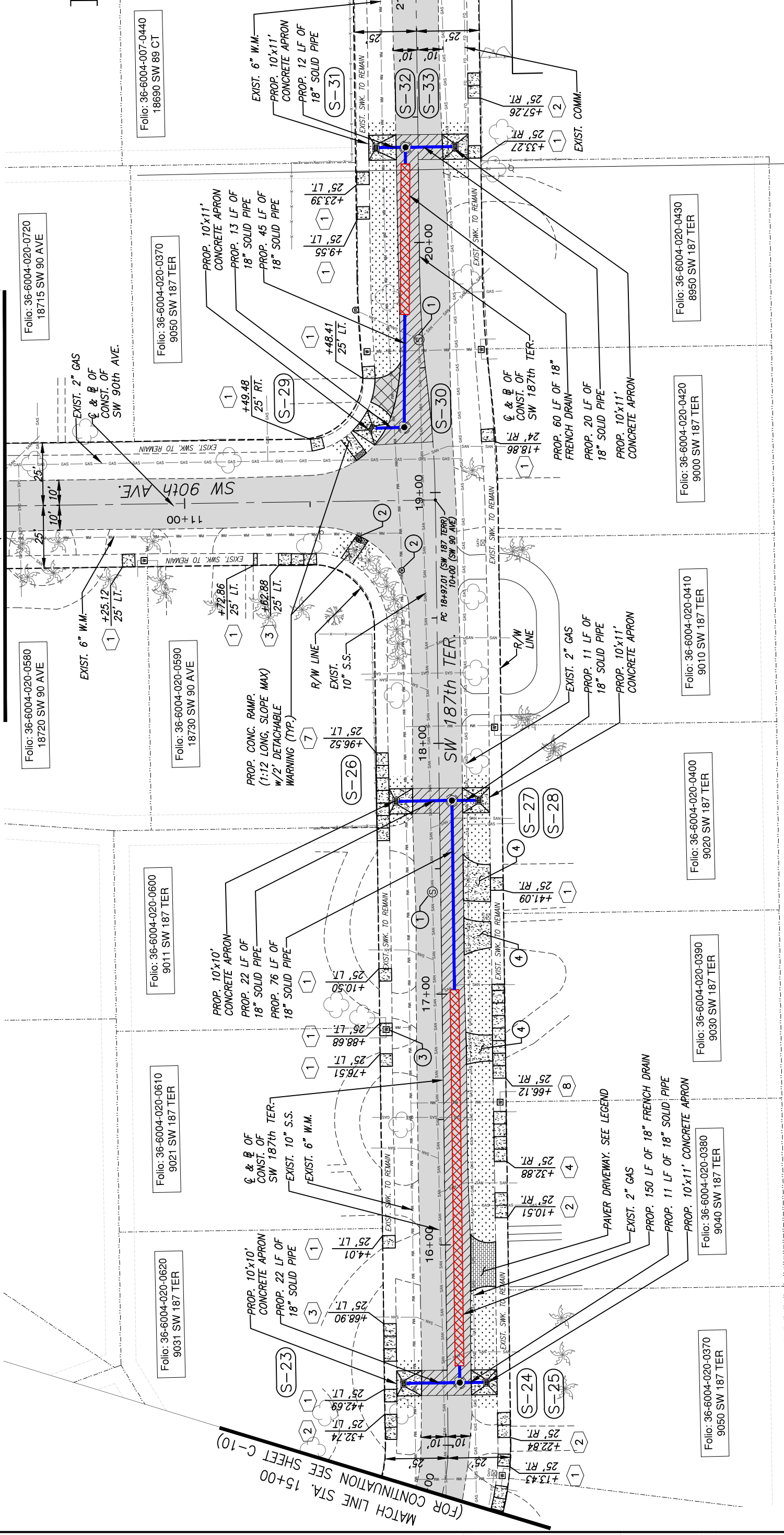
SCALE: AS SHOWN  
 PROJECT NO.: 2151  
 DWG. NO.:  
 SHEET: C-10





MATCH LINE STA. 11+71.7 (FOR CONTINUATION SEE SHEET C-13)

MATCH LINE STA. 21+00 (FOR CONTINUATION SEE SHEET C-12)



- NOTE:**
1. FOR LEGEND AND ABBREVIATIONS, SEE SHEET C-4
  2. ALL EXISTING BROKEN SIDEWALKS SHALL BE REPLACED (SAW CUT), INSTALLS SIDEWALK FLAGS AS REQUIRED. SEE DETAIL "SIDEWALK FLAG REPLACEMENT" ON SHEET C-30, FOR THE AREA TO BE RESODDED.
  3. ACCESSIBLE RAMP SHALL BE MAX. SLOPE 1:12 W/ 2' DETECTABLE WARNING SURFACE AS PER FDOT 522-002. SEE SHEET ACCESSIBILITY FLUSH RAMP/SIDEWALK (SHEET C-31)

DESIGNED BY:	C.B.	SCALE:	AS SHOWN
DRAWN BY:	C.B.	PROJECT NO.:	2151
CHECKED BY:	J.C.F.	DWG. NO.:	SHEET:
DATE:	12/6/2023		C-11
REV.	DATE	BY:	DESCRIPTION



**CUTLER BAY - ROADWAY & DRAINAGE IMPROVEMENTS AREA # 2**

CUTLER BAY TOWN HALL  
10720 CARBEEAN BOULEVARD  
CUTLER BAY, FL 33189  
PHONE: (305) 234-4262  
FAX: (305) 234-4251

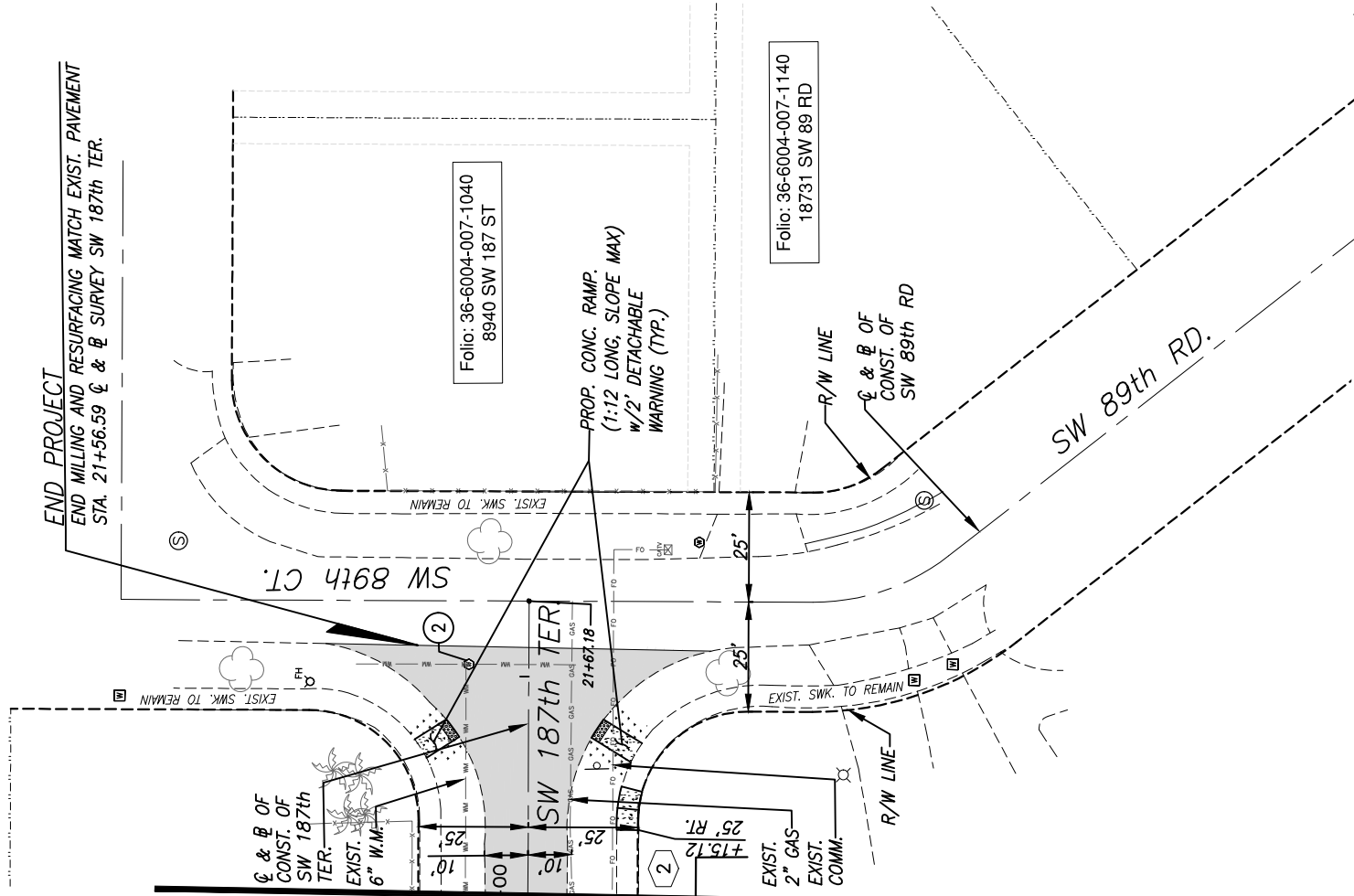


**ROADWAY PLAN**

I:\Projects\2021\12151 - Cutler Bay Drainage Sub-Basins Roadway Improvements\Area 2\Design\FIG\_6\_17\_ROADWAY PLAN (Area 2).dwg - Plot Date: 4.8.2019  
 ITB #24-02  
 BEL AIRE, EUREKA DRIVE ESTS, CUTLER COUNTRY GROVES, ALLOM ESTS, AND SOUTH GROVE WATER QUALITY IMPROVEMENT PROJECT  
 Page 300 of 383



MATCH LINE STA. 21+00 (FOR CONTINUATION SEE SHEET C-11)

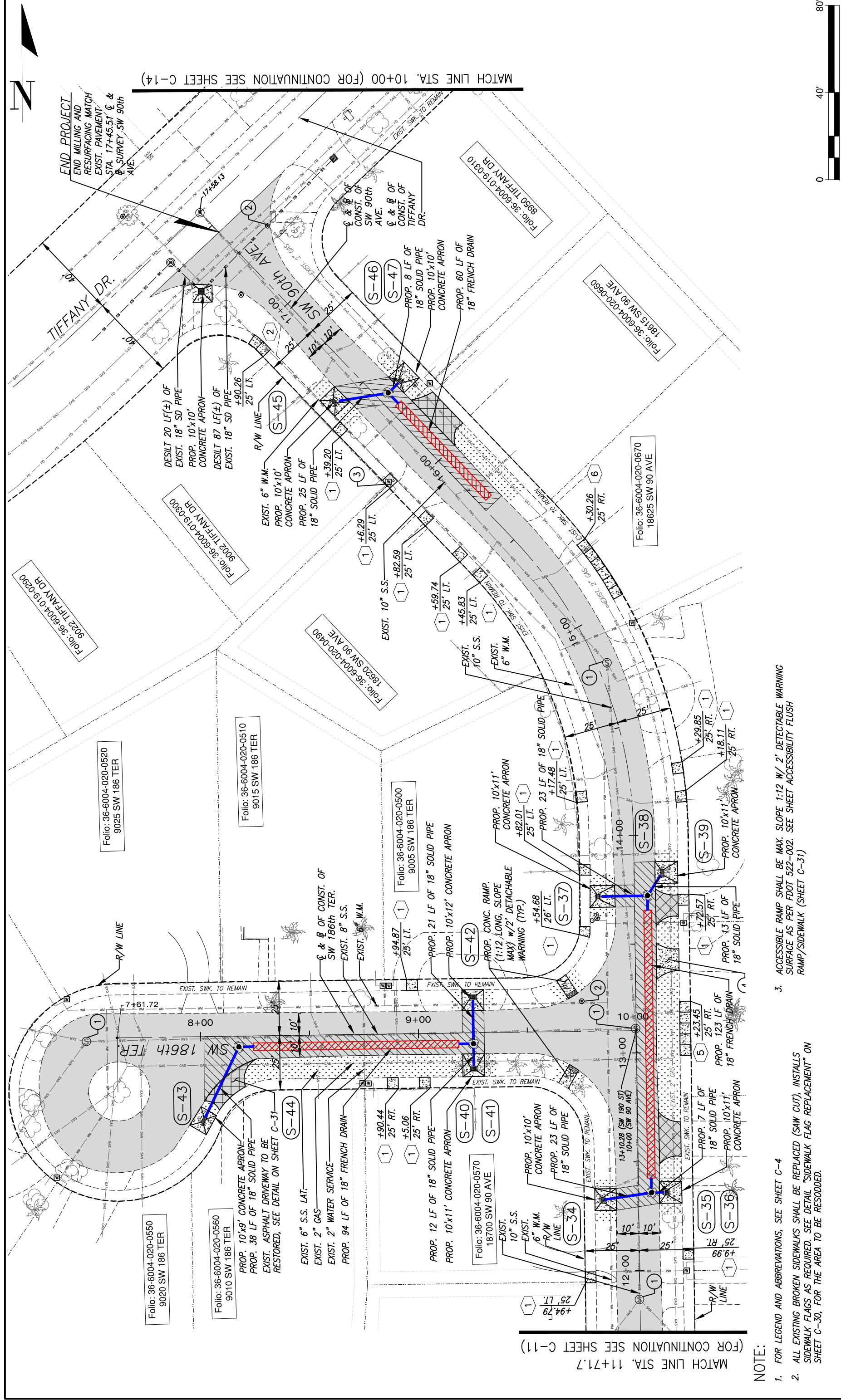


- NOTE:
1. FOR LEGEND AND ABBREVIATIONS, SEE SHEET C-4
  2. ALL EXISTING BROKEN SIDEWALKS SHALL BE REPLACED (SAW CUT), INSTALLS SIDEWALK FLAGS AS REQUIRED. SEE DETAIL "SIDEWALK FLAG REPLACEMENT" ON SHEET C-30, FOR THE AREA TO BE RESODDED.
  3. ACCESSIBLE RAMP SHALL BE MAX. SLOPE 1:12 W/ 2' DETECTABLE WARNING SURFACE AS PER FDOT 522-002. SEE SHEET ACCESSIBILITY FLUSH RAMP/SIDEWALK (SHEET C-31)



DESIGNED BY: C.B.	SEAL:		<b>CUTLER BAY - ROADWAY &amp; DRAINAGE IMPROVEMENTS AREA # 2</b>	SCALE: AS SHOWN	
DRAWN BY: C.B.	PROJECT NO.: 2151			ROADWAY PLAN	
CHECKED BY: J.C.F.	DWG. NO.:				
DATE: 12/6/2023	SHEET: C-12				
REV. DATE BY: DESCRIPTION	CUTLER BAY TOWN HALL 10720 CARIBBEAN BOULEVARD CUTLER BAY, FL 33189 PHONE: (305) 234-4262 FAX: (305) 234-4251				
	5001 Southwest 74th Court, Suite 201 Miami, Florida 33152-4453 TEL: 305-662-8887 FAX: 305-662-8859 WWW.SRS-CON.COM				
	ENGINEERING CONSULTING ENGINEERS EB-00007317				





**NOTE:**

1. FOR LEGEND AND ABBREVIATIONS, SEE SHEET C-4
2. ALL EXISTING BROKEN SIDEWALKS SHALL BE REPLACED (SAW CUT), INSTALLS SIDEWALK FLAGS AS REQUIRED. SEE DETAIL "SIDEWALK FLAG REPLACEMENT" ON SHEET C-30, FOR THE AREA TO BE RESODDED.
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REV.	DATE	BY:	DESCRIPTION

DESIGNED BY:	C.B.
DRAWN BY:	C.B.
CHECKED BY:	J.C.F.
DATE:	12/6/2023

SEAL:	
-------	--

<small>5001 Southwest 74th Court, Suite 201 Miami, Florida 33155-4453 TEL: 305-662-8887 FAX: 305-662-8859 WWW.SRS-CORP.COM</small>	

<small>CUTLER BAY TOWN HALL 10720 CARIBBEAN BOULEVARD CUTLER BAY, FL 33189 PHONE: (305) 234-4262 FAX: (305) 234-4251</small>	

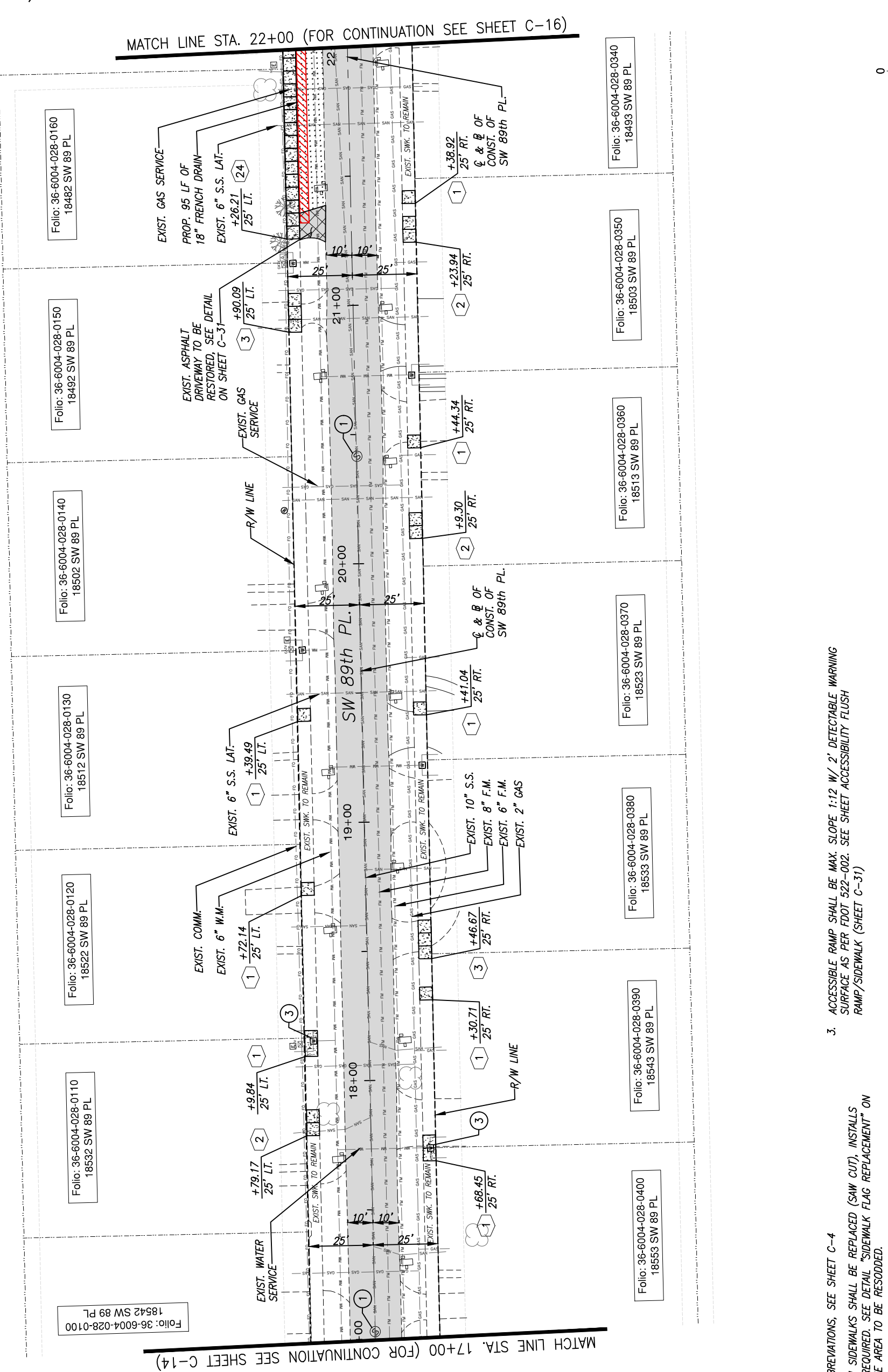
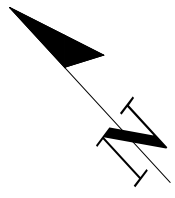
  

<b>CUTLER BAY - ROADWAY &amp; DRAINAGE IMPROVEMENTS AREA # 2</b>	
<b>ROADWAY PLAN</b>	
SCALE:	AS SHOWN
PROJECT NO.:	2151
DWG. NO.:	
SHEET:	C-13







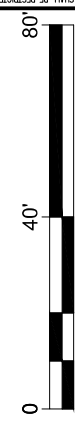


MATCH LINE STA. 22+00 (FOR CONTINUATION SEE SHEET C-16)

MATCH LINE STA. 17+00 (FOR CONTINUATION SEE SHEET C-14)

**NOTE:**

1. FOR LEGEND AND ABBREVIATIONS, SEE SHEET C-4
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Folio: 36-6004-028-0100 18542 SW 89 PL

Folio: 36-6004-028-0110 18532 SW 89 PL

Folio: 36-6004-028-0120 18522 SW 89 PL

Folio: 36-6004-028-0130 18512 SW 89 PL

Folio: 36-6004-028-0140 18502 SW 89 PL

Folio: 36-6004-028-0150 18492 SW 89 PL

Folio: 36-6004-028-0160 18482 SW 89 PL

Folio: 36-6004-028-0340 18493 SW 89 PL

Folio: 36-6004-028-0350 18503 SW 89 PL

Folio: 36-6004-028-0360 18513 SW 89 PL

Folio: 36-6004-028-0370 18523 SW 89 PL

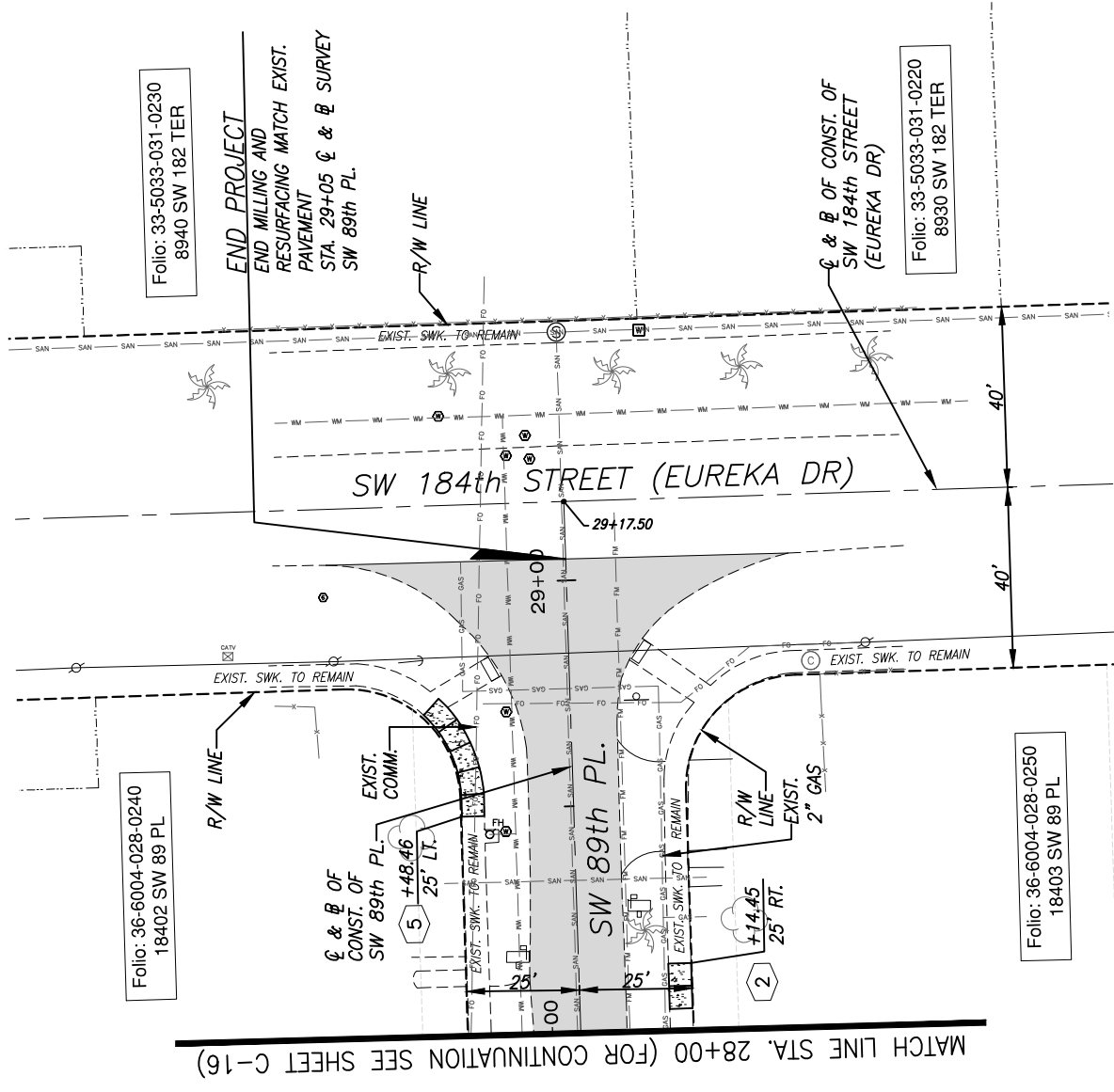
Folio: 36-6004-028-0380 18533 SW 89 PL

Folio: 36-6004-028-0390 18543 SW 89 PL

Folio: 36-6004-028-0400 18553 SW 89 PL

DESIGNED BY:	C.B.	DRAWN BY:	C.B.	CHECKED BY:	J.C.F.	DATE:	12/6/2023
REV.	DATE	BY:	DESCRIPTION				
				<p style="font-size: small; margin: 0;">5001 Southwest 74th Court, Suite 201 Miami, Florida 33152-4453 TEL: 305-662-8887 FAX: 305-662-8859 WWW.SRS-ENG.COM</p>			
				<p style="font-size: x-small; margin: 0;">CUTLER BAY TOWN HALL 10720 CARIBBEAN BOULEVARD CUTLER BAY, FL 33189 PHONE: (305) 234-4262 FAX: (305) 234-4251</p>			
				<p style="font-size: large; margin: 0;"><b>CUTLER BAY - ROADWAY &amp; DRAINAGE IMPROVEMENTS AREA # 2</b></p>			
				<p style="font-size: large; margin: 0;"><b>ROADWAY PLAN</b></p>			
				<p style="font-size: small; margin: 0;">SCALE: AS SHOWN PROJECT NO.: 2151 DWG. NO.: SHEET: C-15</p>			





Folio: 33-5033-031-0230  
8940 SW 182 TER

Folio: 36-6004-028-0240  
18402 SW 89 PL

Folio: 33-5033-031-0220  
8930 SW 182 TER

Folio: 36-6004-028-0250  
18403 SW 89 PL

**NOTE:**

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3. ACCESSIBLE RAMP SHALL BE MAX. SLOPE 1:12 W/ 2' DETECTABLE WARNING SURFACE AS PER FDOT 522-002. SEE SHEET ACCESSIBILITY FLUSH RAMP/SIDEWALK (SHEET C-31)

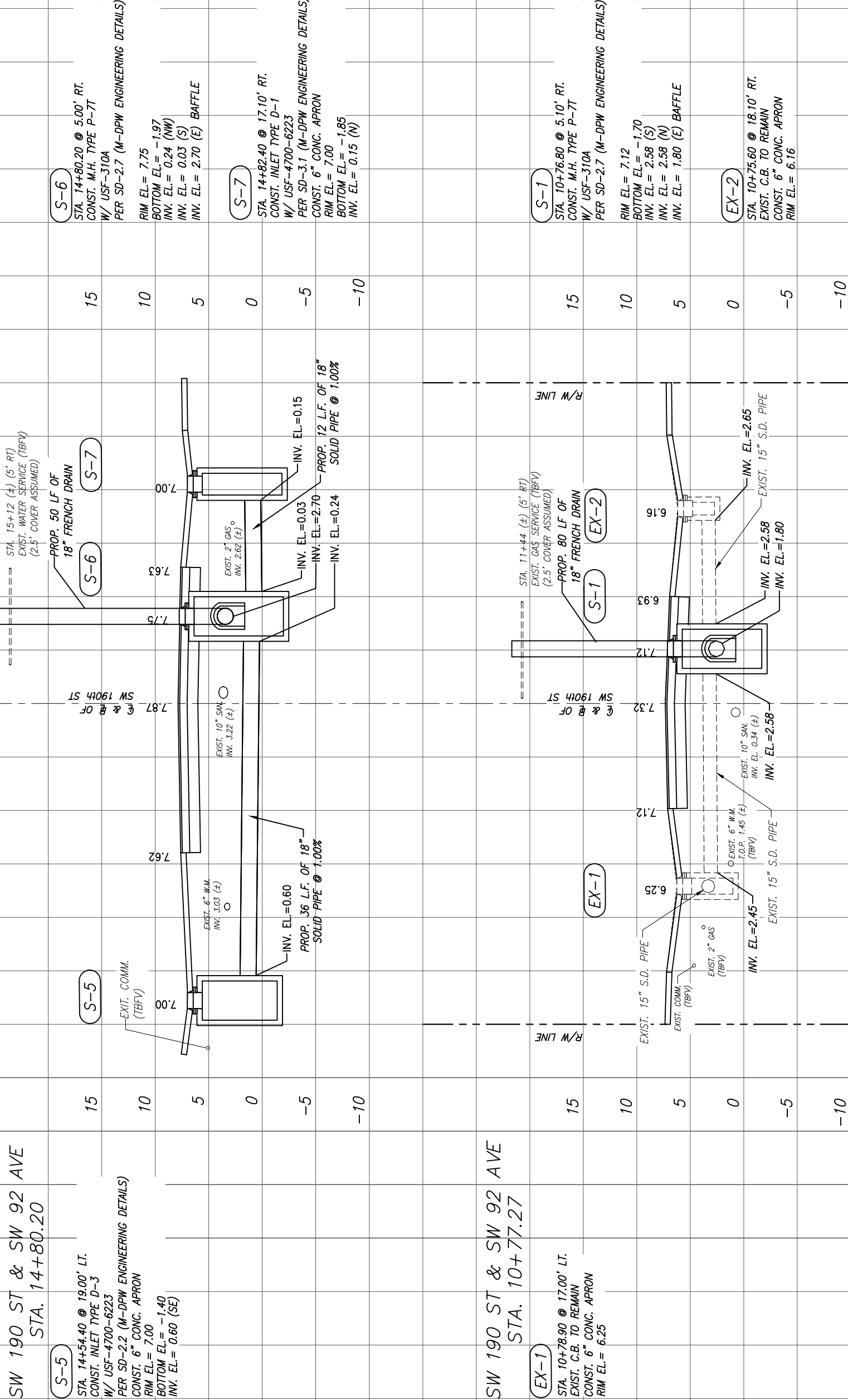


DESIGNED BY: C.B.	SEAL:		<b>CUTLER BAY - ROADWAY &amp; DRAINAGE IMPROVEMENTS AREA # 2</b>	
DRAWN BY: C.B.	SCALE: AS SHOWN			
CHECKED BY: J.C.F.	PROJECT NO.: 2151			
DATE: 12/6/2023	DWG. NO.:			
REV.	DATE	BY:	DESCRIPTION	SHEET: C-17

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**NOTE:**  
THE CONTRACTOR SHALL VERIFY EXIST. MANHOLE  
DRAINAGE INVERTS PRIOR TO ORDERING AND  
CONSTRUCTING OF THE DRAINAGE SYSTEM.



SW 190 ST & SW 92 AVE  
STA. 14+80.20

**S-5**  
STA. 14+54.40 @ 19.00' LT.  
CONST. INLET TYPE D-3  
W/ USF-4700-6223  
PER SD-2.2 (M-DPW ENGINEERING DETAILS)  
CONST. 6" CONC. APRON  
RIM EL.= 7.00  
BOTTOM EL.= -1.40  
INV. EL.= 0.60 (SE)

**S-5**  
-EXIT. COMM. (TBFV)  
7.00

**S-6**  
-PROP. 50 LF OF 18" FRENCH DRAIN  
7.63

**S-6**  
STA. 14+80.20 @ 5.00' RT.  
CONST. M.H. TYPE P-7T  
W/ USF-310A  
PER SD-2.7 (M-DPW ENGINEERING DETAILS)  
RIM EL.= 7.75  
BOTTOM EL.= -1.97  
INV. EL.= 0.24 (NW)  
INV. EL.= 0.03 (S)  
INV. EL.= 2.70 (E) BAFFLE

**S-7**  
STA. 14+82.40 @ 17.10' RT.  
CONST. INLET TYPE D-1  
W/ USF-4700-6223  
PER SD-3.1 (M-DPW ENGINEERING DETAILS)  
CONST. 6" CONC. APRON  
RIM EL.= 7.00  
BOTTOM EL.= -1.85  
INV. EL.= 0.15 (N)

SW 190 ST & SW 92 AVE  
STA. 10+77.27

**EX-1**  
STA. 10+78.90 @ 17.00' LT.  
EXIST. C.B. TO REMAIN  
CONST. 6" CONC. APRON  
RIM EL.= 6.25

**EX-1**  
-EXIST. COMM. (TBFV)  
6.25

**S-1**  
-PROP. 80 LF OF 18" FRENCH DRAIN  
6.93

**S-1**  
STA. 10+76.80 @ 5.10' RT.  
CONST. M.H. TYPE P-7T  
W/ USF-310A  
PER SD-2.7 (M-DPW ENGINEERING DETAILS)  
RIM EL.= 7.12  
BOTTOM EL.= -1.70  
INV. EL.= 2.58 (S)  
INV. EL.= 2.58 (N)  
INV. EL.= 1.80 (E) BAFFLE

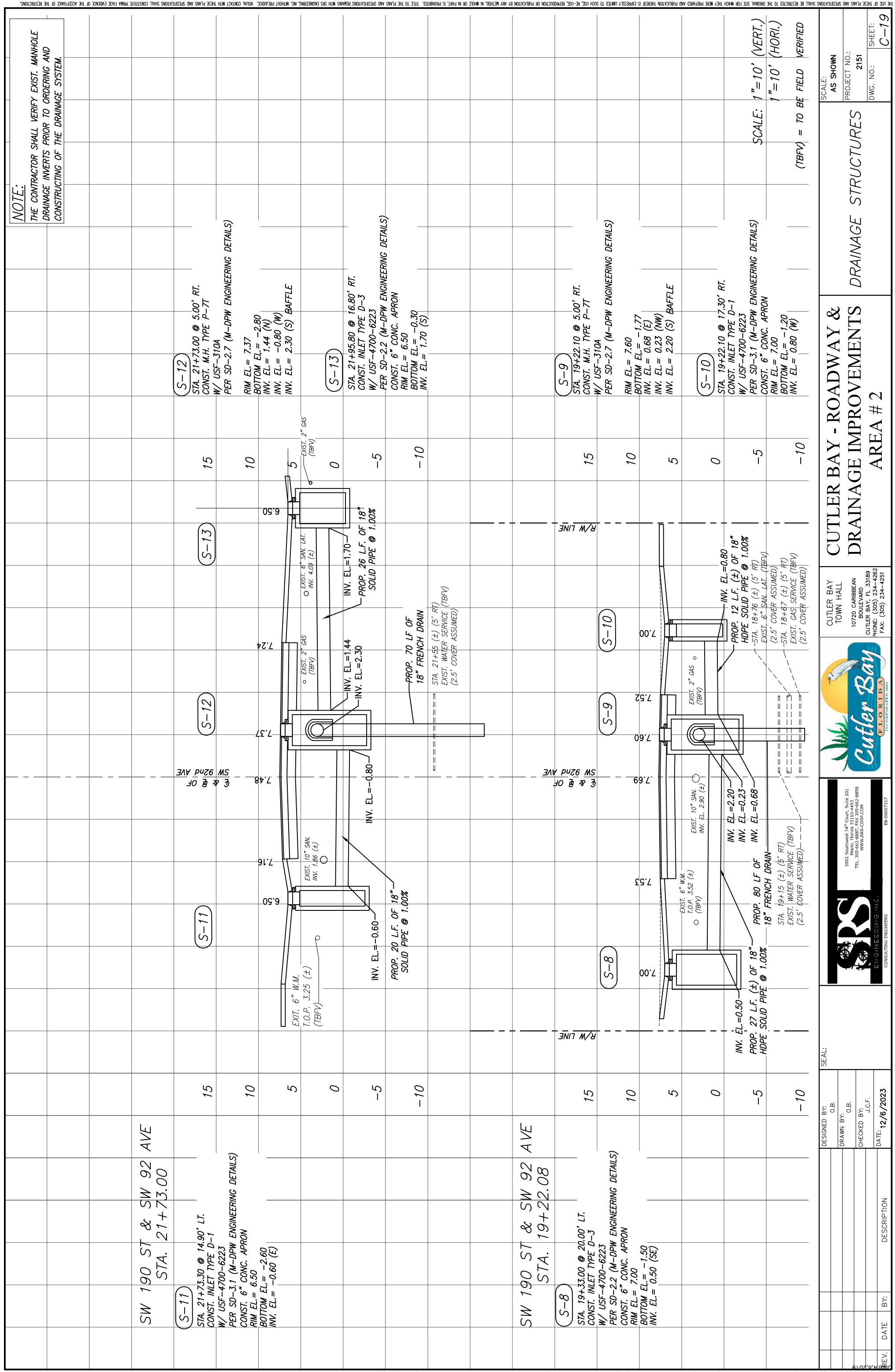
**EX-2**  
STA. 10+75.60 @ 18.10' RT.  
EXIST. C.B. TO REMAIN  
CONST. 6" CONC. APRON  
RIM EL.= 6.16

**EX-2**  
-EXIST. COMM. (TBFV)  
6.16

SCALE: 1"=10' (VERT.)  
1"=10' (HORI.)  
(TBFV) = TO BE FIELD VERIFIED

DESIGNED BY: C.B.	DRAWN BY: C.B.	CHECKED BY: J.C.F.	DATE: 12/6/2023	SEAL:			CUTLER BAY TOWN HALL 10720 CARIBBEAN BOULEVARD CUTLER BAY, FL 33189 PHONE: (305) 234-4262 FAX: (305) 234-4251	CUTLER BAY - ROADWAY & DRAINAGE IMPROVEMENTS AREA # 2	DRAINAGE STRUCTURES	SCALE: AS SHOWN
										PROJECT NO.: 2151





**NOTE:**  
THE CONTRACTOR SHALL VERIFY EXIST. MANHOLE DRAINAGE INVERTS PRIOR TO ORDERING AND CONSTRUCTING OF THE DRAINAGE SYSTEM.

**S-11**  
STA. 21+73.30 @ 14.90' LT.  
CONST. INLET TYPE D-1  
W/ USF-4700-6223  
PER SD-3.1 (M-DPW ENGINEERING DETAILS)  
CONST. 6" CONC. APRON  
RIM EL.= 6.50  
BOTTOM EL.= -2.60  
INV. EL.= -0.60 (E)

**S-12**  
STA. 21+73.00 @ 5.00' RT.  
CONST. M.H. TYPE P-77  
W/ USF-310A  
PER SD-2.7 (M-DPW ENGINEERING DETAILS)  
RIM EL.= 7.37  
BOTTOM EL.= -2.80  
INV. EL.= 1.44 (N)  
INV. EL.= -0.80 (W)  
INV. EL.= 2.30 (S) BAFFLE

**S-13**  
STA. 21+95.80 @ 16.80' RT.  
CONST. INLET TYPE D-3  
W/ USF-4700-6223  
PER SD-2.2 (M-DPW ENGINEERING DETAILS)  
CONST. 6" CONC. APRON  
RIM EL.= 6.50  
BOTTOM EL.= -0.30  
INV. EL.= 1.70 (S)

**S-8**  
STA. 19+33.00 @ 20.00' LT.  
CONST. INLET TYPE D-3  
W/ USF-4700-6223  
PER SD-2.2 (M-DPW ENGINEERING DETAILS)  
CONST. 6" CONC. APRON  
RIM EL.= 7.00  
BOTTOM EL.= -1.50  
INV. EL.= 0.50 (SE)

**S-9**  
STA. 19+22.10 @ 5.00' RT.  
CONST. M.H. TYPE P-77  
W/ USF-310A  
PER SD-2.7 (M-DPW ENGINEERING DETAILS)  
RIM EL.= 7.60  
BOTTOM EL.= -1.77  
INV. EL.= 0.68 (E)  
INV. EL.= 0.23 (NW)  
INV. EL.= 2.20 (S) BAFFLE

**S-10**  
STA. 19+22.10 @ 17.30' RT.  
CONST. INLET TYPE D-1  
W/ USF-4700-6223  
PER SD-3.1 (M-DPW ENGINEERING DETAILS)  
CONST. 6" CONC. APRON  
RIM EL.= 7.00  
BOTTOM EL.= -1.20  
INV. EL.= 0.80 (W)

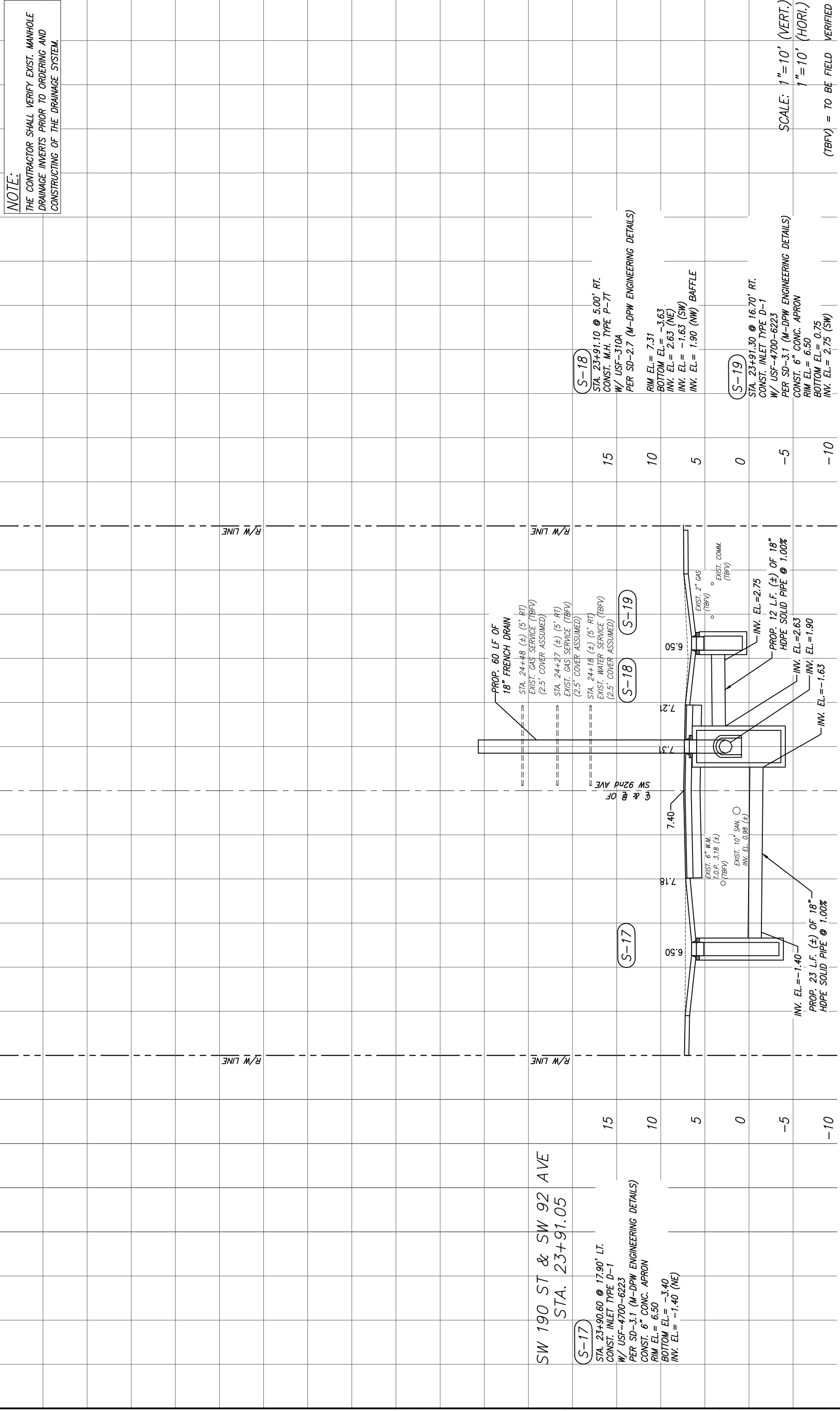
SCALE: 1"=10' (VERT.)  
1"=10' (HORI.)  
(TBFV) = TO BE FIELD VERIFIED

SW 190 ST & SW 92 AVE  
STA. 21+73.00

SW 190 ST & SW 92 AVE  
STA. 19+22.08

DESIGNED BY:	C.B.	DATE:	12/6/2023
DRAWN BY:	C.B.	PROJECT NO.:	2151
CHECKED BY:	J.C.F.	DWG. NO.:	
DATE:	12/6/2023	SHEET:	C-19
DESCRIPTION:	DRAINAGE STRUCTURES		
CUTLER BAY - ROADWAY & DRAINAGE IMPROVEMENTS AREA # 2		CUTLER BAY TOWN HALL 10720 CARIBBEAN BOULEVARD CUTLER BAY, FL 33189 PHONE: (305) 234-4262 FAX: (305) 234-4251	
<small>5001 Southside 7th Court, Suite 201 Miami, Florida 33155-4453 TEL: 305-662-8887 FAX: 305-662-8859 WWW.SRS-CON.COM</small>		<small>FLORIDA INCORPORATED</small>	
<small>EB-0007317</small>		<small>SEAL:</small>	

**NOTE:**  
THE CONTRACTOR SHALL VERIFY EXIST. MANHOLE  
DRAINAGE INVERTS PRIOR TO ORDERING AND  
CONSTRUCTING OF THE DRAINAGE SYSTEM.



SW 190 ST & SW 92 AVE  
STA. 23+91.05

**S-17**  
STA. 23+90.60 @ 17.90' LT.  
CONST. INLET TYPE D-1  
W/ USF-4700-6223  
PER SD-3.1 (M-DPW ENGINEERING DETAILS)  
CONST. 6" CONC. APRON  
RIM EL.= 6.50  
BOTTOM EL.= -3.40  
INV. EL.= -1.40 (NE)

15  
10  
5  
0  
-5  
-10

**S-18**  
STA. 24+18 (±) (5' RT)  
EXIST. WATER SERVICE (TBFV)  
(2.5' COVER ASSUMED)

**S-19**  
STA. 23+91.30 @ 16.70' RT.  
CONST. INLET TYPE D-1  
W/ USF-4700-6223  
PER SD-3.1 (M-DPW ENGINEERING DETAILS)  
RIM EL.= 7.31  
BOTTOM EL.= -3.63  
INV. EL.= 2.63 (NE)  
INV. EL.= -1.63 (SW)  
INV. EL.= 1.90 (NW) BAFFLE

PROP. 60 LF OF  
18" FRENCH DRAIN  
STA. 24+48 (±) (5' RT)  
EXIST. GAS SERVICE (TBFV)  
(2.5' COVER ASSUMED)

PROP. 12 L.F. (±) OF 18"  
HDPE SOLID PIPE @ 1.00%

EXIST. 6" I.W.M.  
T.O.P. 3.18 (±)  
EXIST. 10" S.W.  
INV. EL. 0.98 (±)

EXIST. 2" GAS  
EXIST. COMM.  
(TBFV)

INV. EL.= -1.40  
PROP. 23 L.F. (±) OF 18"  
HDPE SOLID PIPE @ 1.00%

INV. EL.= 2.63  
INV. EL.= 1.90  
INV. EL.= -1.63

SCALE: 1"=10' (VERT.)  
1"=10' (HORI.)  
(TBFV) = TO BE FIELD VERIFIED

DESIGNED BY:	C.B.	SEAL:	
DRAWN BY:	C.B.		
CHECKED BY:	J.C.F.		
DATE:	12/6/2023		
REV.	DATE	BY:	DESCRIPTION

**SRS**  
ENGINEERS, INC.  
CONSULTING ENGINEERS

5001 Southwest 74th Court, Suite 201  
Miami, Florida 33155-4453  
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WWW.SRS-CORP.COM

**Cutler Bay**  
FLORIDA  
INCORPORATED PART

CUTLER BAY  
TOWN HALL  
10720 CARIBBEAN  
BOULEVARD  
CUTLER BAY, FL 33189  
PHONE: (305) 234-4262  
FAX: (305) 234-4251

**CUTLER BAY - ROADWAY &  
DRAINAGE IMPROVEMENTS  
AREA # 2**

**DRAINAGE STRUCTURES**

SCALE: AS SHOWN  
PROJECT NO.: 2151  
DWG. NO.:  
SHEET: C-20

I:\Projects\2021\12151 - Cutler Bay Drainage Sub-Basins Roadway Improvements\Area 2\Design\AGE\_16\_29\_DRAINAGE STRUCTURES (Area 2).dwg - Plot







**NOTE:**  
THE CONTRACTOR SHALL VERIFY EXIST. MANHOLE  
DRAINAGE INVERTS PRIOR TO ORDERING AND  
CONSTRUCTING OF THE DRAINAGE SYSTEM.

SW 91 AVE & SW 187 TER  
STA. 19+27.02

**S-29**

STA. 19+28.00 @ 24.00' LT.  
CONST. INLET TYPE D-3  
W/ USF-4700-6223  
PER SD-2.2 (M-DPW ENGINEERING DETAILS)  
CONST. 6" CONC. APRON  
RIM EL.= 6.50  
BOTTOM EL.= -1.75  
INV. EL.= 0.25 (S)

**S-30**

STA. 19+27.00 @ 10.90' LT.  
CONST. M.H. TYPE P-7T  
W/ USF-310A  
PER SD-2.7 (M-DPW ENGINEERING DETAILS)  
RIM EL.= 7.27  
BOTTOM EL.= -1.88  
INV. EL.= 1.90 (E) BAFFLE  
INV. EL.= 0.12 (N)

STA. 19+64 (±) (7' LT)  
EXIST. 6" SAN. L.A.T. (TBFV)  
(2.5' COVER ASSUMED)  
STA. 19+57 (±) (7' LT)  
EXIST. WATER SERVICE (TBFV)  
(2.5' COVER ASSUMED)  
PROP. 60 LF OF 18"  
FRENCH DRAIN AND PROP.  
45 LF OF 18" SOLID PIPE

**S-29**

PROP. 13 L.F. (±) OF 18"  
HDPE SOLID PIPE @ 1.00%  
INV. EL.=0.25  
INV. EL.=1.90  
INV. EL.=0.12

**S-30**

EXIST. 6" W.M.  
T.O.P. 3.18 (±)  
(TBFV)  
EXIST. 10" SAN.  
INV. EL. 3.37 (±)

SW 91 AVE & SW 187 TER  
STA. 17+77.11

**S-26**

STA. 17+77.10 @ 17.40' LT.  
CONST. INLET TYPE D-1  
W/ USF-4700-6223  
PER SD-3.1 (M-DPW ENGINEERING DETAILS)  
CONST. 6" CONC. APRON  
RIM EL.= 6.50  
BOTTOM EL.= -2.00  
INV. EL.= 0.00 (S)

**S-26**

EXIST. 6" W.M.  
T.O.P. 3.03 (±)  
(TBFV)  
EXIST. 10" SAN.  
INV. EL. 2.18 (±)

**S-27**

EXIST. 2" GAS  
(TBFV)  
EXIST. 10" SAN.  
INV. EL. 1.69

**S-28**

PROP. 11 L.F. (±) OF 18"  
HDPE SOLID PIPE @ 1.00%  
INV. EL.=1.80  
INV. EL.=1.69  
INV. EL.=1.40

**S-27**

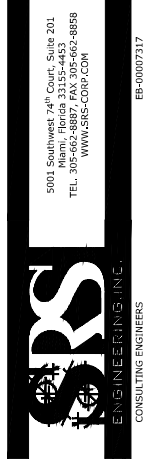
STA. 17+77.10 @ 5.00' RT.  
CONST. M.H. TYPE P-7T  
W/ USF-310A  
PER SD-2.7 (M-DPW ENGINEERING DETAILS)  
RIM EL.= 7.25  
BOTTOM EL.= -2.22  
INV. EL.= -0.22 (N)  
INV. EL.= 1.69 (S)  
INV. EL.= 1.40 (W) BAFFLE

**S-28**

STA. 17+77.10 @ 15.70' RT.  
CONST. INLET TYPE D-1  
W/ USF-4700-6223  
PER SD-3.1 (M-DPW ENGINEERING DETAILS)  
CONST. 6" CONC. APRON  
RIM EL.= 6.50  
BOTTOM EL.= -0.20  
INV. EL.= 1.80 (W)

SCALE: 1"=10' (VERT.)  
1"=10' (HORI.)  
(TBFV) = TO BE FIELD VERIFIED

DESIGNED BY:	C.B.		
DRAWN BY:	C.B.		
CHECKED BY:	J.C.F.		
DATE:	12/6/2023		
REV.	DATE	BY:	DESCRIPTION

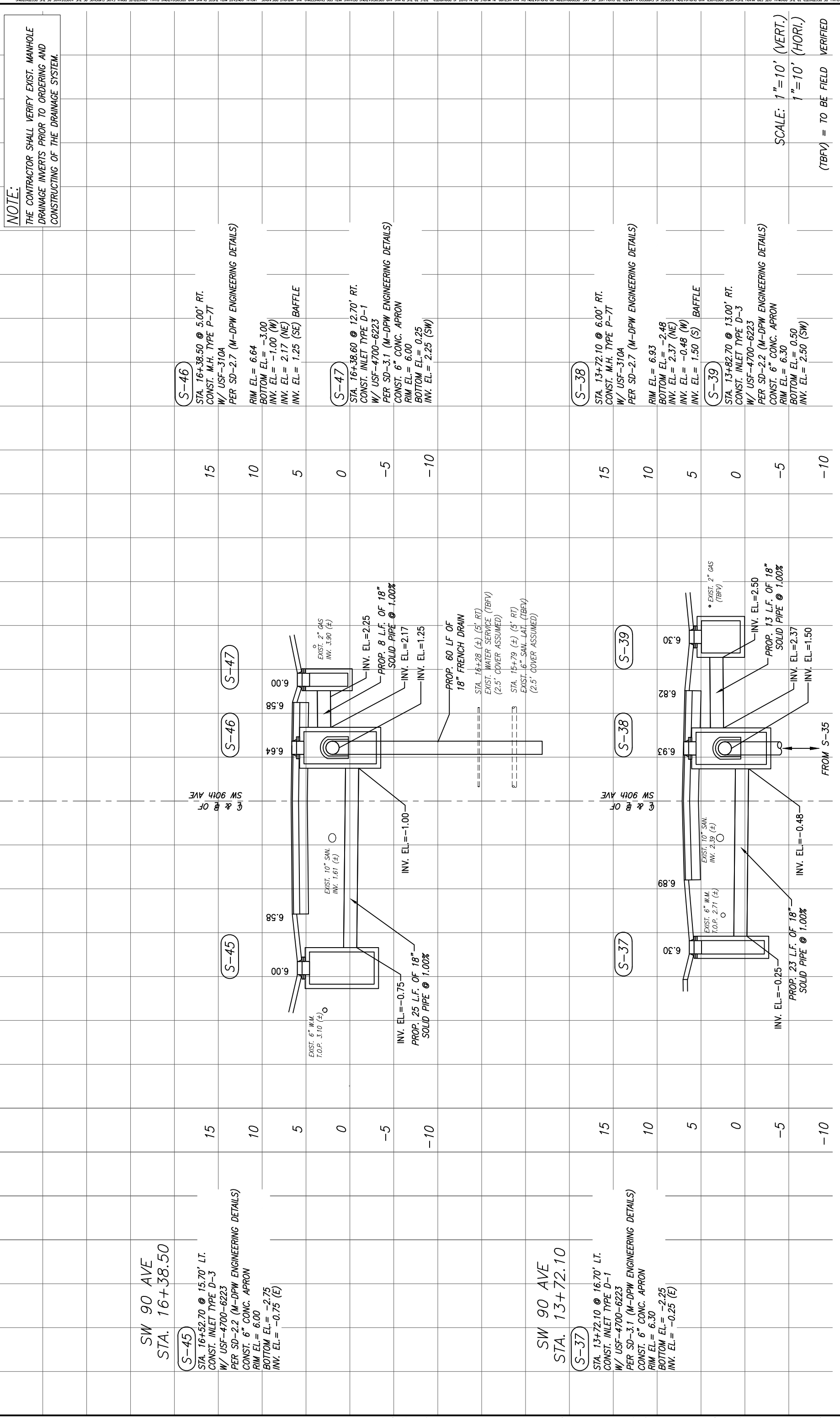


CUTLER BAY  
TOWN HALL  
10720 CARIBBEAN  
BOULEVARD  
CUTLER BAY, FL 33189  
PHONE: (305) 234-4262  
FAX: (305) 234-4251

CUTLER BAY - ROADWAY &  
DRAINAGE IMPROVEMENTS  
AREA # 2  
DRAINAGE STRUCTURES

SCALE:  
AS SHOWN  
PROJECT NO.:  
2151  
DWG. NO.:  
SHEET:  
C-23





15	S-45	SW 90 AVE STA. 16+52.70 @ 15.70' LT. CONST. INLET TYPE D-3 W/ USF-4700-6223 PER SD-2.2 (M-DPW ENGINEERING DETAILS) CONST. 6" CONC. APRON RIM EL.= 6.00 BOTTOM EL.= -2.75 INV. EL.= -0.75 (E)
10	S-46	SW 90th AVE STA. 16+38.50 @ 5.00' RT. CONST. M.H. TYPE P-7T W/ USF-310A PER SD-2.7 (M-DPW ENGINEERING DETAILS) RIM EL.= 6.64 BOTTOM EL.= -3.00 INV. EL.= -1.00 (W) INV. EL.= 2.17 (NE) INV. EL.= 1.25 (SE) BAFFLE
5	S-47	STA. 16+38.60 @ 12.70' RT. CONST. INLET TYPE D-1 W/ USF-4700-6223 PER SD-3.1 (M-DPW ENGINEERING DETAILS) CONST. 6" CONC. APRON RIM EL.= 6.00 BOTTOM EL.= 0.25 INV. EL.= 2.25 (SW)
0	S-45	EXIST. 6" M.M. T.O.P. 3.10 (±)
0	S-46	EXIST. 10" SAN. INV. 1.61 (±)
0	S-47	EXIST. 2" GAS INV. 3.90 (±)
-5	S-37	EXIST. 6" M.M. T.O.P. 2.71 (±)
-5	S-38	EXIST. 10" SAN. INV. 4.39 (±)
-5	S-39	EXIST. 2" GAS (TBFV)
-10	S-45	PROP. 25 L.F. OF 18" SOLID PIPE @ 1.00%
-10	S-46	INV. EL.= -1.00
-10	S-47	PROP. 8 L.F. OF 18" SOLID PIPE @ 1.00%
-10	S-37	PROP. 23 L.F. OF 18" SOLID PIPE @ 1.00%
-10	S-38	PROP. 60 L.F. OF 18" FRENCH DRAIN
-10	S-39	PROP. 13 L.F. OF 18" SOLID PIPE @ 1.00%

**NOTE:**  
THE CONTRACTOR SHALL VERIFY EXIST. MANHOLE DRAINAGE INVERTS PRIOR TO ORDERING AND CONSTRUCTING OF THE DRAINAGE SYSTEM.

SCALE: 1"=10' (VERT.)  
1"=10' (HORI.)  
(TBFV) = TO BE FIELD VERIFIED

DESIGNED BY:	C.B.	DATE:	12/6/2023
DRAWN BY:	C.B.	REV.	
CHECKED BY:	J.C.F.	DATE:	12/6/2023
BY:		DESCRIPTION:	

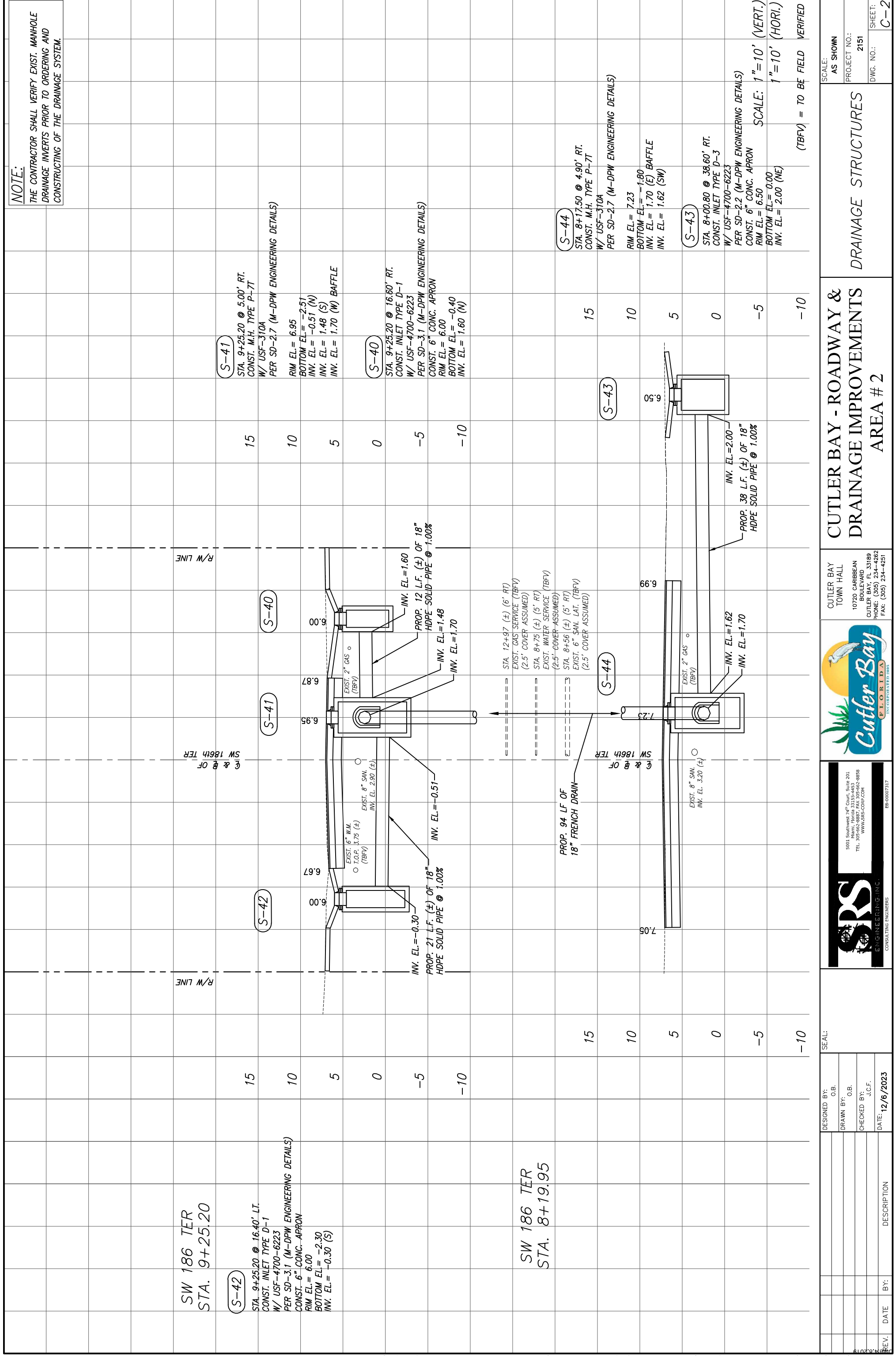
5001 Southwest 74th Court, Suite 201  
Miami, Florida 33155-4453  
TEL: 305-662-8887 FAX: 305-662-8859  
WWW.SRS-CON.COM

CUTLER BAY  
TOWN HALL  
10720 CARIBBEAN BOULEVARD  
CUTLER BAY, FL 33189  
PHONE: (305) 234-4262  
FAX: (305) 234-4251

CUTLER BAY - ROADWAY & DRAINAGE IMPROVEMENTS AREA # 2

DRAINAGE STRUCTURES

SCALE:	AS SHOWN
PROJECT NO.:	2151
DWG. NO.:	SHEET: C-25

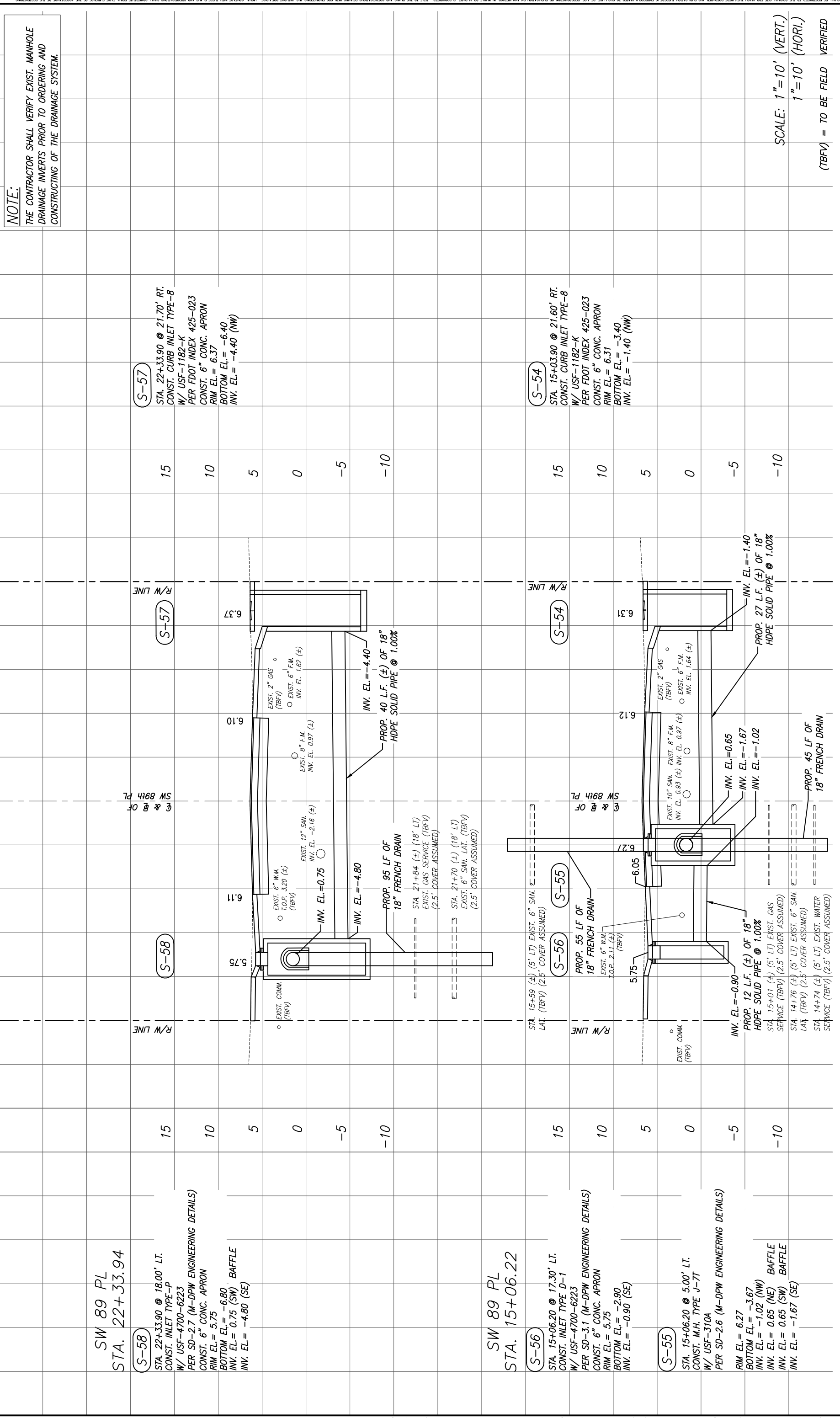


REV.	DATE	BY:	DESCRIPTION

DESIGNED BY: C.B.		SCALE: AS SHOWN	
DRAWN BY: C.B.		PROJECT NO.: 2151	
CHECKED BY: J.C.F.		DWG. NO.: C-26	
DATE: 12/6/2023		SHEET: C-26	
SEAL:		CUTLER BAY - ROADWAY & DRAINAGE IMPROVEMENTS AREA # 2	
5001 Southwest 74th Court, Suite 201 Miami, Florida 33155-4453 TEL: 305-662-8887 FAX: 305-662-8859 WWW.SRS-CORP.COM		CUTLER BAY TOWN HALL 10720 CARRIBBEAN BOULEVARD CUTLER BAY, FL 33189 PHONE: (305) 234-4262 FAX: (305) 234-4251	







**NOTE:**  
THE CONTRACTOR SHALL VERIFY EXIST. MANHOLE DRAINAGE INVERTS PRIOR TO ORDERING AND CONSTRUCTING OF THE DRAINAGE SYSTEM.

SCALE: 1"=10' (VERT.)  
1"=10' (HORI.)  
(TBFV) = TO BE FIELD VERIFIED

SW 89 PL  
STA. 22+33.94

**S-58**  
STA. 22+33.90 @ 18.00' LT.  
CONST. INLET TYPE-P  
W/ USF-4700-6223  
PER SD-2.7 (M-DPW ENGINEERING DETAILS)  
CONST. 6" CONC. APRON  
RIM EL.= 5.75  
BOTTOM EL.= -6.80  
INV. EL.= 0.75 (SW) BAFFLE  
INV. EL.= -4.80 (SE)

**S-57**  
STA. 22+33.90 @ 21.70' RT.  
CONST. CURB INLET TYPE-8  
W/ USF-1182-K  
PER FDOT INDEX 425-023  
CONST. 6" CONC. APRON  
RIM EL.= 6.37  
BOTTOM EL.= -6.40  
INV. EL.= -4.40 (NW)

SW 89 PL  
STA. 15+06.22

**S-56**  
STA. 15+06.20 @ 17.30' LT.  
CONST. INLET TYPE D-1  
W/ USF-4700-6223  
PER SD-3.1 (M-DPW ENGINEERING DETAILS)  
CONST. 6" CONC. APRON  
RIM EL.= 5.75  
BOTTOM EL.= -2.90  
INV. EL.= -0.90 (SE)

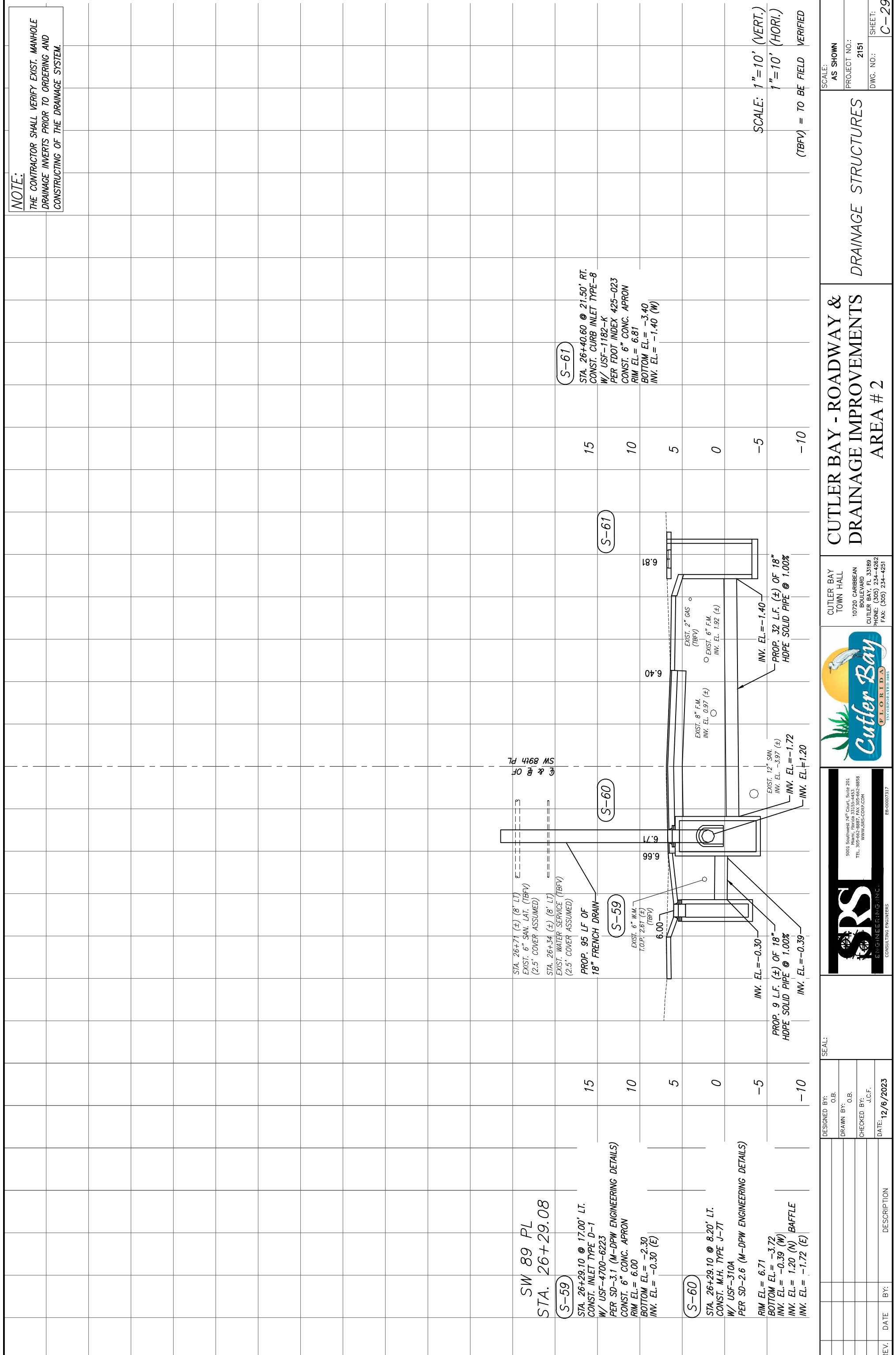
**S-54**  
STA. 15+03.90 @ 21.60' RT.  
CONST. CURB INLET TYPE-8  
W/ USF-1182-K  
PER FDOT INDEX 425-023  
CONST. 6" CONC. APRON  
RIM EL.= 6.31  
BOTTOM EL.= -3.40  
INV. EL.= -1.40 (NW)

**S-55**  
STA. 15+06.20 @ 5.00' LT.  
CONST. M.H. TYPE J-7T  
W/ USF-310A  
PER SD-2.6 (M-DPW ENGINEERING DETAILS)  
RIM EL.= 6.27  
BOTTOM EL.= -3.67  
INV. EL.= -1.02 (NW) BAFFLE  
INV. EL.= 0.65 (NE) BAFFLE  
INV. EL.= 0.65 (SW) BAFFLE  
INV. EL.= -1.67 (SE)

**S-55**  
STA. 15+59 (±) (5' LT) EXIST. 6" SAN. LAT. (TBFV) (2.5' COVER ASSUMED)  
STA. 21+84 (±) (18' LT) EXIST. GAS SERVICE (TBFV) (2.5' COVER ASSUMED)  
STA. 21+70 (±) (18' LT) EXIST. 6" SAN. LAT. (TBFV) (2.5' COVER ASSUMED)

DESIGNED BY:	C.B.	DATE:	12/6/2023
DRAWN BY:	C.B.	BY:	DESCRIPTION
CHECKED BY:	J.C.F.		
<b>CUTLER BAY - ROADWAY &amp; DRAINAGE IMPROVEMENTS AREA # 2</b>			
<b>CUTLER BAY TOWN HALL</b> 10720 CARIBBEAN BOULEVARD CUTLER BAY, FL 33189 PHONE: (305) 234-4262 FAX: (305) 234-4251			
<b>CUTLER BAY - ROADWAY &amp; DRAINAGE IMPROVEMENTS AREA # 2</b>			
<b>DRAINAGE STRUCTURES</b>			
SCALE: AS SHOWN			
PROJECT NO.: 2151			
DWG. NO.: SHEET: C-28			

**NOTE:**  
THE CONTRACTOR SHALL VERIFY EXIST. MANHOLE  
DRAINAGE INVERTS PRIOR TO ORDERING AND  
CONSTRUCTING OF THE DRAINAGE SYSTEM.



SCALE: 1"=10' (VERT.)  
1"=10' (HORI.)  
(TBFY) = TO BE FIELD VERIFIED

DESIGNED BY:	C.B.	SEAL:	
DRAWN BY:	C.B.		
CHECKED BY:	J.C.F.		
DATE:	12/6/2023		
REV.	DATE	BY:	DESCRIPTION



**SRS**  
CONSULTING ENGINEERS

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Miami, Florida 33155-4453  
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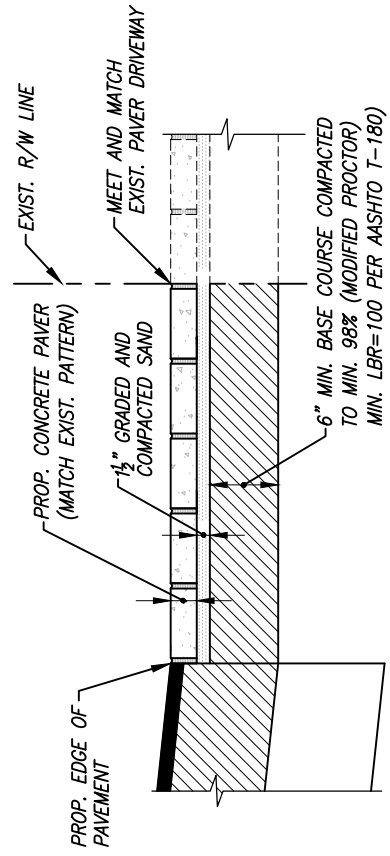
**Cutler Bay**  
FLORIDA  
INCORPORATED PART

**CUTLER BAY - ROADWAY &  
DRAINAGE IMPROVEMENTS  
AREA # 2**

CUTLER BAY  
TOWN HALL  
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BOULEVARD  
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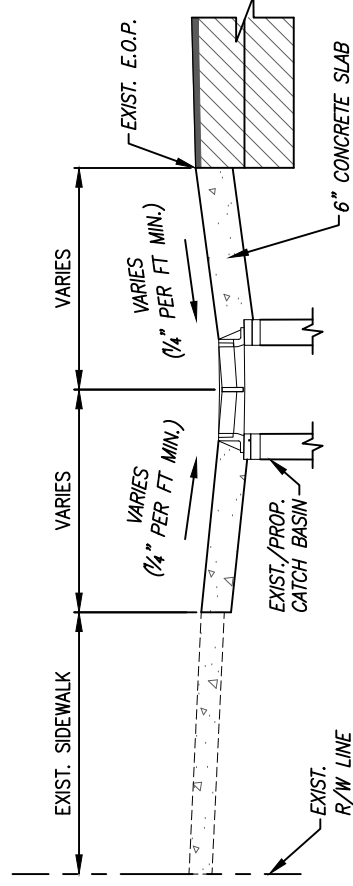
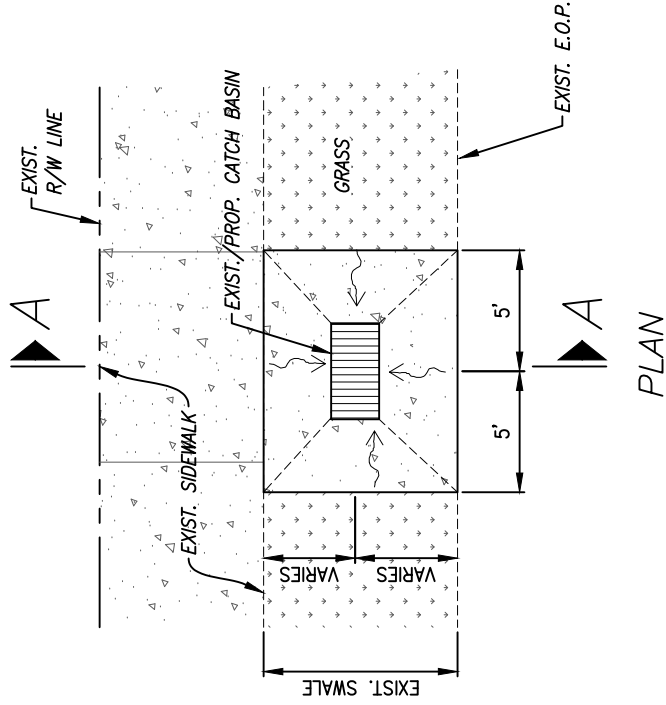
**DRAINAGE STRUCTURES**

SCALE: AS SHOWN  
PROJECT NO.: 2151  
DWG. NO.:  
SHEET: C-29



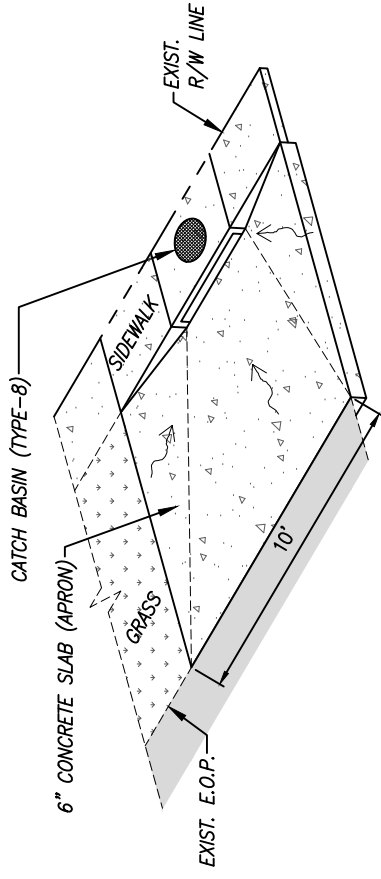
PAVER DRIVEWAY RESTORATION DETAIL

N.T.S.



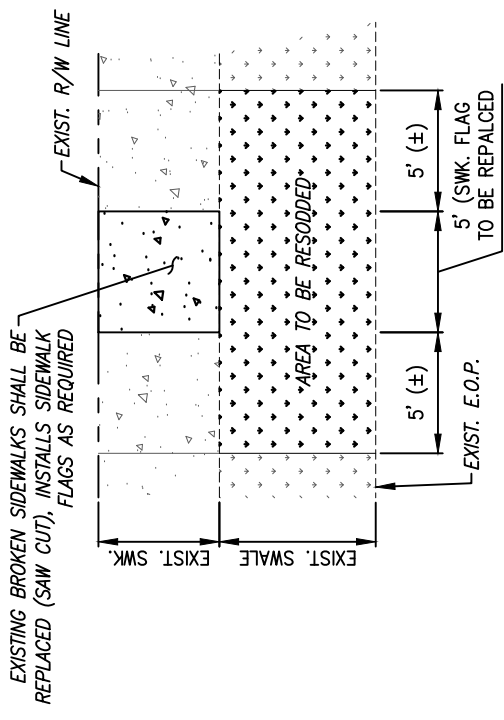
6" CONCRETE APRON DETAIL

N.T.S.



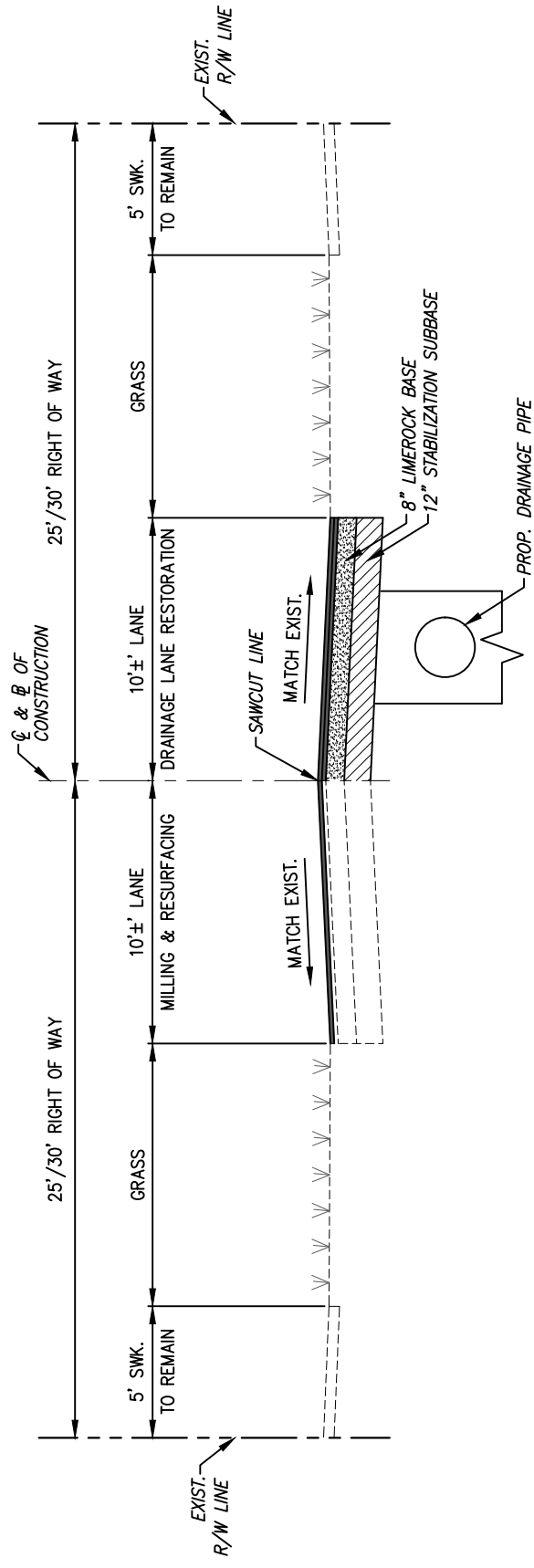
INLET DETAIL STRUCTURE (APRON)

N.T.S.



SIDEWALK FLAG REPLACEMENT DETAIL

N.T.S.



MILLING AND RESURFACING  
 MILLING EXISTING ASPHALT PAVEMENT (1/2" AVERAGE) RESURFACING WITH 1 LIFTS 1" OF SP-9.5 ASPHALTIC CONCRETE SURFACE COURSE (INSTALL W/ THE SECOND LIFT OF THE PAVEMENT RESTORATION)

TRENCH RESTORATION (DRAINAGE)  
 12" STABILIZED SUBBASE, COMPACTED TO MIN. 98%, MIN. LBR=40, PER AASHTO T-180  
 8" LIMEROCK BASE COURSE COMPACTED TO MIN. 98% (MODIFIED PROCTOR) MIN. LBR=100 PER AASHTO T-180

2 LIFTS OF (1") SP-9.5 ASPHALTIC CONCRETE SURFACE COURSE

TYPICAL SECTION

N.T.S.

REV.	DATE	BY:	DESCRIPTION

DESIGNED BY:	C.B.
DRAWN BY:	C.B.
CHECKED BY:	J.C.F.
DATE:	12/6/2023

SEAL:

5001 Southwest 74th Court, Suite 201  
 Miami, Florida 33155-4453  
 TEL: 305-662-8887 FAX: 305-662-8858  
 WWW.SRS-CORP.COM

CUTLER BAY TOWN HALL  
 10720 CARIBBEAN BOULEVARD  
 CUTLER BAY, FL 33189  
 PHONE: (305) 234-4262  
 FAX: (305) 234-4251



CUTLER BAY - ROADWAY & DRAINAGE IMPROVEMENTS AREA # 2

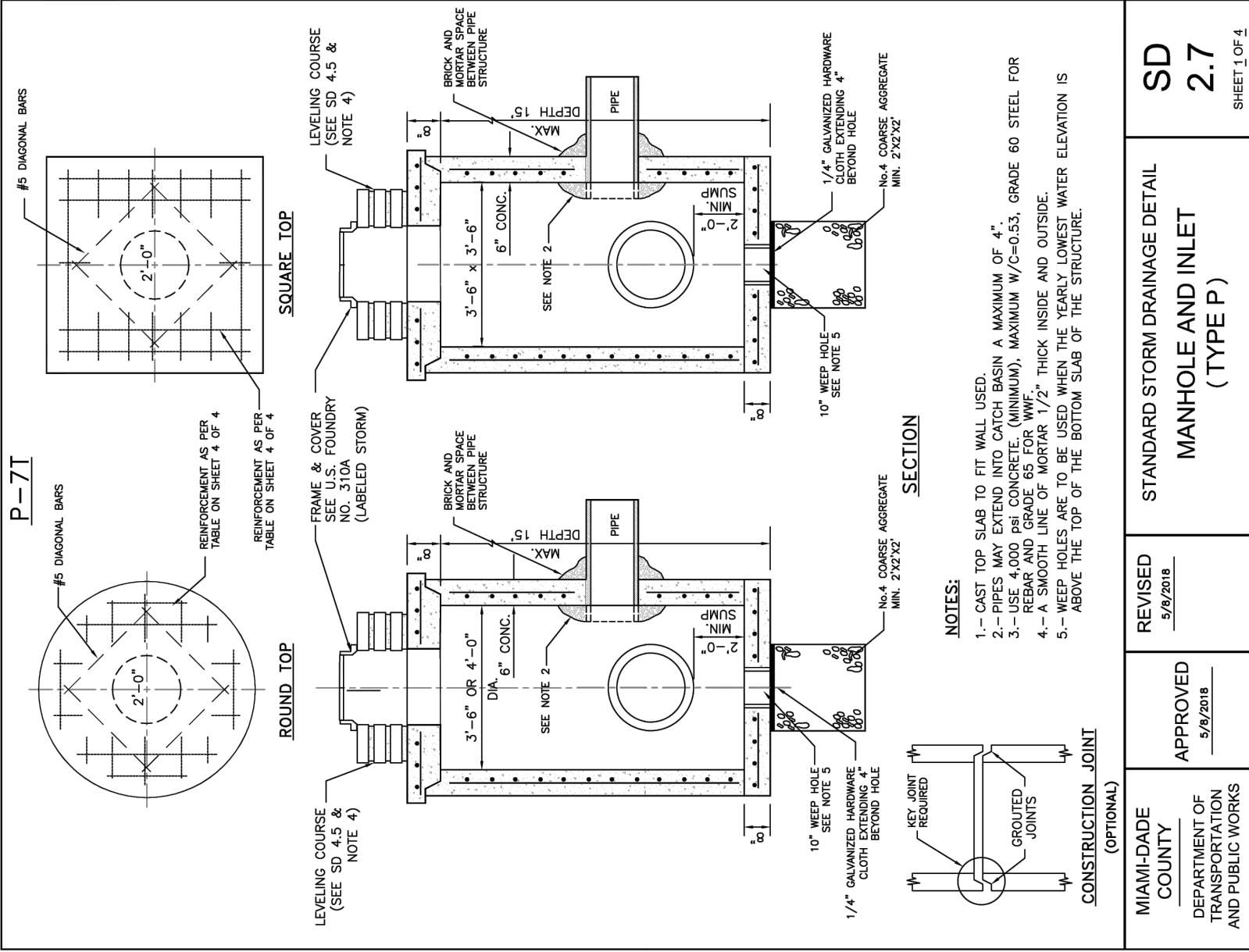
MISCELLANEOUS DETAILS

SCALE: AS SHOWN  
 PROJECT NO.: 2151  
 DWG. NO.:  
 SHEET: C-30









MIAMI-DADE COUNTY DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS	APPROVED 5/8/2018	REVISED 5/8/2018	STANDARD STORM DRAINAGE DETAIL MANHOLE AND INLET (TYPE P)	SD 2.7	SHEET 1 OF 4
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POLLUTION CONTROL STRUCTURE											
Standard Detail	Width (ft)	Length (ft)	Height (ft)	Wall Thickness (in)	Top Slab Thickness (in)	Wall Steel	Top Slab Thickness (in)	Top Slab Steel	Bottom Slab Thickness (in)	Bottom Slab Steel	Bottom Slab Overhang (in)
5.2-3C	8.0	14.0	0.0 - 5.0	10.0	10.0	#5@9.5"H #4@10"V	10.0	#6@6" E.W.	10.0	#4@8" E.W.	12.0
5.2-3C	8.0	14.0	5.1 - 10.0	10.0	10.0	#7@9"H #4@10"V	10.0	#6@6" E.W.	10.0	#4@8" E.W.	12.0
5.2-3C	8.0	14.0	10.1 - 15.0	10.0	10.0	#8@8"H #4@10"V	10.0	#6@6" E.W.	10.0	#4@8" E.W.	12.0
5.2-2C	8.0	9.0	0.0 - 5.0	8.0	10.0	#5@9.5"H #4@10"V	10.0	#6@6" E.W.	10.0	#4@8" E.W.	12.0
5.2-2C	8.0	9.0	5.1 - 10.0	8.0	10.0	#7@9"H #4@10"V	10.0	#6@6" E.W.	10.0	#4@8" E.W.	12.0
5.2-2C	8.0	9.0	10.1-15.0	8.0	10.0	#8@8"H #4@10"V	10.0	#6@6" E.W.	10.0	#4@8" E.W.	12.0

5.2-3C - POLLUTION CONTROL STRUCTURE 3 CHAMBER  
5.2-2C - POLLUTION CONTROL STRUCTURE 2 CHAMBER

MIAMI-DADE COUNTY DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS	APPROVED 5/8/2018	REVISED 5/8/2018	STANDARD STORM DRAINAGE DETAIL POLLUTION CONTROL STRUCTURE	SD 5.2	SHEET 4 OF 4
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REV.	DATE	BY:	DESCRIPTION



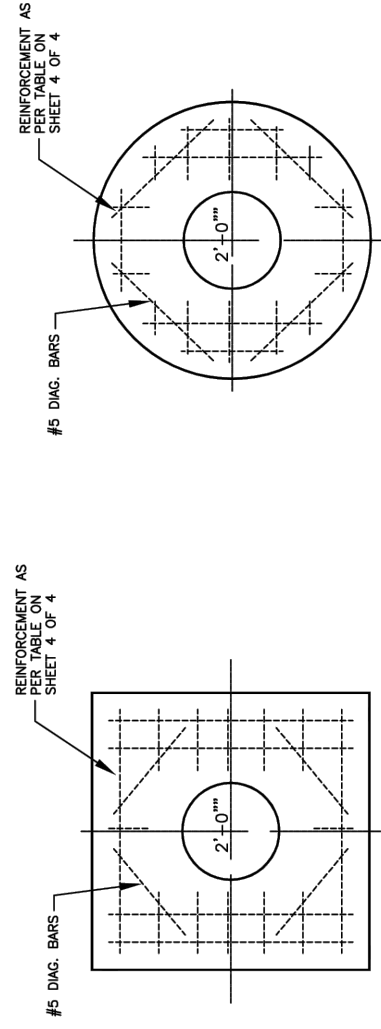
CUTLER BAY TOWN HALL  
10720 CARIBBEAN BOULEVARD  
CUTLER BAY, FL 33189  
PHONE: (305) 234-4262  
FAX: (305) 234-4251

CUTLER BAY - ROADWAY & DRAINAGE IMPROVEMENTS AREA # 2

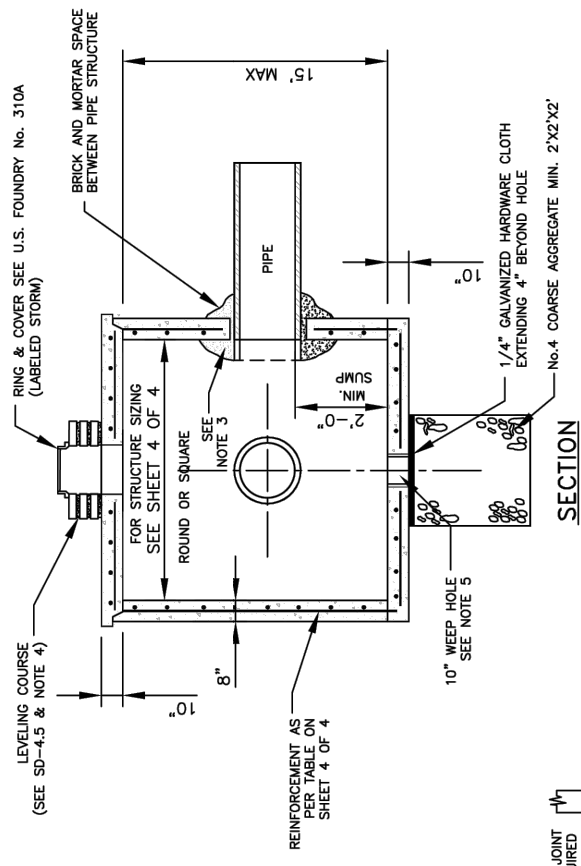
SCALE: AS SHOWN  
PROJECT NO.: 2151  
DWG. NO.:  
SHEET: C-33



J-7I



**SQUARE TOP**  
**ROUND TOP**



- NOTES:**
- 1.- CAST TOP SLAB TO FIT WALL USED.
  - 2.- USE 4,000 psi CONCRETE. (MINIMUM), MAXIMUM W/C=0.53, GRADE 60 STEEL FOR REBAR AND GRADE 65 FOR WWF.
  - 3.- PIPES MAY EXTEND INTO CATCH BASIN A MAXIMUM OF 4".
  - 4.- APPLY A SMOOTH LINE OF MORTAR 1/2" THICK INSIDE AND OUTSIDE.
  - 5.- WEEP HOLES ARE TO BE USED WHEN THE YEARLY LOWEST WATER ELEVATION IS ABOVE THE TOP OF THE BOTTOM SLAB OF THE STRUCTURE.

MIAMI-DADE COUNTY DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS	APPROVED 5/8/2018	REVISED 5/8/2018 9/16/2013 9/26/2012 8/3/2011	STANDARD STORM DRAINAGE DETAIL <b>MANHOLE AND INLET (TYPE J)</b>	<b>SD 2.6</b> SHEET 1 OF 4
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**SQUARE STRUCTURE**

Standard Detail	Width (ft) Min.	Length (ft) Max.	Height (ft)	Wall Thickness (in)	Wall Steel	Top Slab Thickness (in)	Top Slab Steel	Bottom Slab Thickness (in)	Bottom Slab Steel
2.6	8	8	0.0 - 5.0	8	#4@7"H #4@10"V	10	#6@6" E.W.	10	#5@8.5" E.W.
2.6	8	8	5.1 - 10.0	8	#6@7.5"H #4@10"V	10	#6@6" E.W.	10	#5@8.5" E.W.
2.6	8	8	10.1 - 15.0	8	#7@7"H #4@10"V	10	#6@6" E.W.	10	#5@8.5" E.W.

**ROUND STRUCTURE**

Standard Detail	Dia. (ft) Min.	Dia. (ft) Max.	Height (ft)	Wall Thickness (in)	Wall Steel	Top Slab Thickness (in)	Top Slab Steel	Bottom Slab Thickness (in)	Bottom Slab Steel
2.6	5	7	0.0 - 5.0	8	8 x 8 W/20 OR #4@10"E.W.	10	#6@6" E.W.	10	#5@8.5" E.W.
2.6	5	7	5.1 - 10.0	8	8 x 8 W/20 OR #4@10"E.W.	10	#6@6" E.W.	10	#5@8.5" E.W.
2.6	5	7	10.1 - 15.0	8	8 x 8 W/20 OR #4@10"E.W.	10	#6@6" E.W.	10	#5@8.5" E.W.

MIAMI-DADE COUNTY DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS	APPROVED 5/8/2018	REVISED 5/8/2018 11/26/2012 8/3/2011	STANDARD STORM DRAINAGE DETAIL <b>MANHOLE AND INLET (TYPE J)</b>	<b>SD 2.6</b> SHEET 4 OF 4
--	----------------------	---	---	-------------------------------

REV.	DATE	BY:	DESCRIPTION

DESIGNED BY: C.B.  
DRAWN BY: C.B.  
CHECKED BY: J.C.F.  
DATE: 12/6/2023

SEAL:

5001 Southwest 74<sup>th</sup> Court, Suite 201  
Miami, Florida 33155-4453  
TEL: 305-662-8887 FAX: 305-662-8858  
WWW.SRS-CORP.COM

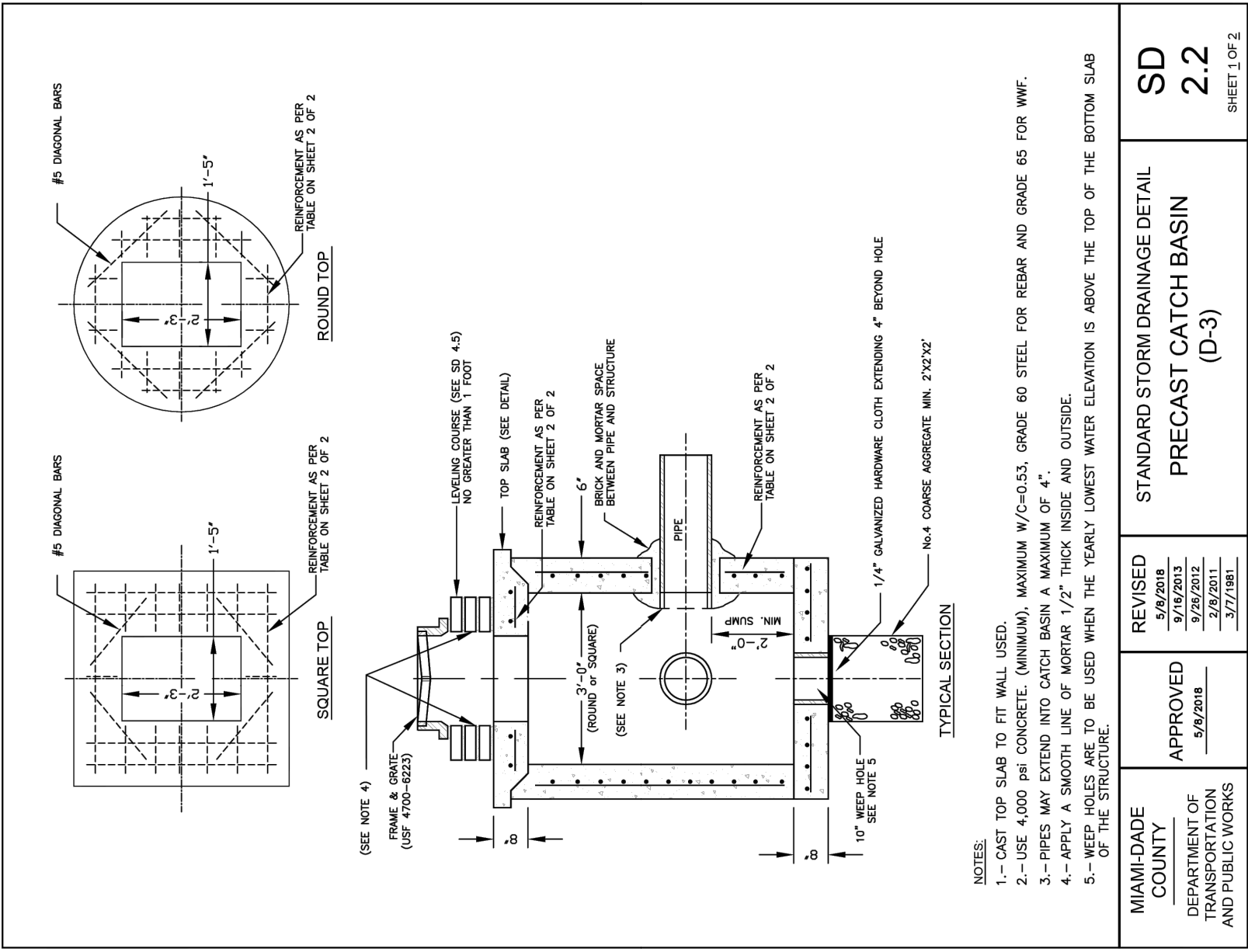
CUTLER BAY  
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CUTLER BAY, FL 33189  
PHONE: (305) 234-4262  
FAX: (305) 234-4251

**CUTLER BAY - ROADWAY & DRAINAGE IMPROVEMENTS AREA # 2**

MISCELLANEOUS DETAILS

SCALE: AS SHOWN  
PROJECT NO.: 2151  
DWG. NO.:  
SHEET: C-34





- NOTES:**
- 1.- CAST TOP SLAB TO FIT WALL USED.
  - 2.- USE 4,000 psi CONCRETE, (MINIMUM), MAXIMUM W/C=0.53, GRADE 60 STEEL FOR REBAR AND GRADE 65 FOR WWF.
  - 3.- PIPES MAY EXTEND INTO CATCH BASIN A MAXIMUM OF 4".
  - 4.- APPLY A SMOOTH LINE OF MORTAR 1/2" THICK INSIDE AND OUTSIDE.
  - 5.- WEEP HOLES ARE TO BE USED WHEN THE YEARLY LOWEST WATER ELEVATION IS ABOVE THE TOP OF THE BOTTOM SLAB OF THE STRUCTURE.

MIAMI-DADE COUNTY DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS	APPROVED 5/8/2018	REVISED 5/8/2018 9/16/2013 9/26/2012 2/8/2011 3/7/1981	STANDARD STORM DRAINAGE DETAIL PRECAST CATCH BASIN (D-3)	SD 2.2 SHEET 1 OF 2
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POLLUTION CONTROL STRUCTURE										
Standard Detail	Width (ft)	Length (ft)	Height (ft)	Wall Thickness (in)	Wall Steel	Top Slab Thickness (in)	Top Slab Steel	Bottom Slab Thickness (in)	Bottom Slab Steel	Bottom Slab Overhang (in)
5.2-3C	8.0	14.0	0.0 - 5.0	10.0	#5@9.5"H #4@10"V	10.0	#6@6" E.W.	10.0	#4@8" E.W.	12.0
5.2-3C	8.0	14.0	5.1 - 10.0	10.0	#7@9"H #4@10"V	10.0	#6@6" E.W.	10.0	#4@8" E.W.	12.0
5.2-3C	8.0	14.0	10.1 - 15.0	10.0	#8@8"H #4@10"V	10.0	#6@6" E.W.	10.0	#4@8" E.W.	12.0
5.2-2C	8.0	9.0	0.0 - 5.0	8.0	#5@9.5"H #4@10"V	10.0	#6@6" E.W.	10.0	#4@8" E.W.	12.0
5.2-2C	8.0	9.0	5.1 - 10.0	8.0	#7@9"H #4@10"V	10.0	#6@6" E.W.	10.0	#4@8" E.W.	12.0
5.2-2C	8.0	9.0	10.1-15.0	8.0	#8@8"H #4@10"V	10.0	#6@6" E.W.	10.0	#4@8" E.W.	12.0

5.2-3C - POLLUTION CONTROL STRUCTURE 3 CHAMBER  
5.2-2C - POLLUTION CONTROL STRUCTURE 2 CHAMBER

MIAMI-DADE COUNTY DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS	APPROVED 5/8/2018	REVISED 5/8/2018	STANDARD STORM DRAINAGE DETAIL POLLUTION CONTROL STRUCTURE	SD 5.2 SHEET 4 OF 4
--	----------------------	---------------------	---	---------------------------

REV.	DATE	BY:	DESCRIPTION

DESIGNED BY: C.B.  
DRAWN BY: C.B.  
CHECKED BY: J.C.F.  
DATE: 12/6/2023

SEAL:

5001 Southwest 74<sup>th</sup> Court, Suite 201  
Miami, Florida 33155-4453  
TEL: 305-662-8887 FAX: 305-662-8888  
WWW.SRS-CORP.COM

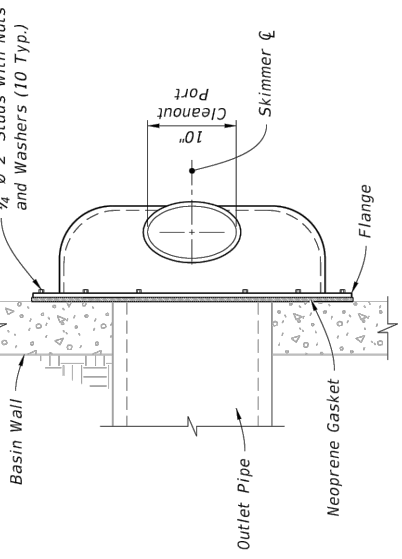
EB-00007317

CUTLER BAY TOWN HALL  
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PHONE: (305) 234-4262  
FAX: (305) 234-4251

CUTLER BAY - ROADWAY & DRAINAGE IMPROVEMENTS AREA # 2

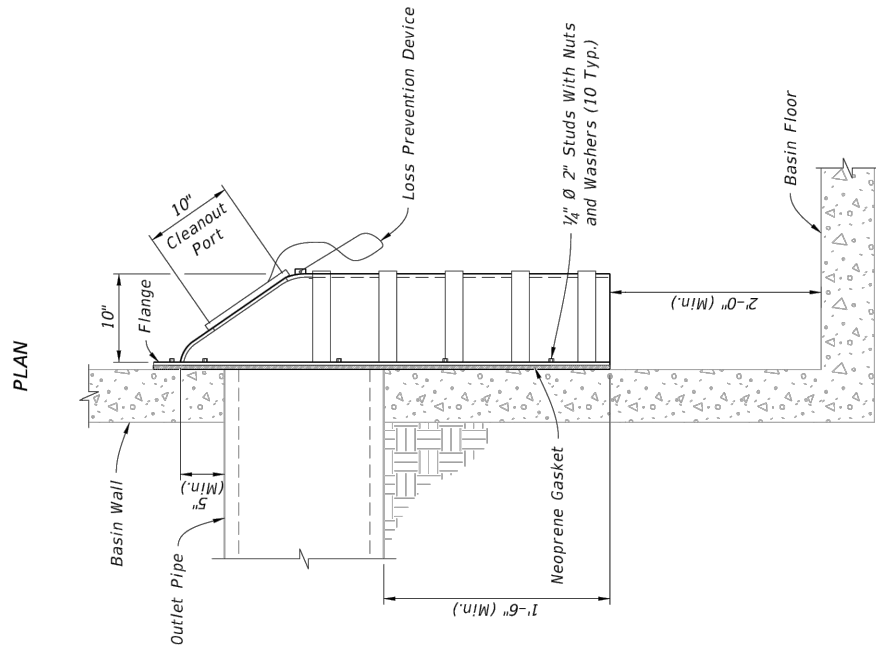
MISCELLANEOUS DETAILS

SCALE: AS SHOWN  
PROJECT NO.: 2151  
DWG. NO.:  
SHEET: C-35

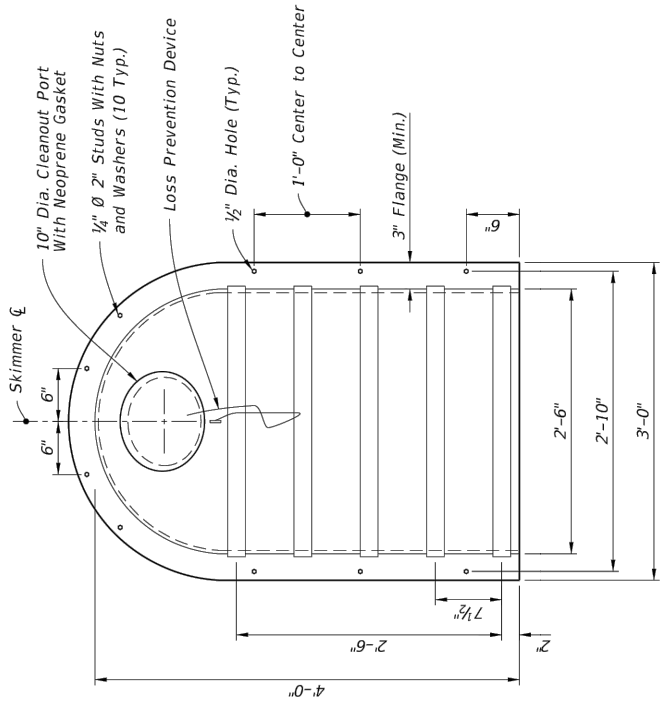


**NOTE:**

1. Install a gasket for the cleanout with either a threaded screw-in lid or a lid secured by four stainless steel quick-release latches.



SIDE ELEVATION



FRONT ELEVATION

TYPE II DETAILS

**BAFFLE DETAIL (FDOT INDEX 443-002)**

N.T.S.

SEAL:

DESIGNED BY: C.B.  
 DRAWN BY: C.B.  
 CHECKED BY: J.C.F.  
 DATE: 12/6/2023

REV.	DATE	BY:	DESCRIPTION

5001 Southwest 74<sup>th</sup> Court, Suite 201  
 Miami, Florida 33155-4453  
 TEL: 305-662-8887 FAX: 305-662-8858  
 WWW.SRS-CORP.COM

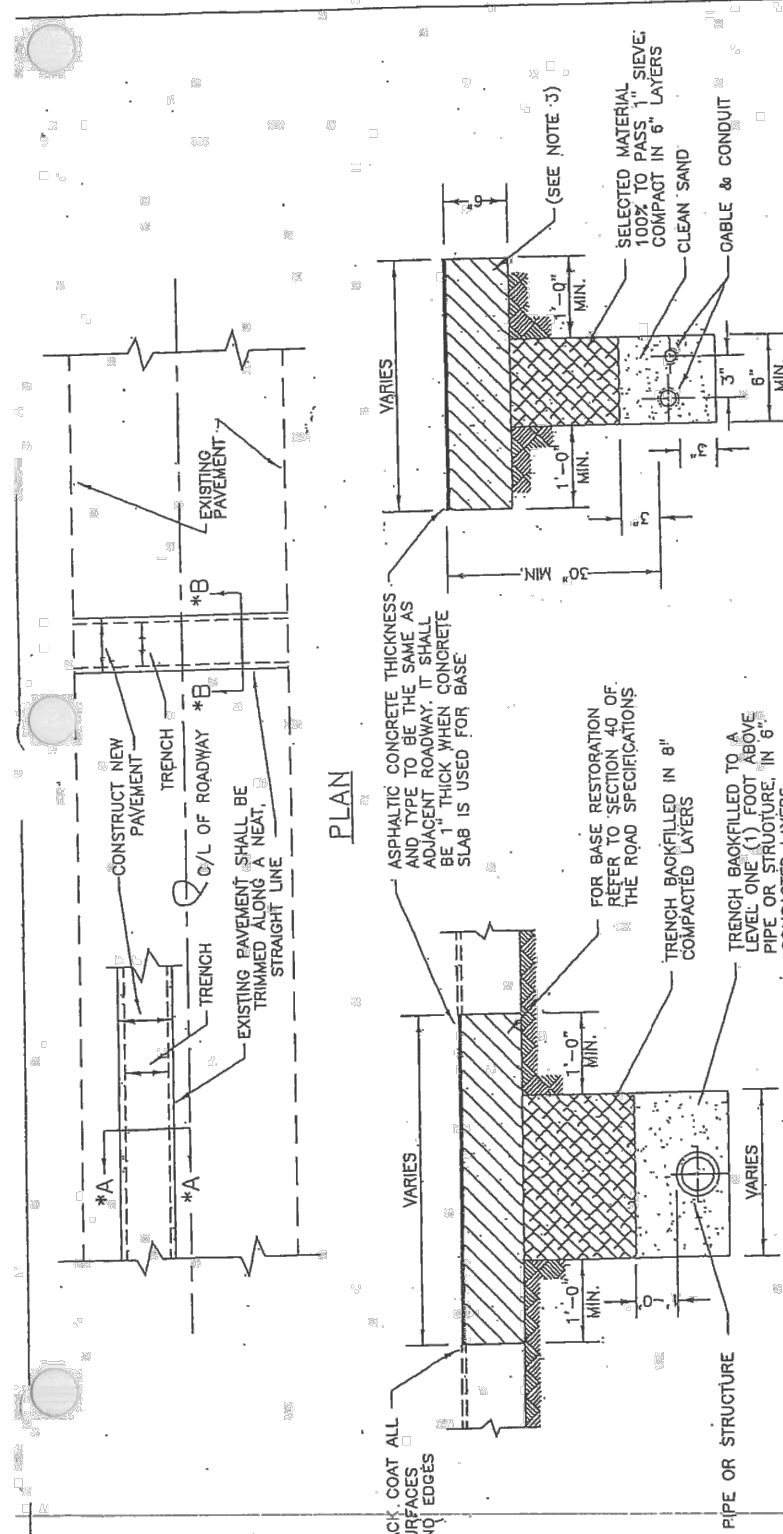
EB-00007317

CUTLER BAY TOWN HALL  
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 FAX: (305) 234-4251

**CUTLER BAY - ROADWAY & DRAINAGE IMPROVEMENTS AREA # 2**

**MISCELLANEOUS DETAILS**

SCALE: AS SHOWN  
 PROJECT NO.: 2151  
 DWG. NO.:  
 SHEET: C-36



**SECTION A-A & B-B**

- NOTES:**
- 1.- PAVEMENT RESTORATION FOR LONGITUDINAL CUTS SHALL INCLUDE FULL LANE WIDTH RESURFACING FOR EACH LANE WITHIN WHICH THE CUT EXTENDS. IN SOME CASES IT WILL BE NECESSARY TO OVERLAY MORE THAN ONE (1) LANE WITH ASPHALTIC CONCRETE TO SATISFY PAVEMENT SLOPE. CONTRACTOR MAY ELECT TO BACKFILL WITH 1:1:1 SAND-CEMENT MIX.
  - 2.- TRENCH BACKFILL TO A LEVEL ONE (1) FOOT ABOVE PIPE OR STRUCTURE. IN 6" COMPACTED LAYERS.
  - 3.- TRENCH BACKFILLED IN 8" COMPACTED LAYERS.

ITEM	CROSS REF.	SPEC. REF.
METROPOLITAN DADE COUNTY PUBLIC WORKS DEPARTMENT		
APPROVED	6/5/61	
REVISED	5/17/72	
	7/14/80	
	6/4/86	

**STANDARD ROAD DETAIL PAVEMENT RESTORATION FOR TRENCHES CUT IN PUBLIC RIGHTS-OF-WAY**

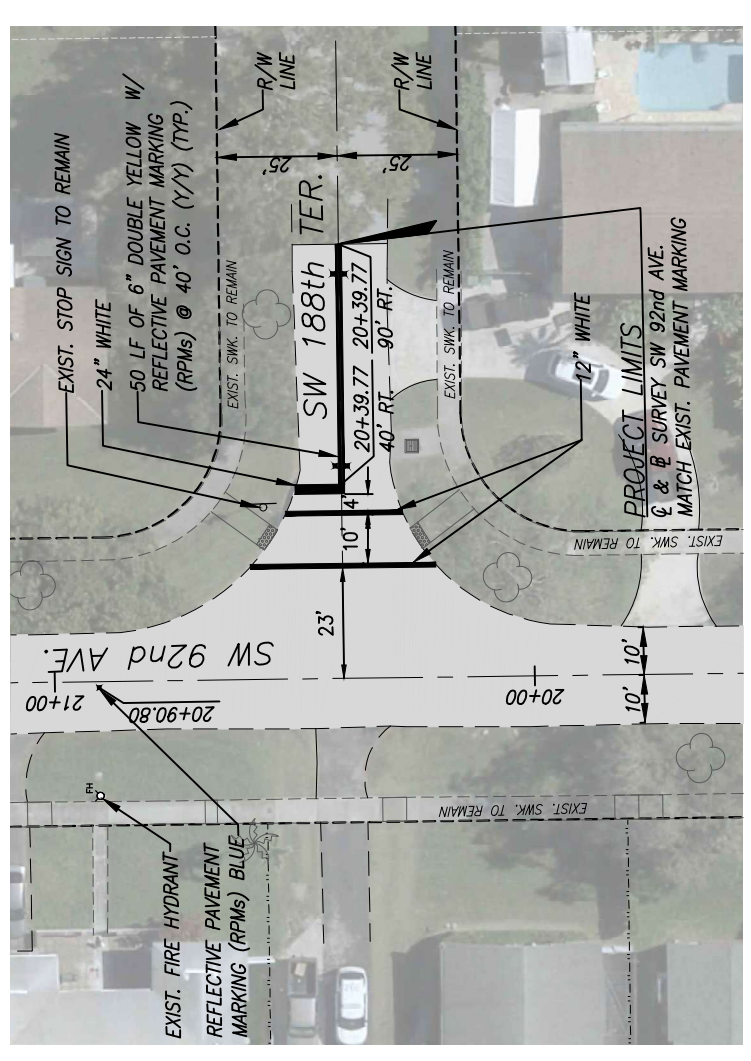
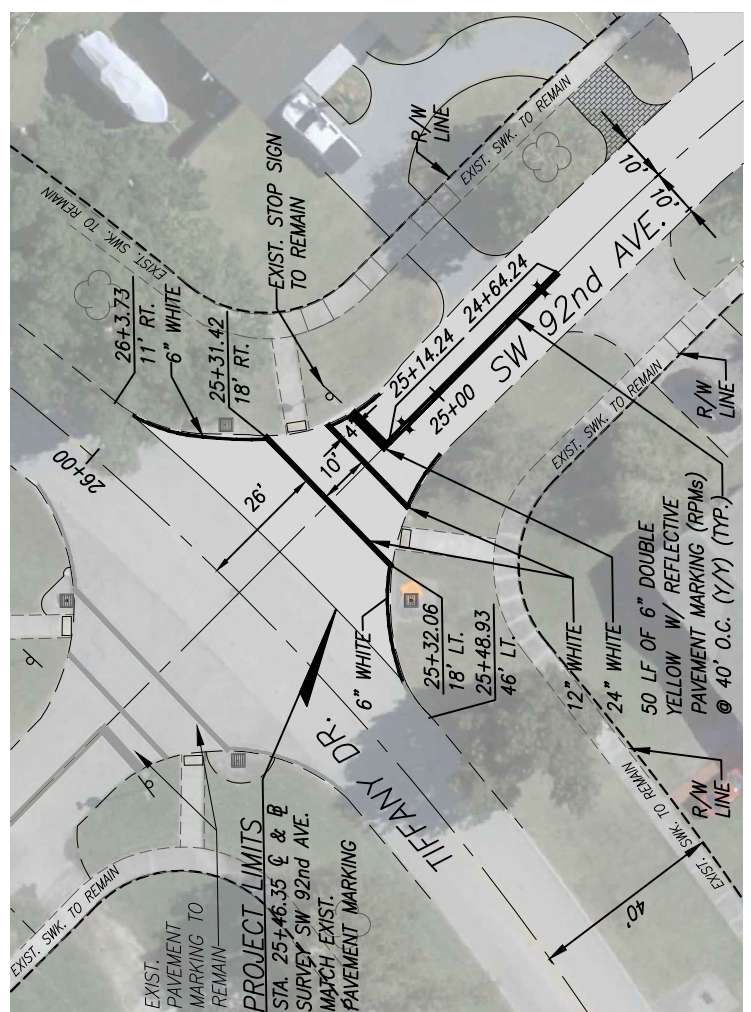
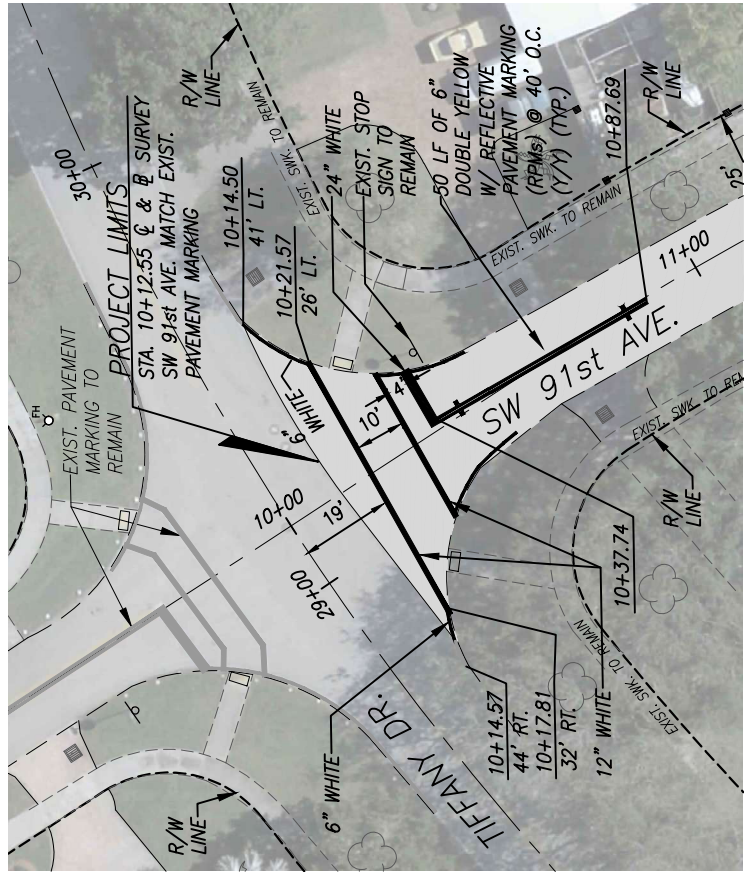
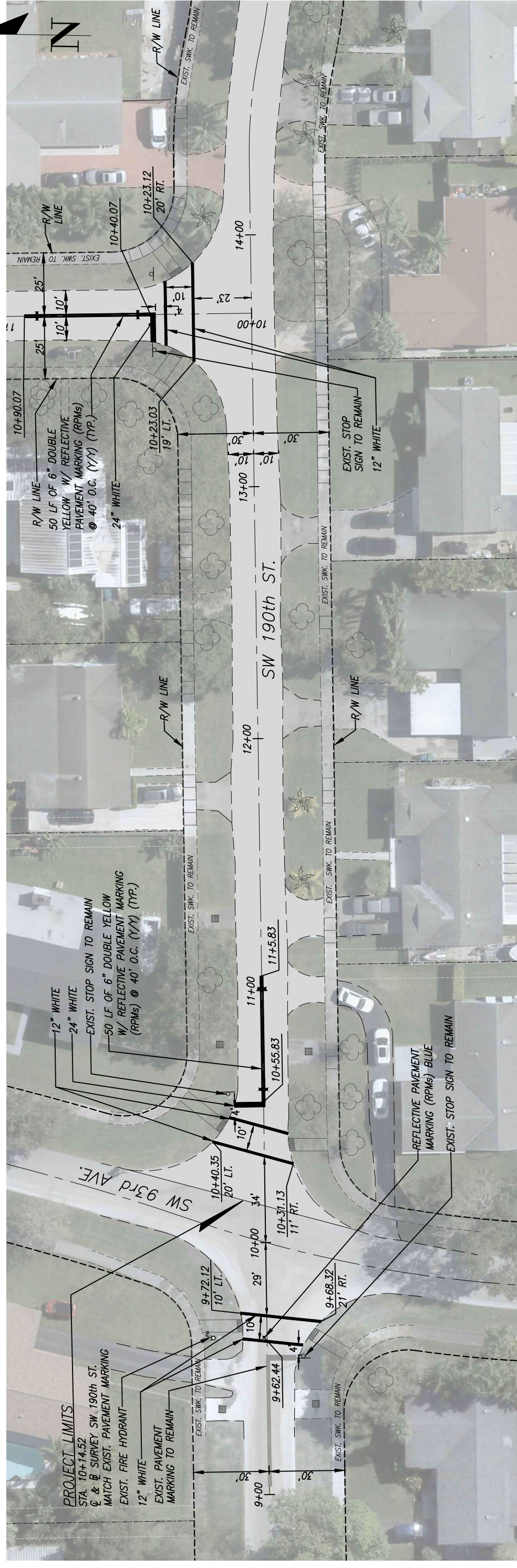
**PAVEMENT RESTORATION FOR TRENCHES CUT IN PUBLIC R/W (R-21.1 M-DPW STANDARD DETAILS)**











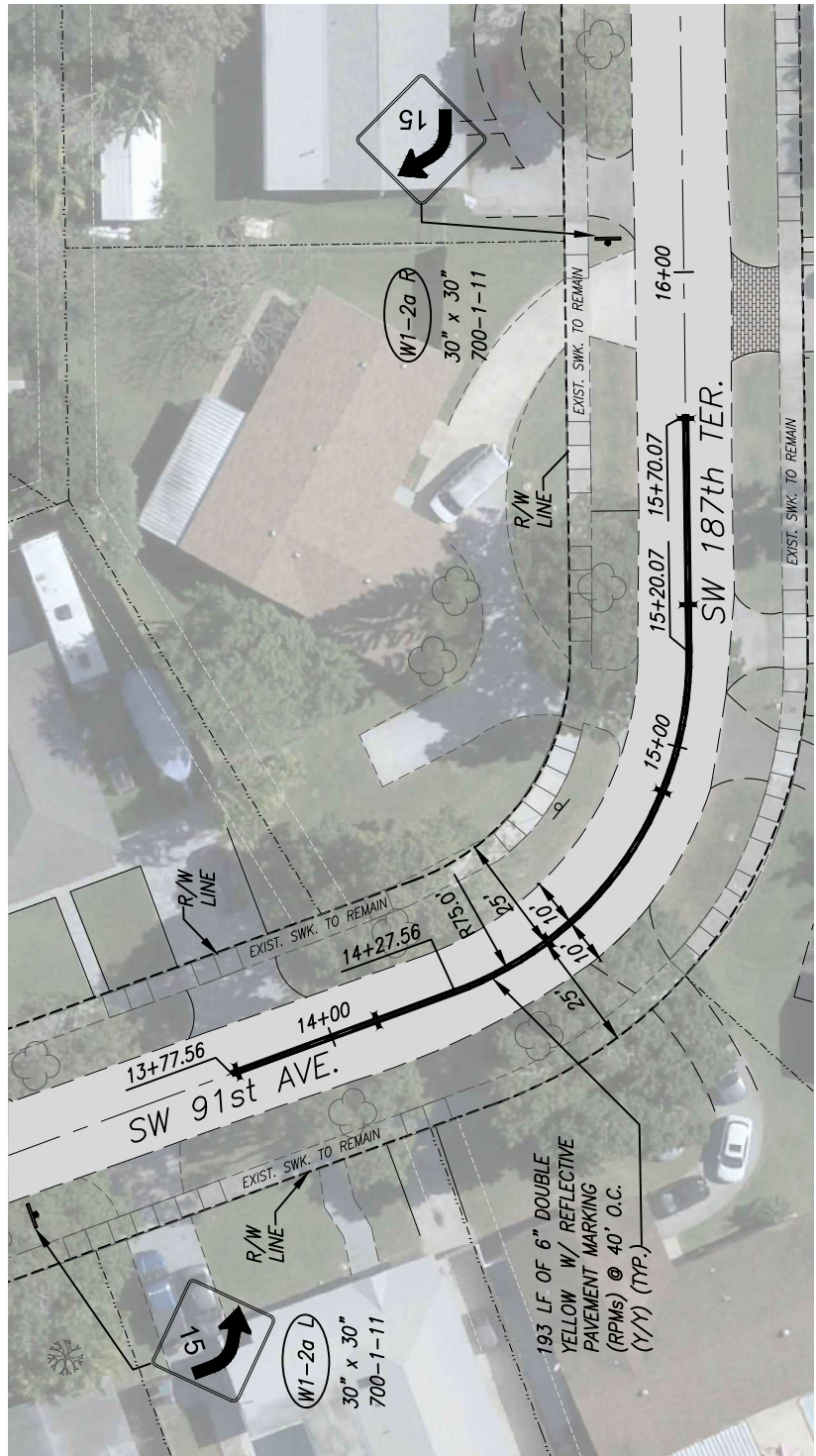
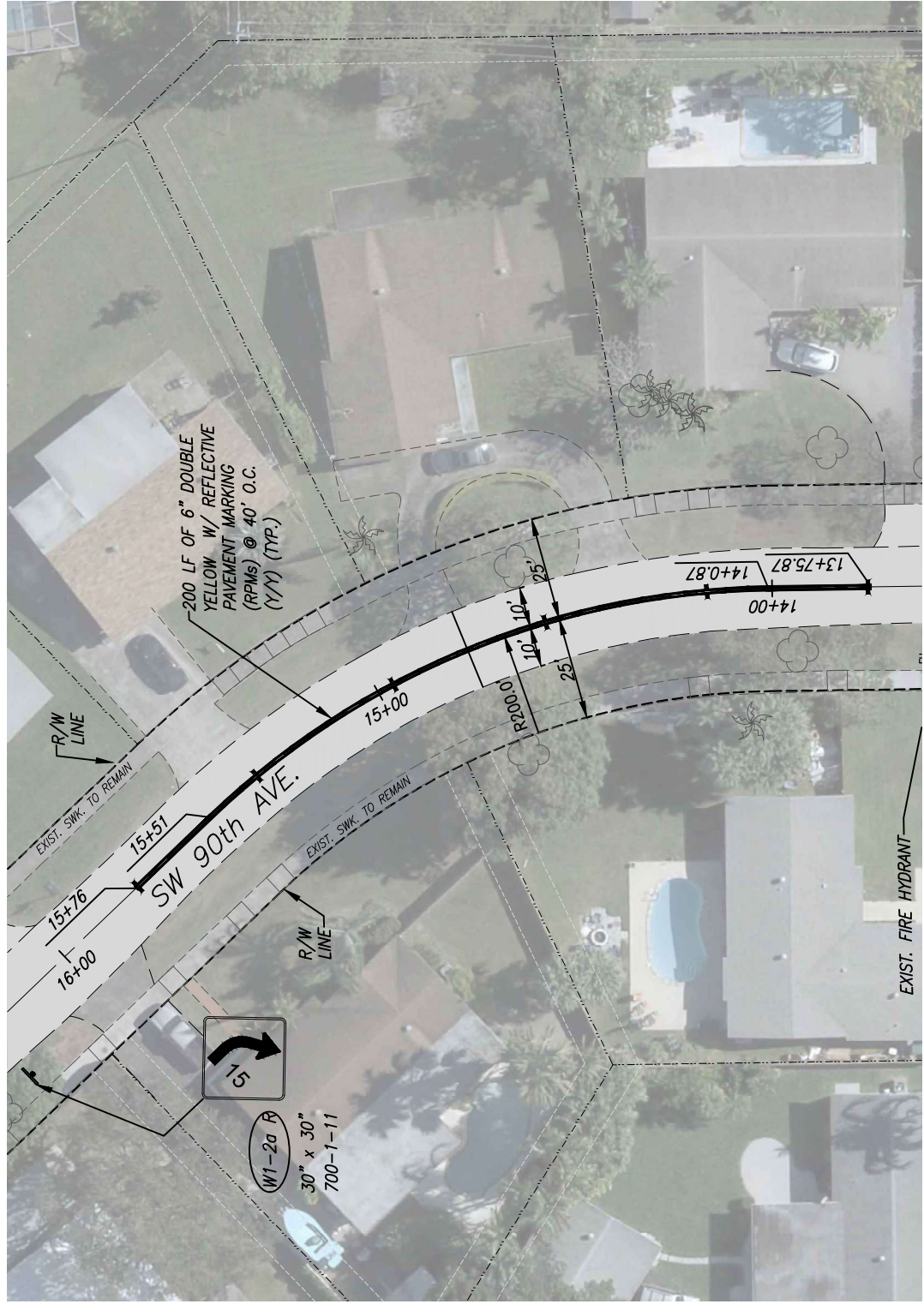
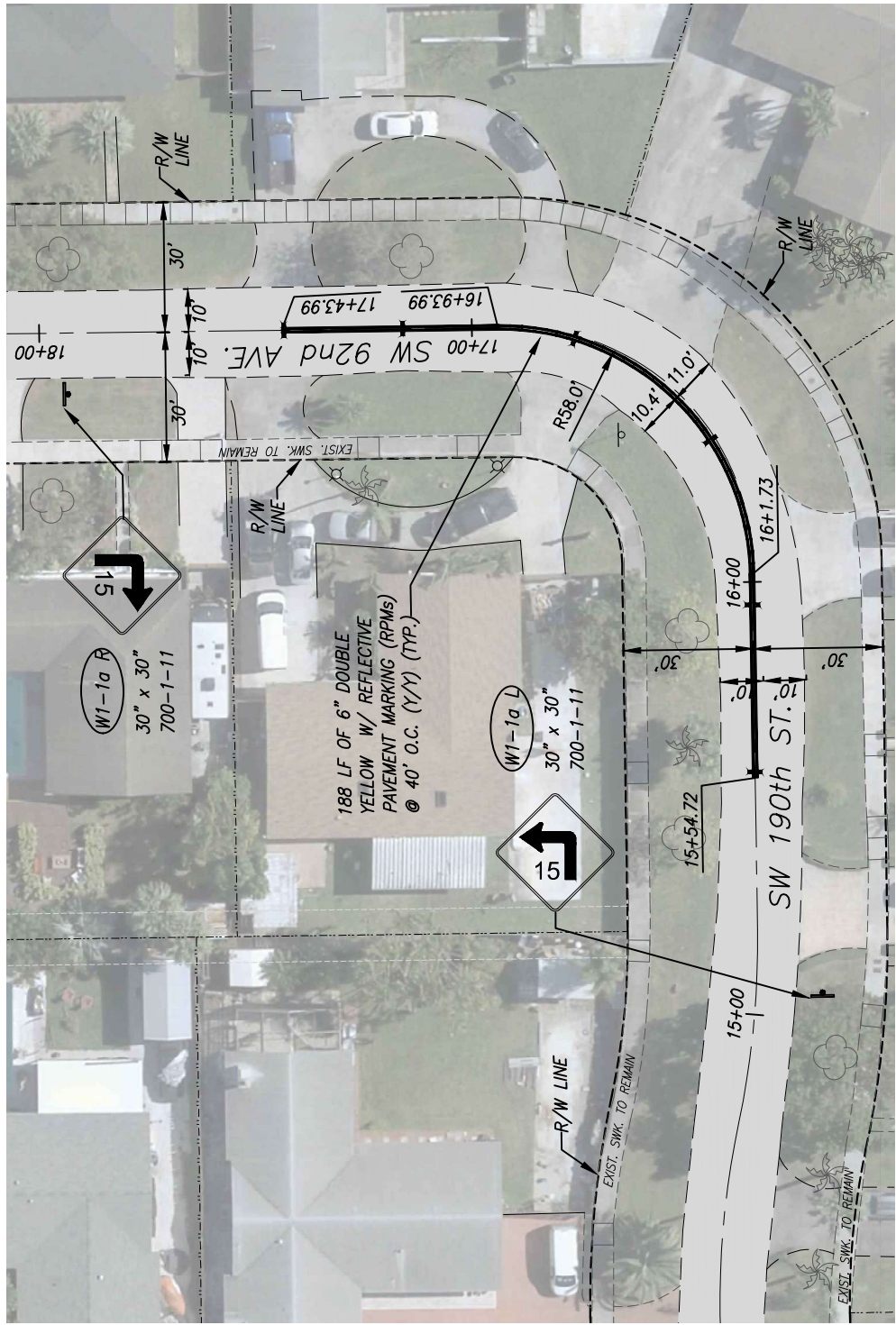
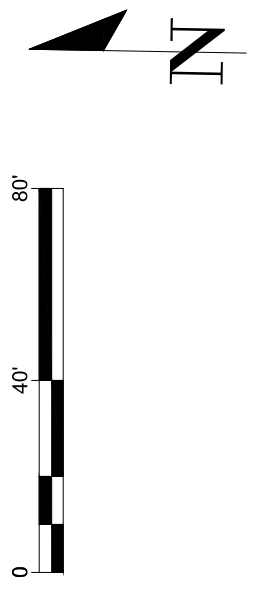
REV.	DATE	BY:	DESCRIPTION
	12/6/2023	J.C.F.	
DESIGNED BY:	C.B.	SEAL:	
DRAWN BY:	C.B.		
CHECKED BY:	J.C.F.		
DATE:	12/6/2023		
5001 Southwest 74th Court, Suite 201 Miami, Florida 33155-4453 TEL: 305-662-8887 FAX: 305-662-8858 WWW.SRS-CON.COM			
CUTLER BAY TOWN HALL 10720 CARIBBEAN BOULEVARD CUTLER BAY, FL 33189 PHONE: (305) 234-4262 FAX: (305) 234-4251			
<b>CUTLER BAY - ROADWAY &amp; DRAINAGE IMPROVEMENTS AREA # 2</b>			
<b>PAVEMENT MARKING AND SIGNAGE PLANS</b>			
SCALE:	AS SHOWN	PROJECT NO.:	2151
DWG. NO.:		SHEET:	C-39

ITB #24-02  
 S:\Projects\2021\2151 - Cutler Bay Drainage Sub-Basins Roadway Improvements\Area 2\Design\PAE\_39-42\_Plan (Area 2).dwg - Plot Date: 8/2/2019









DESIGNED BY:	C.B.	DRAWN BY:	C.B.	CHECKED BY:	J.C.F.	DATE:	12/6/2023
SEAL:							
REV.	DATE	BY:	DESCRIPTION				

**SRS**  
ENGINEERING, INC.  
CONSULTING ENGINEERS

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EB-00007317

**Cutler Bay**  
FLORIDA  
INCORPORATED PART

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TOWN HALL  
10720 CARIBBEAN  
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CUTLER BAY, FL 33189  
PHONE: (305) 234-4262  
FAX: (305) 234-4251

**CUTLER BAY - ROADWAY & DRAINAGE IMPROVEMENTS AREA # 2**

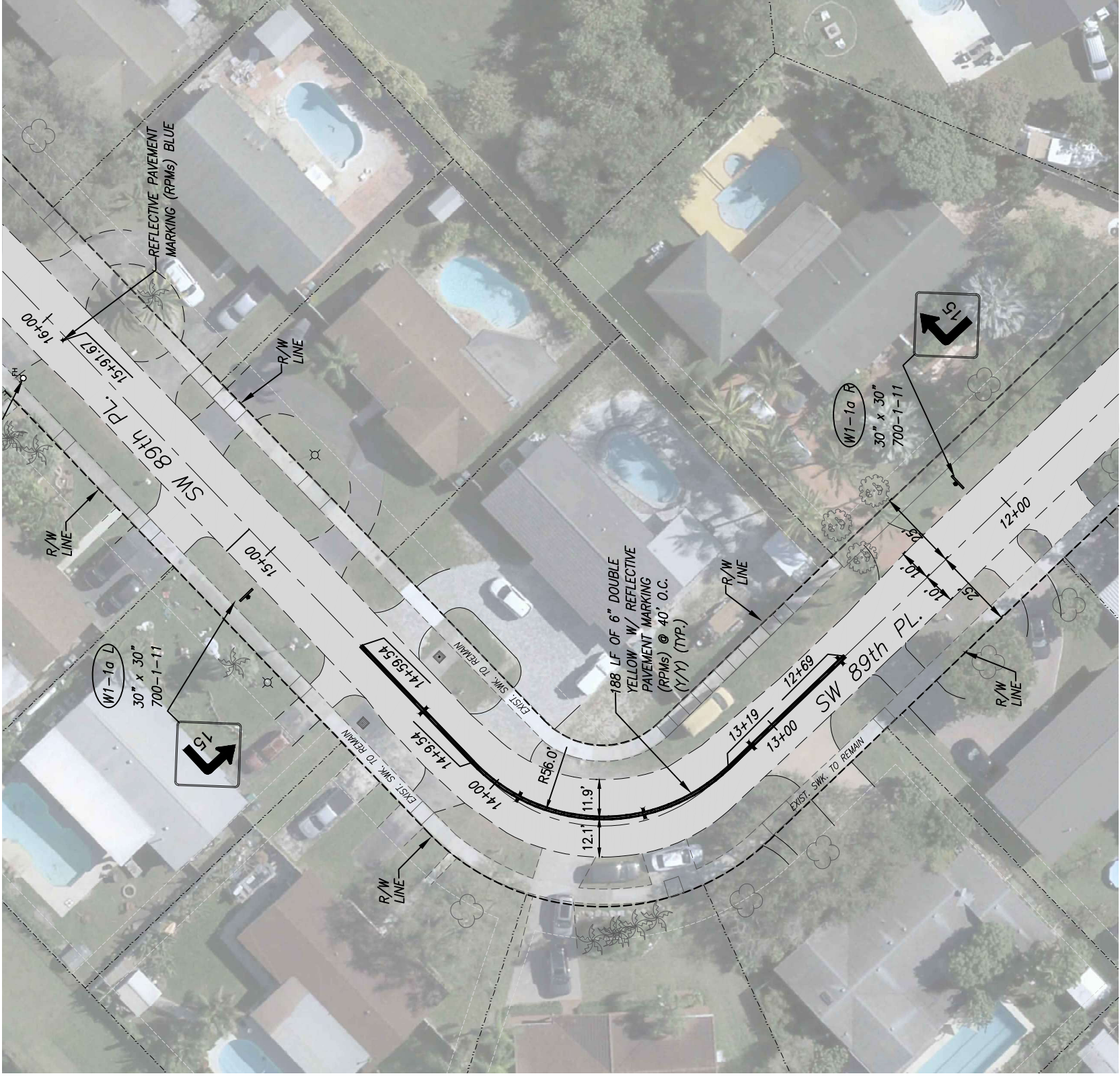
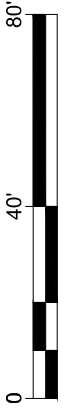
PAVEMENT MARKING AND SIGNAGE PLANS

SCALE:  
AS SHOWN

PROJECT NO.:  
2151

DWG. NO.:  
SHEET:  
C-41



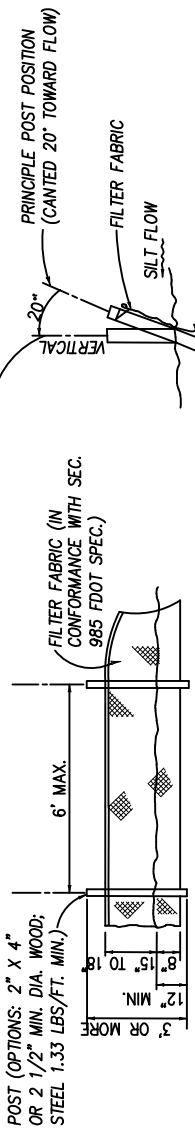


DESIGNED BY:	C.B.	SEAL:		 <p>5001 Southeast 74<sup>th</sup> Court, Suite 201 Miami, Florida 33155-4453 TEL: 305-662-8887 FAX: 305-662-8858 WWW.SRS-CON.COM</p>			
DRAWN BY:	C.B.						
CHECKED BY:	J.C.F.						
DATE:	12/6/2023						
REV.	DATE	BY:	DESCRIPTION				
							
				CUTLER BAY TOWN HALL 10720 CARIBBEAN BOULEVARD CUTLER BAY, FL 33189 PHONE: (305) 234-4262 FAX: (305) 234-4251			
				<b>CUTLER BAY - ROADWAY &amp; DRAINAGE IMPROVEMENTS AREA # 2</b>			
				<b>PAVEMENT MARKING AND SIGNAGE PLANS</b>			
				SCALE: AS SHOWN PROJECT NO.: 2151 DWG. NO.: SHEET: C-42			



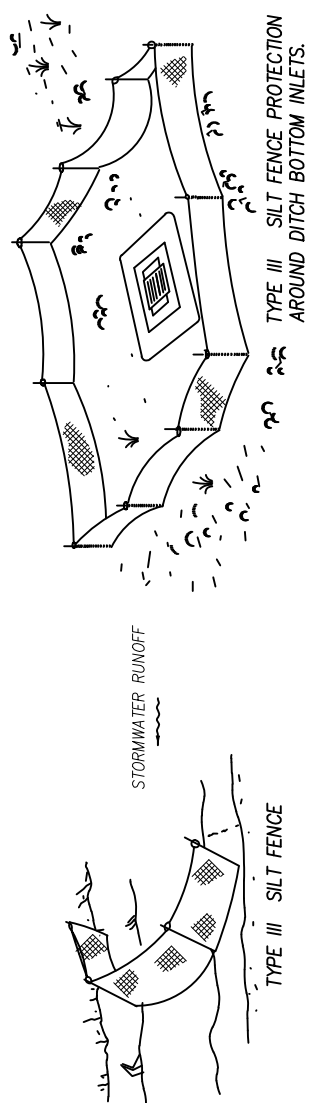
NOTES FOR SYNTHETIC BALES OR BALE TYPE BARRIERS

1. TYPE I AND II SYNTHETIC BARRIER SHOULD BE SPACED IN ACCORDANCE WITH CHART 1, SHEET 1 PER INDEX 102.
2. BALES SHALL BE ANCHORED WITH 2-1" X 2" (OR 1" DIA.) X 4' WOOD STAKES. STAKES OF OTHER MATERIAL OR SHAPE PROVIDING EQUIVALENT STRENGTH MAY BE USED IF APPROVED BY THE ENGINEER. STAKES OTHER THAN WOOD SHALL BE REMOVED UPON COMPLETION OF THE PROJECT.
3. RAILS AND POSTS SHALL BE 2" X 4" WOOD. OTHER MATERIALS PROVIDING EQUIVALENT STRENGTH MAY BE USED IF APPROVED BY THE ENGINEER.
4. ADJACENT BALES SHALL BE BUTTED FIRMLY TOGETHER.
5. WHERE USED IN CONJUNCTION WITH SILT FENCE, BALES SHALL BE PLACED ON THE UPSTREAM SIDE OF THE FENCE.



SILT FENCE DETAIL

N.T.S.

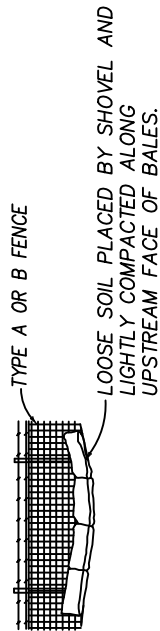


NOTES:

1. SPACING FOR TYPE III FENCE TO BE IN ACCORDANCE WITH CHART I, SHEET 1 OF 3 AND DITCH INSTALLATIONS AT DRAINAGE STRUCTURES SHEET 2 OF 3 PER FDOT STANDARD INDEX 102.
2. DO NOT DEPLOY IN A MANNER THAT SILT FENCES WILL ACT AS A DAM ACROSS PERMANENT FLOWING WATERCOURSES. SILT FENCES ARE TO BE USED AT UPLAND LOCATIONS AND TURBIDITY BARRIERS USED AT PERMANENT BODIES OF WATER.

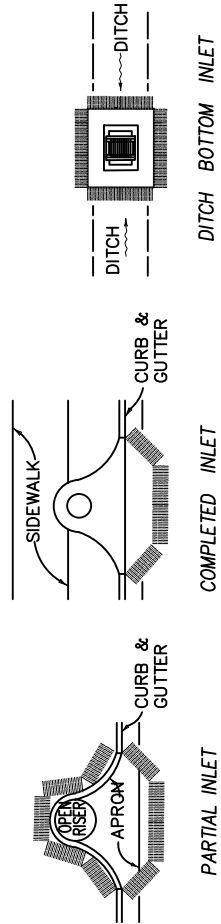
SILT FENCE APPLICATIONS

N.T.S.



BALES BACKED BY FENCE

N.T.S.



PROTECTION AROUND INLETS OR SIMILAR STRUCTURES

N.T.S.

STORM WATER POLLUTION PREVENTION PRACTICES:

1. TREE PROTECTION AND PRUNING SHALL BE ACCOMPLISHED AS DETAILED IN SPECIAL PROVISIONS, THE CONSTRUCTION PLANS, AND OR PER TREE ORDINANCE 12636.
2. THE STORM WATER POLLUTION PREVENTION PLAN, SWPPP, SUBMITTED TO PUBLIC WORKS, SHALL DESCRIBE IN DETAIL HOW THE CONSTRUCTION EFFORT WILL BE PHASED WITH REGARDS TO MINIMIZING EROSION PROBLEMS BY THE USE OF TEMPORARY AND PERMANENT EROSION CONTROL MEASURES, FOR THE VARIOUS SEQUENCES OF CONSTRUCTION OPERATIONS. ANY MODIFICATIONS MUST BE APPROVED BY THE TOWN OF CUTLER BAY - NPDES SECTION, DEPARTMENT OF PUBLIC WORKS.
3. ENVIRONMENTAL CONTROL FEATURES AS PROVIDED IN THE SWPPP, ARE TO BE INSTALLED AT ALL AREAS OF EXCAVATION OR FILL FOR DRAINAGE SYSTEM, OR STRUCTURE CONSTRUCTION PRIOR TO SUCH EXCAVATION OR FILL. INLET ENTRANCES ARE ALSO TO BE PROTECTED FROM SILTATION
4. ALL ENVIRONMENTAL CONTROL FEATURES ARE TO BE MAINTAINED THROUGHOUT THE LIFE OF THE PROJECT IN ACCORDANCE WITH N.P.D.E.S. REQUIREMENTS. THE CONTRACTOR MUST INSURE THAT ALL EROSION CONTROL FEATURES FUNCTION PROPERLY AT ALL TIMES.
5. ALL EROSION AND MATERIAL DEPOSITS MUST BE CONTAINED WITHIN THE PROJECT LIMITS.
6. ANY DAMAGED OR INEFFECTIVE ROCK BAGS ARE TO BE REPLACED WITH NEW ONES. THE LOCATION OF ROCK BAGS INSTALLATION IS AS MENTIONED IN THE SWPPP PLANS. THE PROJECT ENGINEER MAY SPECIFY OTHER AREAS AS NECESSARY.
7. DITCH BOTTOM INLETS SHALL BE PROTECTED FROM SEDIMENT INTAKE UNTIL PROJECT IS COMPLETE. ELEVATION OF GROUND OUTSIDE INLET TOP SHALL NOT BE HIGHER THAN INLET TOP. ROCK BAGS SHALL BE INSTALLED AROUND INLET TOP. COMPLETED INLETS IN PAVED AREAS SHALL ALSO BE PROTECTED WITH ROCK BAGS TO PREVENT SEDIMENT INTAKE.
8. CURB INLETS ALSO SHALL BE PROTECTED FROM SEDIMENT INTAKE UNTIL THE PROJECT IS COMPLETE. ALL EXPOSED SLOPED MATERIAL ADJACENT TO INLET, SHALL BE COVERED WITH EROSION CONTROL MATTING WITH OUTER LIMITS PROTECTED BY ROCK BAGS.
9. STOCKPILED MATERIAL SHALL NOT BE LEFT IN EROSION PRONE AREAS UNLESS PROTECTED BY COVER OR ROCK BAGS.
10. INSPECTION OF EROSION CONTROL MEASURES AND CONDITION OF ADJACENT PROPERTIES, SHALL BE PERFORMED DAILY BY THE CONTRACTOR'S REPRESENTATIVE AND THE PROJECT ENGINEER. DEFICIENCIES SHALL BE NOTED AND CORRECTED.
11. ANY OFFSITE SEDIMENT DISCHARGE TO A MUNICIPAL SEPARATE STORM WATER SYSTEM ARISING FROM THE CONTRACTOR'S ACTIVITIES IS NOT ALLOWED.
12. THE USE OF SANITARY SEWERS, FRENCH DRAINS, COVER DITCHES AND/OR ROCK DRAINS FOR THE DISPOSAL OF WASTEWATER IS EXPRESSLY PROHIBITED.

STORM WATER POLLUTION PREVENTION PLAN (SWPPP) CHECKLIST

- A. SEQUENCE OF SOIL DISTURBING ACTIVITIES AND IMPLEMENTATION OF CONTROLS:
1. CLEAR & GRUBBING
  2. INSTALL DRAINAGE STRUCTURES
  3. STABILIZATION
  4. BASE PREPARATION
  5. ASPHALT APPLICATION
  6. PLACEMENT OF ROCK BAGS AROUND INLETS
  7. APPLICATION OF ROCK BAGS AROUND MANHOLES
  8. APPLICATION OF FRICTION COURSE A.C.
  9. INSTALLATION OF STREET SIGNING
  10. PAVEMENT MARKING
  11. REMOVE ROCK BAGS
  12. CLEAN ALL CONSTRUCTION DEBRIS FROM CONSTRUCTION SITE
- B. GENERAL
1. APPROVED STATE, LOCAL PLANS OR STORM WATER PERMITS.
  2. ALL OF THE CONTROLS SHALL BE MAINTAINED AT ALL TIMES.
  3. ALL CONTROLS SHALL BE INSPECTED DAILY.
  4. APPLY FERTILIZERS AND PESTICIDES ACCORDING TO STANDARD SPECIFICATIONS, DESIGN AND SPECIAL PROVISIONS.
  5. REPORT NON-STORM WATER DISCHARGE (INCLUDING SPILL) 305) 416-1200.
  6. VISIT WWW.DEP.STATE.FL.US/WATER/STORMWATER/NPDES/

REV.	DATE	BY:	DESCRIPTION

DESIGNED BY: O.B.  
DRAWN BY: O.B.  
CHECKED BY: J.C.F.  
DATE: 12/6/2023

SEAL:

SRS ENGINEERING, INC.  
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CUTLER BAY - ROADWAY & DRAINAGE IMPROVEMENTS AREA # 2

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10720 CARIBBEAN BOULEVARD  
CUTLER BAY, FL 33189  
PHONE: (305) 234-4262  
FAX: (305) 234-4251

SCALE: AS SHOWN  
PROJECT NO.: 2151  
DWG. NO.:  
SHEET: C-43

STORMWATER POLLUTION PREVENTION PLAN NOTES & DETAILS



**COMMUNITY OFFICIALS**

- TIM MEERBOTT, MAYOR
- MICHAEL P. CALLAHAN, VICE MAYOR
- ROBERT "B.J." DUNCAN, COUNCIL MEMBER SEAT 1
- SUZY LORD, COUNCIL MEMBER SEAT 2
- RICHARD RAMIREZ, COUNCIL MEMBER SEAT 3

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C-1	COVER SHEET
C-2	PROJECT LAYOUT
C-3.0 TO C-3.1	GENERAL NOTES
C-4	LEGEND AND ABBREVIATIONS
C-5.0	PAY ITEMS NOTES
C-5.1	SUMMARY OF QUANTITIES
C-6 TO C-8	ROADWAY PLAN
C-9 TO C-12	DRAINAGE SECTIONS
C-13 TO C-17	MISCELLANEOUS DETAILS
C-18 TO C-19	PAVEMENT MARKING AND SIGNAGE PLANS
C-20	STORMWATER POLLUTION PREVENTION PLAN NOTES & DETAILS

**NOTES:**

- THE SCALE OF THESE PLANS MAY HAVE CHANGE DUE TO REPRODUCTION.
- ALL WORK SHALL BE PERFORMED WITHIN THE LIMITS OF EXISTING STATE / LOCAL RIGHT OF WAY, AND ALL IMPROVEMENTS SHALL BE CONSTRUCTED AND INSTALL WITHIN SAID LIMITS
- ALL ELEVATIONS REFER TO THE NATIONAL GEODETIC VERTICAL DATUM OF 1929 (NGVD-29)

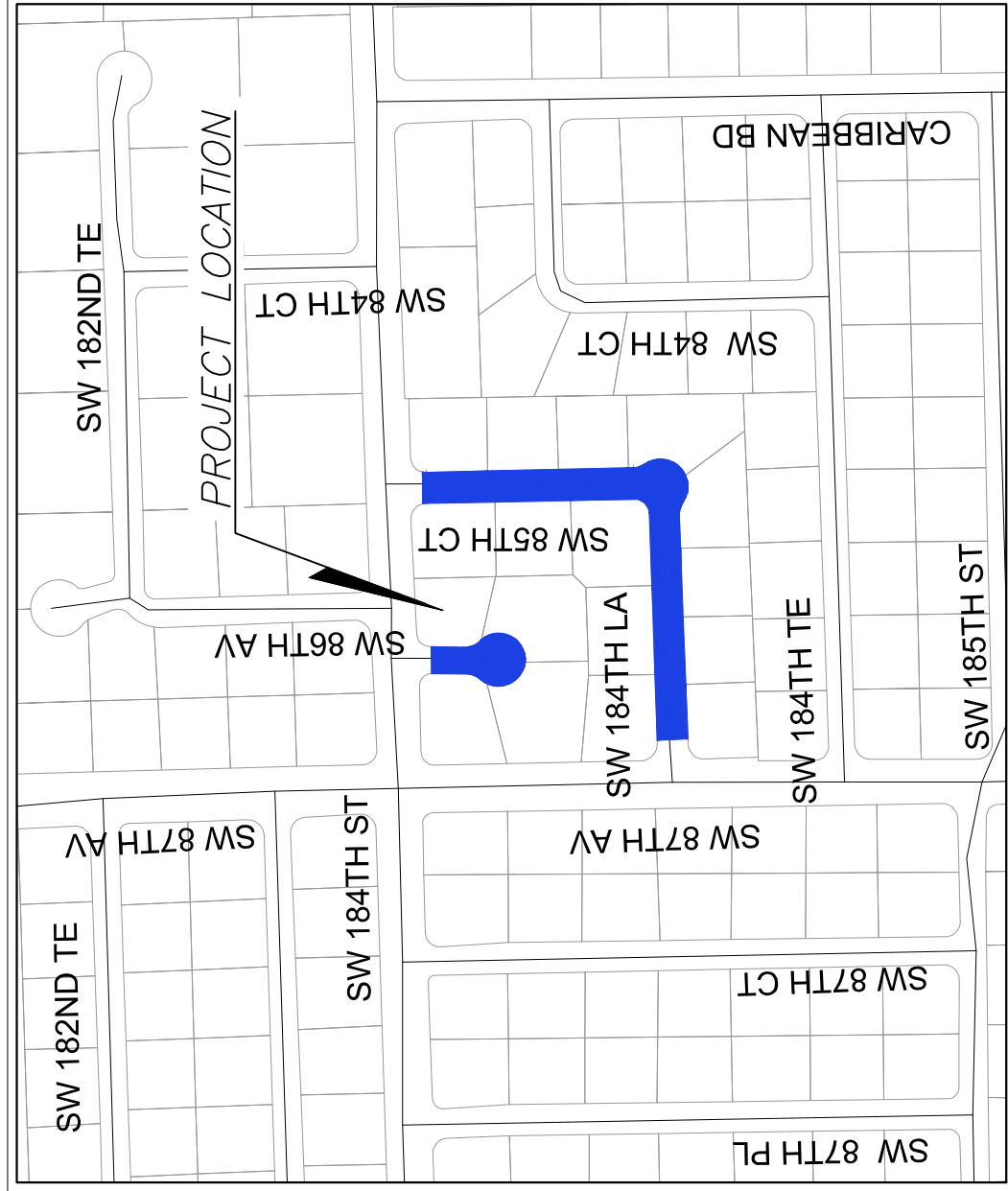
**ENGINEER'S CERTIFICATION:**

THIS PLAN WAS PREPARED UNDER MY DIRECTION AND TO THE BEST OF MY KNOWLEDGE AND BELIEF, COMPLIES WITH THE INTENT OF THE MANUAL OF UNIFORM STANDARDS FOR DESIGN, CONSTRUCTION AND MAINTENANCE OF STREETS AND HIGHWAYS AS ADOPTED BY THE STATE OF FLORIDA LEGISLATURE.

**GOVERNING STANDARDS:**

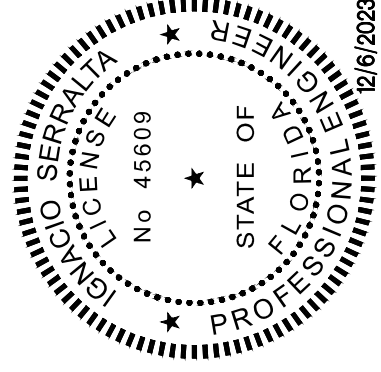
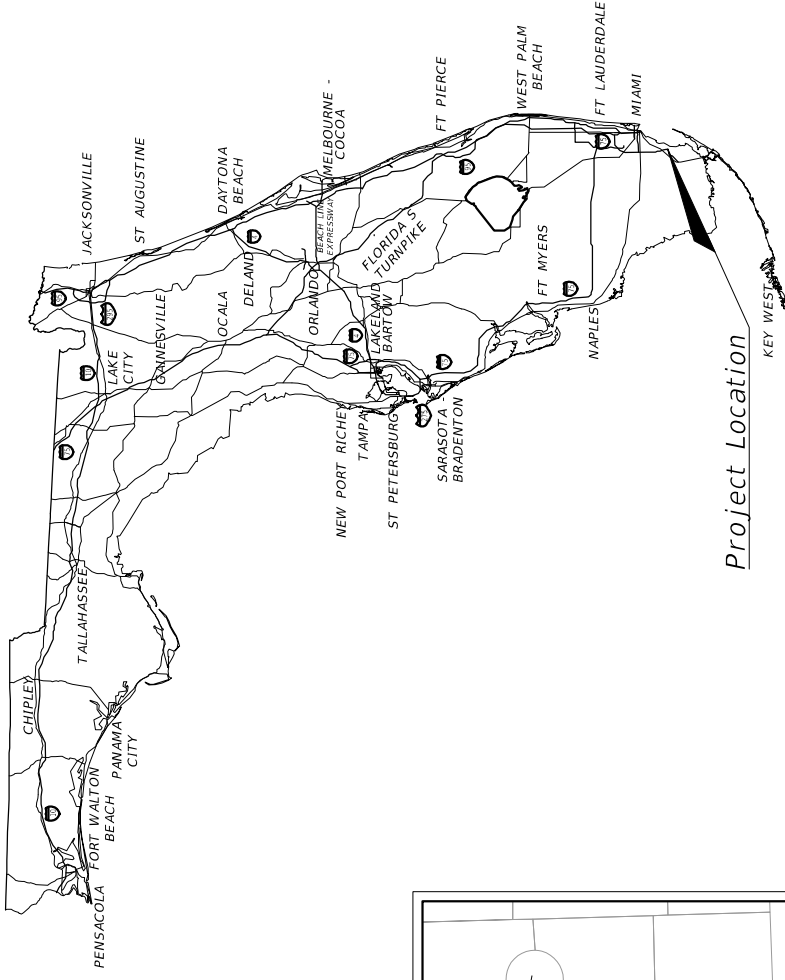
- MIAMI DADE COUNTY DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS ENGINEERING STANDARDS FOR DESIGN AND CONSTRUCTION.
- FLORIDA DEPARTMENT OF TRANSPORTATION, STANDARDS PLANS FY 2023-24, AND STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION DATED JULY 06-21-2023 (LAST UPDATED), MANUAL OF UNIFORM CONTROL DEVICE FOR STREETS AND HIGHWAYS, 2009 MUTCD WITH REVISIONS 1, 2, AND 3, JULY 2022, AS AMENDED BY CONTRACT DOCUMENTS.

# TOWN OF CUTLER BAY AREA # 3 CUTLER BAY - ROADWAY AND DRAINAGE IMPROVEMENTS



SECTION 3 - TOWNSHIP 56 SOUTH - RANGE 40 EAST

**LOCATION MAP**  
SCALE : N.T.S.



THIS ITEM HAS BEEN DIGITALLY SIGNED AND SEALED BY: IGNACIO SERRALTA, P.E. ON THE DATE ADJACENT TO THE SEAL. PRINTED COPIES OF THIS DOCUMENT ARE NOT CONSIDERED SIGNED AND SEALED AND THE SIGNATURE MUST BE VERIFIED ON ANY ELECTRONIC COPIES.

12/6/2023

**REVISIONS - SUBMITTALS**

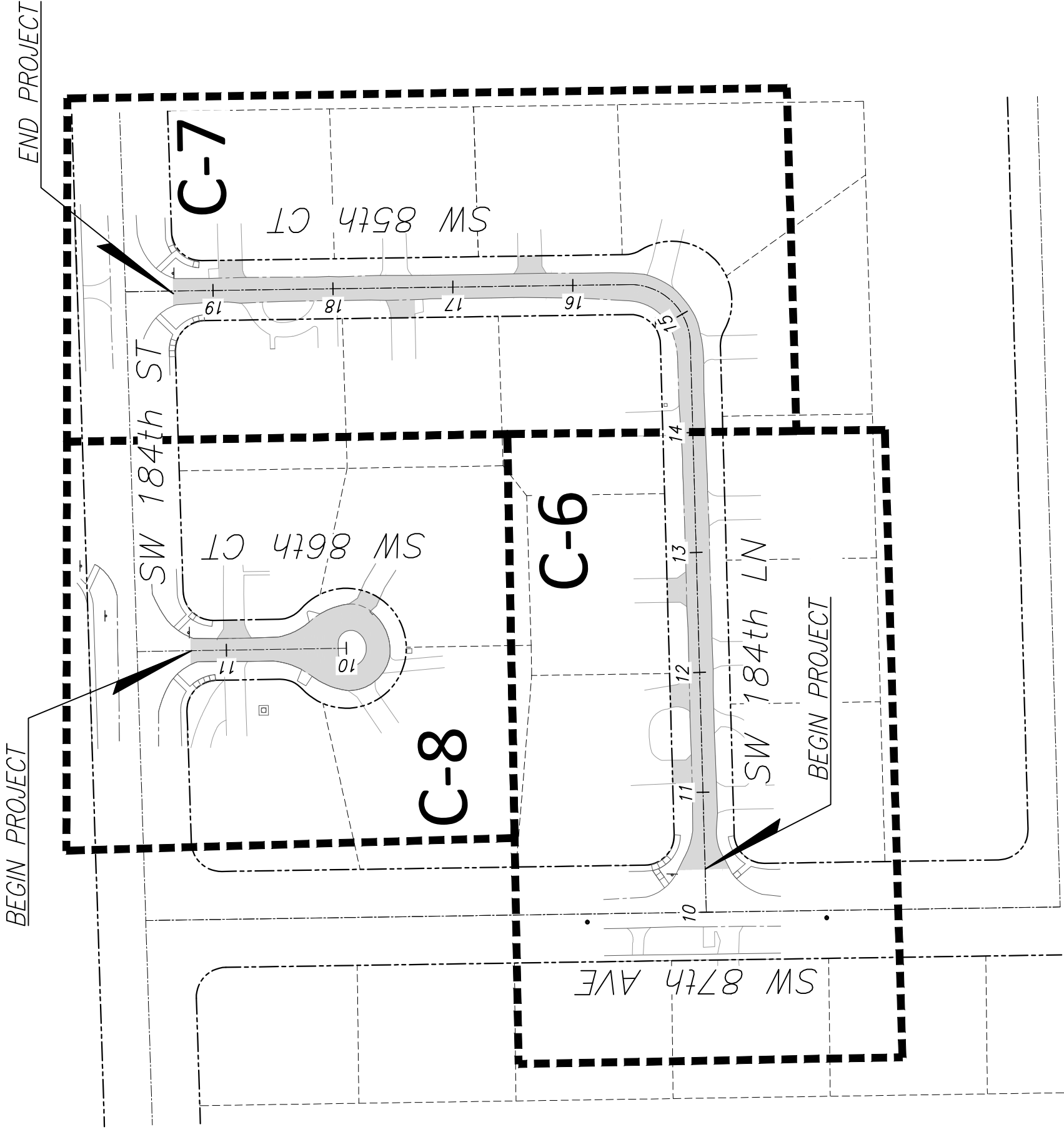
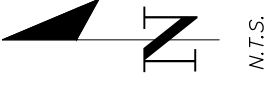
REV.	DATE	BY	DESCRIPTION

COVER SHEET

DATE: 12/6/2023 SHEET: C-1

**100% SUBMITTAL**

PREPARED BY:



BEGIN PROJECT

END PROJECT

C-7

C-6

C-8

SW 184th ST

SW 86th CT

SW 85th CT

SW 184th LN

SW 87th AVE

BEGIN PROJECT

SCALE: AS SHOWN	PROJECT NO.: 2151	PROJECT LAYOUT
DWG. NO.:	SHEET: C-2	
CUTLER BAY - ROADWAY & DRAINAGE IMPROVEMENTS AREA # 3		CUTLER BAY TOWN HALL 10720 CARIBBEAN BOULEVARD CUTLER BAY, FL 33189 PHONE: (305) 234-4262 FAX: (305) 234-4251
DESIGNED BY: C.B.	DRAWN BY: C.B.	SEAL:
CHECKED BY: J.C.F.	DATE: 12/6/2023	<p>5001 Southwest 7th Court, Suite 201 Miami, Florida 33152-4453 TEL: 305-662-8887 FAX: 305-662-8858 WWW.SRS-CON.COM</p>
REV.	DATE	BY:
		DESCRIPTION







UTILITIES

- 1 TWO FULL BUSINESS DAYS (48 HOURS) PRIOR TO DIGGING, THE CONTRACTOR SHALL CONTACT 811, WWW.SUNSHINE811.COM TO REQUEST UTILITY LOCATIONS BEFORE BEGINNING ANY CONSTRUCTION ACTIVITIES.
- 2 EXISTING UTILITIES SHALL BE MAINTAINED IN SERVICE DURING CONSTRUCTION UNLESS OTHERWISE APPROVED BY THE UTILITY OWNER. ALL EXISTING UTILITIES ARE TO REMAIN UNLESS OTHERWISE NOTED.
- 3 IT SHALL BE THE CONTRACTOR'S SOLE RESPONSIBILITY TO (VERTICALLY AND HORIZONTALLY) PROTECT ALL EXISTING UTILITIES ON THIS PROJECT. ANY DAMAGE TO UTILITIES SHALL BE IMMEDIATELY REPORTED TO THE UTILITY OWNER. THE OWNER RESERVES THE RIGHT TO REMEDY SUCH DAMAGE BY ORDERING OUTSIDE PARTIES TO MAKE SUCH REPAIRS AT THE EXPENSE TO THE CONTRACTOR.
- 4 THE CONTRACTOR IS ADVISED THAT PROPERTIES ADJACENT TO THE PROJECT HAVE ELECTRIC, TELEPHONE, GAS, WATER AND/OR SEWER SERVICE LATERALS WHICH MAY NOT BE SHOWN IN PLANS. THE CONTRACTOR MUST REQUEST THE LOCATION OF THESE LATERAL SERVICES FROM THE UTILITY COMPANIES. THE ADDITIONAL COST OF EXCAVATING, INSTALLING, BACKFILLING AND COMPACTING AROUND THESE LATERAL SERVICES MUST BE INCLUDED IN THE BID RELATED ITEM FOR THE WORK BEING DONE.
- 5 UTILITY OWNERS:  
 - ATLANTIC BROADBAND 786-251-5989 - FLORIDA POWER & LIGHT 386-586-6403  
 - COMCAST CABLE 954-447-8405 - LEVEL 3 COMMUNICATIONS 786-256-1554  
 - FLORIDA CITY GAS 786-575-8547 - M-D WATER & SEWER 786-288-5320  
 - PUBLIC WORKS & TRAFFIC 786-345-0986 - AT&T 561-997-0240

ENVIRONMENTAL NOTES

- 1 DUE TO THE LIMITED SCOPE OF WORK, NO IMPACTS TO EXISTING HISTORICAL AND CULTURAL RESOURCES ARE EXPECTED AS A RESULT OF THE PROPOSED ACTION.
- 2 NO STAGING OR OTHER ACTIVITIES FOR THIS PROJECT SHOULD OCCUR WITHIN THE DRIPLINE OF EXISTING TREES.
- 3 PREVENT DAMAGING TREES AND PLANTERS WITHIN OR IMMEDIATELY ADJACENT TO THE PROJECT'S RIGHT-OF-WAY.
- 4 AN ARBORIST CERTIFIED BY THE INTERNATIONAL SOCIETY OF ARBORICULTURE SHALL BE PRESENT ON SITE TO MONITOR CONSTRUCTION ACTIVITIES NEAR EXISTING TREES AND DIRECT ALL ROOT PRUNING AND/OR CANOPY TRIMMING ACTIVITIES.
- 5 TREE PROTECTION SHOULD BE INSTALLED AROUND TREES TO REMAIN LOCATED ADJACENT TO CONSTRUCTION ACTIVITIES PER FDOT STANDARDS PLANS FY 2023-24, INDEX 110-100
- 6 THE CONTRACTOR SHALL NOT REMOVE, RELOCATE OR PRUNE ANY TREES WITHOUT PRIOR APPROVAL FROM THE TOWN. THE CONTRACTOR SHALL OBTAIN ALL REQUIRED PERMITS FROM THE TOWN OF CUTLER BAY PUBLIC WORKS DEPARTMENT PRIOR TO ANY TREE REMOVAL/RELOCATION.
- 7 CONTRACTOR SHALL REMOVE/CONTROL DUST USING WATER OR OTHER EQUIPMENT CAPABLE OF CONTROLLING DUST.
- 8 THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING A DERM CLASS V DEWATERING PERMIT IF DEWATERING IS PROPOSED.

TRAFFIC CONTROL PLANS

- 1 TRAFFIC CONTROLS SHALL BE IN ACCORDANCE WITH THE PROJECT PLANS, THE CURRENT EDITION OF THE FDOT, STANDARDS PLANS FY 2023-24 (102 SERIES), THE STANDARD SPECIFICATION FOR ROAD AND BRIDGE CONSTRUCTION, AND 2009 (MUTCD) MANUAL OF UNIFORM CONTROL DEVICE FOR STREETS AND HIGHWAYS, EDITION WITH REVISION NUMBERS 1, 2, AND 3, DATED JULY 2022
- 2 NOTIFICATION OF LANE CLOSURES OR TEMPORARY DETOURS SHALL BE ACCOMPLISHED 14 WORKING DAYS PRIOR TO CLOSURE. DETOUR OR MOT PHASE CHANGE SHALL BE SUBMITTED WITH THE REQUIRED LANE CLOSURE FORM, SKETCHES, CALCULATIONS, AND OTHER DATA TO PUBLIC WORKS DEPT.
- 3 AT THE DISCRETION OF THE ENGINEER, IF A LANE CLOSURE CAUSES EXTENDED CONGESTION OR DELAY, THE CONTRACTOR SHALL BE DIRECTED TO REOPEN THE CLOSED LANE(S) UNTIL SUCH TIME THAT THE TRAFFIC FLOW HAS RETURNED TO AN ACCEPTABLE LEVEL.
- 4 THE TRAFFIC AND TRAVEL WAYS SHALL NOT BE ALTERED BY THE CONTRACTOR TO CREATE A WORK ZONE UNTIL ALL LABOR AND MATERIAL ARE AVAILABLE FOR THE CONSTRUCTION IN THAT AREA.
- 5 LANE CLOSURE SHALL OCCUR ONLY DURING NON-PEAK HOURS ON NON-EVENT DATES/NIGHTS/WEEKENDS. NON PEAK HOURS 9:00 AM TO 3:30 PM WEEKDAYS AND SATURDAYS. EXCEPTIONS MAY BE GRANTED UPON WRITTEN REQUEST TO THE CITY.
- 6 TRAFFIC CONTROL PLANS FOR ALL PHASES ARE DESIGNED FOR NON-PEAK HOURS ONLY. THE CONTRACTOR SHALL KEEP ALL EXISTING LANES OPEN DURING PEAK HOURS IN THESE PHASES.

DESIGNED BY:	G.B.
DRAWN BY:	G.B.
CHECKED BY:	J.C.F.
DATE:	12/6/2023



5001 Southwinds 7th Court, Suite 201  
 Miami, Florida 33152-4453  
 TEL: 305-662-8887 FAX: 305-662-8858  
 WWW.SRS-ENG.COM



CUTLER BAY TOWN HALL  
 10720 CARIBBEAN BOULEVARD  
 CUTLER BAY, FL 33189  
 PHONE: (305) 234-4262  
 FAX: (305) 234-4251

- 7 AS DETERMINED BY THE ENGINEER, THE CONTRACTOR SHALL COVER WORK ZONE SIGNS WHEN CONDITIONS NO LONGER WARRANT THEIR USE. COST OF COVERING AND UNCOVERING THE SIGNS SHALL BE INCLUDED IN MAINTENANCE OF TRAFFIC PAY ITEM.
- 8 CONTRACTOR SHALL BE RESPONSIBLE FOR THE IMMEDIATE REMOVAL OF STORM WATER FROM ROADWAYS UTILIZED FOR MAINTAINING TRAFFIC IN A MANNER APPROVED BY THE ENGINEER. COST FOR REMOVING THE WATER SHALL BE INCLUDED IN MAINTENANCE OF TRAFFIC PAY ITEM.
- 9 TEMPORARY LANE TRANSITIONS, SHIFTS, AND CROSSEVERS SHALL HAVE SOLID LANE AND EDGE LINES FOR THE LENGTH OF THE TRANSITION, SHIFT OR CROSSOVER. IN ADDITION, SOLID LANE AND EDGE LINES SHALL EXTEND 100 FT ON TANGENT BEYOND EACH END OF THE TRANSITION, SHIFT, OR CROSSOVER. EXCEPTION SHALL BE THROUGH INTERSECTIONS WHERE 2 FT TO 4 FT SKIP LINES WILL BE PLACED.
- 10 ALL TEMPORARY STRIPES AND MARKINGS SHALL BE PAINT ONLY, UNLESS OTHERWISE SPECIFIED ON THE PLANS OR APPROVED BY THE ENGINEER. COST OF TEMPORARY STRIPING SHALL BE INCLUDED IN MOT PAY ITEM.
- 11 EACH EXISTING STREET NAME AND STOP SIGN AFFECTED BY CONSTRUCTION SHALL BE RELOCATED AND MAINTAINED IN AN APPROPRIATE LOCATION FOR THE DURATION OF THE PROJECT. WHEN NO LONGER AFFECTED BY CONSTRUCTION, THESE SIGNS SHALL BE RESTORED TO THEIR ORIGINAL POSITION. COST OF TEMPORARILY RELOCATING AND RESTORING THE SIGNS SHALL BE INCLUDED IN MAINTENANCE OF TRAFFIC PAY ITEM.
- 12 FOR DROP OFFS, THE CONTRACTOR'S SHALL FOLLOW TO THE FDOT, STANDARDS PLANS FY 2023-24 INDEX NO. 102-600 SHEET 8 OF 11. THE CONTRACTOR SHALL USE SHOULDER TREATMENT DETAIL WHEN NO BARRIERS ARE REQUIRED IN THE PLANS
- 13 CONTRACTOR SHALL PREPARE AND SUBMIT AN ACCEPTABLE MOT PLAN FOR THE PROJECT. THE MOT PLAN SHALL BE SUBMITTED TO THE TOWN OF CUTLER BAY'S PUBLIC WORKS DEPARTMENT FOR REVIEW AND APPROVAL.
- 14 LANE CLOSURES SHALL NOT BE PERMITTED DURING SCHOOL SPEED ZONE HOURS WHERE SUCH CLOSURES WILL AFFECT TRAFFIC FLOW IN THE VICINITY OF THE SCHOOL SPEED ZONES.

WORK ZONE LIMITS

- 1 THE LENGTH OF AN OPEN TRENCH SHALL NOT EXCEED 500 FT. PROPERTY ACCESS SHALL BE MAINTAINED IN ACCORDANCE TO ARTICLE 102-5.5 OF THE FDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION LATEST EDITION.
- 2 NO MORE THAN TWO BLOCKS OF STREET SHALL BE UNDER CONSTRUCTION AT A TIME AND ALL WORK AND RESTORATION SHALL BE COMPLETED ON ONE OF SUCH BLOCKS BEFORE WORK MAY BEGIN IN A NEW BLOCK. FINAL RESURFACING SHALL BE PLACED WITHIN 48 HOURS OF THE MILLING OPERATION.

INTERSECTIONS

- 1 ADJACENT INTERSECTIONS SHALL NOT BE CONSTRUCTED SIMULTANEOUSLY UNLESS DIRECTED BY THE ENGINEER
- 2 INTERSECTIONS SHALL BE RECONSTRUCTED WORKING ON A CONTINUOUS DAILY BASIS UNTIL COMPLETE AND UNTIL THE STRUCTURAL COURSE IS PLACED.
- 3 M.O.T. TRANSITIONS AND TEMPORARY INTERSECTION CROSSEVERS WHERE CONSTRUCTION HAS CAUSED GRADE DIFFERENCES BETWEEN THE EXISTING AND NEW ROADWAYS SHALL BE CONSTRUCTED USING A 1:20 TYPE SP ASPHALT CONCRETE SLOPE TO ACCOMMODATE VEHICULAR TRAFFIC FROM ANY DIRECTION. ALL MATERIAL AND WORK, INCLUDING ITS REMOVAL, SHALL BE INCLUDED IN MAINTENANCE OF TRAFFIC PAY ITEM.

PEDESTRIANS, BICYCLES, AND WHEELCHAIRS

- 1 AT THE END OF EACH WORK DAY OR WHENEVER THE WORK ZONE BECOMES INACTIVE, ANY DROP OFF GREATER THAN 6 IN. ADJACENT TO THE PEDESTRIAN, BICYCLE, AND WHEELCHAIR TRAVEL PATHS SHALL BE BACKFILLED FLUSH WITH THE SAID PATHS OR PROTECTED WITH TEMPORARY FENCE. CONCRETE BARRIER WALL OR APPROVED HANDRAIL. COST SHALL BE INCLUDED IN THE PAY ITEM 102-1, MAINTENANCE OF TRAFFIC.
- 2 CONSTRUCTION ACTIVITIES THAT INVOLVES SIDEWALKS ON BOTH SIDES OF THE STREET ARE NOT ALLOWED UNLESS APPROVED BY THE ENGINEER.

SIGNING AND PAVEMENT MARKINGS

- 1 ALL SIGNING AND PAVEMENT MARKINGS SHALL CONFORM WITH THE CURRENT EDITION OF THE FDOT, STANDARDS PLANS FY 2023-24, THE 2023 FDOT DESIGN MANUAL, AND 2009 (MUTCD) MANUAL OF UNIFORM CONTROL DEVICE FOR STREETS AND HIGHWAYS
- 2 ALL EXISTING SIGNS ARE TO REMAIN UNLESS OTHERWISE SPECIFIED. BEFORE STARTING THE PROJECT, THE CONTRACTOR WILL REVIEW EXISTING SIGNS SHOWN ON THE PLANS TO BE RELOCATED OR TO REMAIN. THE CONTRACTOR WILL NOTIFY IN WRITING TO THE PROJECT ENGINEER OF ANY MISSING SIGNS BEFORE CONSTRUCTION STARTS. SIGNS DAMAGED BY THE CONTRACTOR'S OPERATIONS WILL BE REPLACED AT NO COST TO THE DEPARTMENT. IF EXISTING SIGNS TO BE RELOCATED HAVE A DAMAGED POLE OR A POLE NOT MEETING HEIGHT SPECIFICATION REQUIREMENTS, THE COST OF A NEW POLE WILL BE INCLUDED IN THE RELOCATION BID ITEM.

- 3 ALL PAVEMENT MARKINGS, MESSAGES, AND ARROWS SHALL BE THERMOPLASTIC UNLESS OTHERWISE NOTED.
- 4 REFLECTIVE PAVEMENT MARKERS ARE TO BE PLACED AS INDICATED
- 5 MATCH EXISTING PAVEMENT MARKINGS AT THE BEGINNING AND AT THE END OF THE PROJECT AND AT ALL SIDE STREETS WITHOUT JOGS OR OFFSETS.
- 6 THE CONTRACTOR SHALL REMOVE EXISTING MARKINGS BY FDOT APPROVED METHOD WITHOUT DAMAGE TO THE FRICTION COURSE.
- 7 SIGN ASSEMBLY LOCATIONS SHOWN ON PLANS WHICH ARE IN CONFLICT WITH LIGHTING, UTILITIES, DRIVEWAYS, WHEELCHAIR RAMPS, ETC. MAY BE ADJUSTED SLIGHTLY AS DIRECTED BY THE ENGINEER. EXTREME LOCATION CHANGES MUST BE APPROVED BY MIAMI-DADE SIGNALS AND SIGNS DIVISION.
- 8 THE CONTRACTOR SHALL RELOCATE ALL EXISTING POST-MOUNTED STREET NAME AND STOP SIGNS TO A VISIBLE AREA UNDISTURBED BY THE CONSTRUCTION SO AS TO MINIMIZE DAMAGE TO THE SIGNS. NEW STREET NAME SIGNS WILL BE ATTACHED AT THE TOP OF THE NEW STOP SIGNS ON MINOR SIDE STREETS AT THE END OF CONSTRUCTION.
- 9 EXTRUDED ALUMINUM SIGN SUPPORT CLAMPS ARE NOT ACCEPTABLE. ALL RELOCATED SIGNS MUST COMPLY WITH THE FDOT, STANDARDS PLANS FY 2023-24, INDEX 700-010 AS IF THEY WERE NEW SIGNS. IF EXISTING CLAMPS, BRACKETS, POLES, ETC. NEED TO BE REPLACED THE COST SHALL BE INCLUDED IN THE RELOCATION PAY ITEM.
- 10 REFLECTIVE PAVEMENT MARKERS AS PER FDOT STANDARD INDEX NO 706-001
- 11 NEW STREET NAME SIGNS SHALL BE PER MIAMI DADE COUNTY STANDARDS AND MUTCD.

**CUTLER BAY - ROADWAY & DRAINAGE IMPROVEMENTS AREA # 3**

**GENERAL NOTES**

SCALE:	AS SHOWN
PROJECT NO.:	2151
DWG. NO.:	
SHEET:	C-3.1

**ABBREVIATIONS:**

BLDG.	=	BUILDING
C.B.	=	CATCH BASIN
℄	=	BASE LINE
⊕	=	CENTER LINE
C.O.	=	CLEANOUT
CONC.	=	CONCRETE
CONN.	=	CONNECTION
CONT.	=	CONTINUATION
CONST.	=	CONSTRUCT
DET.	=	DETAIL
D.I.P.	=	DUCTILE IRON PIPE
EXIST.	=	EXISTING
F.F.E.	=	FINISHED FLOOR ELEVATION
F.H. / FH	=	FIRE HYDRANT
F.M. / FM	=	FORCE MAIN
H.D.P.E.	=	HIGH DENSITY POLYETHYLENE
HORIZ.	=	HORIZONTAL
INV.	=	INVERT
L.F.	=	LINEAR FEET
M-DWASD	=	MIAMI-DADE WATER AND SEWER DEPT.
M-DPW	=	MIAMI DADE PUBLIC WORKS
M.E.G.	=	MATCH EXISTING GRADE
MIN.	=	MINIMUM
P.I.V.	=	POST INDICATOR VALVE
P.G.P.	=	PROPOSED GRADING POINT
P.G.L.	=	PROPOSED GRADING LINE
P/L, ℄	=	PROPERTY LINE
PROP.	=	PROPOSED
SAN.	=	SANITARY SEWER
R/W, ROW	=	RIGHT OF WAY
SEC.	=	SECTION
SERV.	=	SERVICE
S/L, ⚡	=	SECTION LINE
STA.	=	STATION
STD.	=	STANDARD
SWK.	=	SIDEWALK
T.O.P.	=	TOP OF PIPE
U.S.F.	=	US FOUNDRY
VERT.	=	VERTICAL
W.M. / WM	=	WATER MAIN
W.S.	=	WATER SERVICE
T.B.F.V.	=	TO BE FIELD VERIFIED

**UTILITIES LEGEND:**

WM	---	WM	---	EXISTING WATER MAIN (UNDERGROUND)
SAN	---	SAN	---	EXISTING SANITARY SEWER MAIN (UNDERGROUND)
FO	---	FO	---	EXISTING COMMUNICATION CONDUIT (UNDERGROUND)
E	---	E	---	EXISTING F.P.L. CONDUIT (UNDERGROUND)
SS	---	SS	---	EXISTING SOLID DRAINAGE PIPE / SLAB COVER TRENCH (UNDERGROUND)
	---		---	EXISTING EXFILTRATION DRAIN (UNDERGROUND)
OUL	---	OUL	---	EXISTING F.P.L. CONDUIT (OVERHEAD)
	---		---	PROPOSED EXFILTRATION DRAIN (UNDERGROUND)
	---		---	PROPOSED SOLID DRAINAGE PIPE (UNDERGROUND)
	---	(S-#)	---	PROPOSED DRAINAGE STRUCTURE (INLET/M.H.) ID
	---	(EX-#)	---	EXISTING DRAINAGE STRUCTURE (INLET) ID
FM	---	FM	---	EXISTING FORCE MAIN (UNDERGROUND)
	---		---	EXISTING CATCH BASIN
	---		---	PROP. CATCH BASIN
	---		---	PROP. DRAINAGE MANHOLE
	---		---	EXISTING DRAINAGE MANHOLE
	---		---	EXISTING SAN. SEWER MANHOLE
	---		---	EXISTING WATER MAIN VALVE BOX
	---		---	EXISTING FORCE MAIN VALVE BOX
	---		---	EXISTING WATER METER
	---		---	EXISTING ELECTRICAL PANEL/PULL BOX
	---		---	EXISTING COMMUNICATION PANEL/PULL BOX
	---		---	EXISTING FIRE HYDRANT

**ROADWAY PLANS LEGEND:**

(XX)	---	AMOUNT OF SIDEWALK FLAG TO BE REPLACED
(1)	---	EXISTING SANITARY SEWER / DRAINAGE MANHOLE TO BE ADJUSTED BY A LICENSED CONTRACTOR
(2)	---	EXISTING WATER/FORCE MAIN/GAS VALVE BOX & LID TO BE ADJUSTED BY A LICENSED CONTRACTOR
(3)	---	CONTINGENCY: REPLACE EXIST. CONCRETE DRIVEWAY BY 6" CONCRETE DRIVEWAY (MATCH EXIST. LAYOUT AND STAMP PATTERN)
	---	CONSTRUCT 6" CONC. SIDEWALK, HANDICAP RAMPS, DRIVEWAYS & INLET APRONS
	---	AREA TO BE RESODDED.
	---	MILLING EXISTING ASPHALT PAVEMENT (½" AVERAGE) RESURFACING WITH 1 LIFT (1") OF SP-9.5 ASPHALTIC CONCRETE SURFACE COURSE (INSTALL W/ THE SECOND LIFT OF THE PAVEMENT RESTORATION AND NEW PAVEMENT)
	---	EXIST. ASPHALT DRIVEWAY TO BE RESURFACED W/ 1" SP-9.5 CONCRETE ASPHALT.
	---	EXIST. PAVER DRIVEWAY TO BE RESURFACED. SEE PAVER DRIVEWAY RESTORATION DETAIL SHEET C-13
	---	<u>NEW PAVEMENT/ WIDENING/ DRAINAGE TRENCH RESTORATION</u>
	---	- 2 LIFTS OF (1") SP-9.5 ASPHALTIC CONC.
	---	- 8" MIN. BASE COURSE COMPACTED TO MIN. 98% (MODIFIED PROCTOR) MIN. LBR=100 PER AASHTO T-180
	---	- 12" STABILIZED SUBBASE, COMPACTED TO MIN. 98%, MIN. LBR=40, PER AASHTO T-180

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	---		---	EXISTING FORCE MAIN VALVE BOX
	---		---	EXISTING WATER METER
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**ROADWAY PLANS LEGEND:**

(XX)	---	AMOUNT OF SIDEWALK FLAG TO BE REPLACED
(1)	---	EXISTING SANITARY SEWER / DRAINAGE MANHOLE TO BE ADJUSTED BY A LICENSED CONTRACTOR
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	---	CONSTRUCT 6" CONC. SIDEWALK, HANDICAP RAMPS, DRIVEWAYS & INLET APRONS
	---	AREA TO BE RESODDED.
	---	MILLING EXISTING ASPHALT PAVEMENT (½" AVERAGE) RESURFACING WITH 1 LIFT (1") OF SP-9.5 ASPHALTIC CONCRETE SURFACE COURSE (INSTALL W/ THE SECOND LIFT OF THE PAVEMENT RESTORATION AND NEW PAVEMENT)
	---	EXIST. ASPHALT DRIVEWAY TO BE RESURFACED W/ 1" SP-9.5 CONCRETE ASPHALT.
	---	EXIST. PAVER DRIVEWAY TO BE RESURFACED. SEE PAVER DRIVEWAY RESTORATION DETAIL SHEET C-13
	---	<u>NEW PAVEMENT/ WIDENING/ DRAINAGE TRENCH RESTORATION</u>
	---	- 2 LIFTS OF (1") SP-9.5 ASPHALTIC CONC.
	---	- 8" MIN. BASE COURSE COMPACTED TO MIN. 98% (MODIFIED PROCTOR) MIN. LBR=100 PER AASHTO T-180
	---	- 12" STABILIZED SUBBASE, COMPACTED TO MIN. 98%, MIN. LBR=40, PER AASHTO T-180

**ABBREVIATIONS:**

BLDG.	=	BUILDING
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℄	=	BASE LINE
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CONST.	=	CONSTRUCT
DET.	=	DETAIL
D.I.P.	=	DUCTILE IRON PIPE
EXIST.	=	EXISTING
F.F.E.	=	FINISHED FLOOR ELEVATION
F.H. / FH	=	FIRE HYDRANT
F.M. / FM	=	FORCE MAIN
H.D.P.E.	=	HIGH DENSITY POLYETHYLENE
HORIZ.	=	HORIZONTAL
INV.	=	INVERT
L.F.	=	LINEAR FEET
M-DWASD	=	MIAMI-DADE WATER AND SEWER DEPT.
M-DPW	=	MIAMI DADE PUBLIC WORKS
M.E.G.	=	MATCH EXISTING GRADE
MIN.	=	MINIMUM
P.I.V.	=	POST INDICATOR VALVE
P.G.P.	=	PROPOSED GRADING POINT
P.G.L.	=	PROPOSED GRADING LINE
P/L, ℄	=	PROPERTY LINE
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SAN.	=	SANITARY SEWER
R/W, ROW	=	RIGHT OF WAY
SEC.	=	SECTION
SERV.	=	SERVICE
S/L, ⚡	=	SECTION LINE
STA.	=	STATION
STD.	=	STANDARD
SWK.	=	SIDEWALK
T.O.P.	=	TOP OF PIPE
U.S.F.	=	US FOUNDRY
VERT.	=	VERTICAL
W.M. / WM	=	WATER MAIN
W.S.	=	WATER SERVICE
T.B.F.V.	=	TO BE FIELD VERIFIED

**UTILITIES LEGEND:**

WM	---	WM	---	EXISTING WATER MAIN (UNDERGROUND)
SAN	---	SAN	---	EXISTING SANITARY SEWER MAIN (UNDERGROUND)
FO	---	FO	---	EXISTING COMMUNICATION CONDUIT (UNDERGROUND)
E	---	E	---	EXISTING F.P.L. CONDUIT (UNDERGROUND)
SS	---	SS	---	EXISTING SOLID DRAINAGE PIPE / SLAB COVER TRENCH (UNDERGROUND)
	---		---	EXISTING EXFILTRATION DRAIN (UNDERGROUND)
OUL	---	OUL	---	EXISTING F.P.L. CONDUIT (OVERHEAD)
	---		---	PROPOSED EXFILTRATION DRAIN (UNDERGROUND)
	---		---	PROPOSED SOLID DRAINAGE PIPE (UNDERGROUND)
	---	(S-#)	---	PROPOSED DRAINAGE STRUCTURE (INLET/M.H.) ID
	---	(EX-#)	---	EXISTING DRAINAGE STRUCTURE (INLET) ID
FM	---	FM	---	EXISTING FORCE MAIN (UNDERGROUND)
	---		---	EXISTING CATCH BASIN
	---		---	PROP. CATCH BASIN
	---		---	PROP. DRAINAGE MANHOLE
	---		---	EXISTING DRAINAGE MANHOLE
	---		---	EXISTING SAN. SEWER MANHOLE
	---		---	EXISTING WATER MAIN VALVE BOX
	---		---	EXISTING FORCE MAIN VALVE BOX
	---		---	EXISTING WATER METER
	---		---	EXISTING ELECTRICAL PANEL/PULL BOX
	---		---	EXISTING COMMUNICATION PANEL/PULL BOX
	---		---	EXISTING FIRE HYDRANT

**ROADWAY PLANS LEGEND:**

(XX)	---	AMOUNT OF SIDEWALK FLAG TO BE REPLACED
(1)	---	EXISTING SANITARY SEWER / DRAINAGE MANHOLE TO BE ADJUSTED BY A LICENSED CONTRACTOR
(2)	---	EXISTING WATER/FORCE MAIN/GAS VALVE BOX & LID TO BE ADJUSTED BY A LICENSED CONTRACTOR
(3)	---	CONTINGENCY: REPLACE EXIST. CONCRETE DRIVEWAY BY 6" CONCRETE DRIVEWAY (MATCH EXIST. LAYOUT AND STAMP PATTERN)
	---	CONSTRUCT 6" CONC. SIDEWALK, HANDICAP RAMPS, DRIVEWAYS & INLET APRONS
	---	AREA TO BE RESODDED.
	---	MILLING EXISTING ASPHALT PAVEMENT (½" AVERAGE) RESURFACING WITH 1 LIFT (1") OF SP-9.5 ASPHALTIC CONCRETE SURFACE COURSE (INSTALL W/ THE SECOND LIFT OF THE PAVEMENT RESTORATION AND NEW PAVEMENT)
	---	EXIST. ASPHALT DRIVEWAY TO BE RESURFACED W/ 1" SP-9.5 CONCRETE ASPHALT.
	---	EXIST. PAVER DRIVEWAY TO BE RESURFACED. SEE PAVER DRIVEWAY RESTORATION DETAIL SHEET C-13
	---	<u>NEW PAVEMENT/ WIDENING/ DRAINAGE TRENCH RESTORATION</u>
	---	- 2 LIFTS OF (1") SP-9.5 ASPHALTIC CONC.
	---	- 8" MIN. BASE COURSE COMPACTED TO MIN. 98% (MODIFIED PROCTOR) MIN. LBR=100 PER AASHTO T-180
	---	- 12" STABILIZED SUBBASE, COMPACTED TO MIN. 98%, MIN. LBR=40, PER AASHTO T-180

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STD.		



**PAY ITEM DESCRIPTION**

1	CONTRACTOR SHALL FURNISH AS-BUILT PLANS SIGNED AND SEALED BY AND PROFESSIONAL LAND SURVEYOR TO THE TOWN OF CUTLER BAY TO BE ACCOMPLISHED IN ACCORDANCE WITH THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS, U.S. DEPARTMENT OF TRANSPORTATION FEDERAL HIGHWAY ADMINISTRATION. PUBLIC WORKS MANUAL OF MIAMI DADE COUNTY, THE LATEST REVISIONS OF THE AFOREMENTIONED MANUALS AT TIME OF CONSTRUCTION WITH ENGINEER APPROVAL, AND IN ACCORDANCE WITH THE LATEST FLORIDA DEPARTMENT OF TRANSPORTATION DESIGN STANDARDS INDEX 102 SERIES. INCLUDES THE COST OF CONSTRUCTION OF TEMPORARY PAVEMENT & ITS SUBSEQUENT REMOVAL.
102-1	THIS ITEM IS TO BE USED IN ACCORDANCE WITH THE PLANS, STANDARDS, AND/OR EROSION AND SEDIMENT CONTROL MANUAL FOR THE PROTECTION OF EXISTING INLETS. PAYMENT PER EACH INLET INCLUDES ALL WORK AND MATERIALS FOR A COMPLETE SYSTEM. PROPOSED INLETS: THE PAYMENT FOR PROTECTING NEW INLETS IS INCIDENTAL TO THE COST OF THE NEW INLET. CURB INLET FILTERS, CURB INSERT PROTECTION SYSTEMS, PIPE END CAP FILTERS, DITCH BOTTOM INLET PROTECTION SYSTEMS ("CAPS", BARRIERS, AND OTHER MATERIALS), ARE INCLUDED IN THIS PAY ITEM.
104-18	CONSISTS OF COMPLETE REMOVAL AND DISPOSAL OF ALL VEGETATION, DEBRIS, DRAINAGE STRUCTURES, DRAINAGE PIPES, FLEXIBLE PAVEMENT, OR ANY OTHER OBSTRUCTIONS IN ALL AREAS WHERE EXCAVATION IS TO BE DONE, OR WHERE EMBANKMENTS OR STRUCTURES WILL BE CONSTRUCTED. THIS INCLUDES ROADWAY AREA, DITCH AREA, BORROW AND MATERIAL PITS, AND AREAS WHERE CULVERTS OR PIPELINES WILL BE CONSTRUCTED. ALSO INCLUDES SHRUB AND TREE TRIMMING. ALL DEBRIS SHOULD BE DISPOSED OF IN LEGAL AREAS PROVIDED BY THE CONTRACTOR.
110-1-1	CONSISTS OF REMOVING AND DISPOSING OF EXISTING CONCRETE PAVEMENT, CONCRETE SIDEWALKS, CONCRETE APRONS, DITCH PAVEMENT, CONCRETE PAVERS, AND CURB AND GUTTER.
110-4-10	THE DISPOSAL OF MUCK, CLAY, ROCK, OR OTHER UNSUITABLE MATERIAL THAT COULD EXIST.
120-4	INCLUDES ALL WORK AND MATERIALS (SUITABLE MATERIAL) PER FDOT SECTION 120 AND INDEX 120-001 REPLACE WITH CLEAN FILL THE VOLUME OF SUBSOIL EXCAVATION (PAY ITEM 120-4).
120-6	INCLUDES EXCAVATION FOR BOX CULVERTS, PIPE CULVERTS (SOLID PIPE), INLETS, MANHOLES, AND SIMILAR STRUCTURES. BASE AND SUB-BASE EXCAVATION WITHIN TRENCH RESTORATION IS INCLUDED IN THIS PAID ITEM. THESE ARE ESTIMATED QUANTITIES AND MAY BE INCREASED OR DECREASED.
125-1	INCLUDES ALL WORK AND MATERIALS SPECIFIED IN SECTION 160 (FDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION), INCLUDING FURNISHING, SPREADING, AND MIXING OF ALL STABILIZING MATERIAL REQUIRED AND ANY REPROCESSING OF STABILIZATION AREAS NECESSARY TO ATTAIN THE SPECIFIED BEARING VALUE.
160-4	CONSISTS OF REMOVING EXISTING AC PAVEMENT TO IMPROVE THE RIDEABILITY OF THE FINISHED PAVEMENT, TO LOWER THE FINISHED GRADE ADJACENT TO EXISTING CURB PRIOR TO RESURFACING, OR TO COMPLETELY REMOVE EXISTING PAVEMENT. INCLUDES TRANSPORTING THE MILLED MATERIAL TO THE ASPHALT PLANT SITE AND STOCKPILING THE MATERIAL. ALSO INCLUDES REMOVAL OF EXISTING REFLECTIVE PAVEMENT MARKER
327-70-16	INCLUDES: POLLUTION RETARDANT BAFFLE, FRAME, GRATES, COVERS, MATERIALS, METAL PIPE ENCASUREMENT, INLET PROTECTION (PAY ITEM DESCRIPTION 104-18), LABOR AND CONSTRUCTION SHALL BE INCLUDED IN COST OF STRUCTURES.
425-1-SERIES 425-2-SERIES	WITHIN PAVEMENT AREA, MANHOLES AND VALVE BOXES TO BE ADJUSTED AS NECESSARY.
425-5 & 425-6	INCLUDES FURNISHING AND PLACING: PIPE PLUGS, PIPE FITTING, CAPS, CONCRETE JACKET AND SOLID PIPES.
430-174-SERIES	INCLUDES: EXCAVATION TO PLAN ELEVATION (15 FEET DEEP. SEE DETAILS SHEETS), FURNISHING AND PLACING: (PIPE PLUGS, PIPE FITTINGS, PERFORATED PIPES, BALLAST ROCK AND BACKFILLING WITH SELECT FILL, FILTER FABRIC AND ALL APPLICABLE ITEMS REQUIRED TO CONSTRUCT DRAIN). ALSO, IT IS INCLUDED THE ADDITIONAL COST OF EXCAVATING AROUND THE LATERALS SERVICING SAID PROPERTIES.
443-70-SERIES	ESTIMATED QUANTITY FOR: DRIVEWAYS, SIDEWALK, RAMPS, APRON, AND CONC. SLAB (REINFORCED) TO BE CONSTRUCTED AT LOCATIONS SHOWN IN THE PLANS AND/OR AS DIRECTED BY THE ENGINEER.
522-2	INCLUDES ALL LABOR AND MATERIALS (PAVER, SAND LEVELING COURSE, 6" LIMEROCK, AND ANY PROCESSING OR MATERIAL NECESSARY TO COMPLETE PAVER INSTALLATION.)
526-1-1	INCLUDES 4" TOPSOIL LAYER AND SOD TO BE USED IN THE RESTORATION OF LAWNS AND MAY BE INCREASED OR DECREASED AS DIRECTED BY THE TOWN OF CUTLER BAY. BAHIA SOD OR TO MATCH EXISTING SOD.
570-1-2	THIS ITEM INCLUDES ALL SIGN PANEL(S), COLUMN(POST), FOUNDATION, HARDWARE AND MATERIALS NECESSARY FOR A COMPLETE ASSEMBLY.
700-1-11	

**QUANTITIES AND PAY ITEM NOTES:**

- EXCESS AND/OR UNDESIRABLE MATERIAL TO BE DISPOSED OF BY CONTRACTOR IN LEGAL AREAS PROVIDED BY HIM. NO SEPARATE PAYMENT WILL BE MADE FOR THIS ITEM.
- ANY EXCAVATED MATERIAL, IF UNSUITABLE, SHALL NOT BE USED IN THE CONSTRUCTION OF THE EMBANKMENT.
- ASPHALT DRIVEWAY RESTORATION IS INCLUDED IN THE PAY ITEM 334-1-13.
- THE CONTINGENCY ITEM MUST BE APPROVED BY THE ENGINEER ON RECORD AND THE TOWN.
- THE 5 L.F. OF SOLID PIPE ON BOTH SIDES OF THE FRENCH DRAIN ARE INCLUDED IN THE QUANTITIES LISTED UNDER PAY ITEMS 430-174-SERIES AND 125-1 (EXCAVATION)
- THE PRICE FOR CUTTING AND RECONNECTING EXISTING DRAINAGE PIPES TO THE PROPOSED DRAINAGE SYSTEM IS INCLUDED IN PAY ITEMS 425-1-SERIES AND 425-2-SERIES.
- REFER TO FDOT'S "DESIGN QUANTITIES AND ESTIMATES" (DQE) FOR MORE INFORMATION ON THE PAYMENT ITEM DESCRIPTIONS.

THE USE OF THESE PLANS AND SPECIFICATIONS SHALL BE RESTRICTED TO THE ORIGINAL SITE FOR WHICH THEY WERE PREPARED AND PUBLICATION HEREOF IS EXPRESSLY LIMITED TO SUCH USE. REUSE, REPRODUCTION OR PUBLICATION BY ANY METHOD, IN WHOLE OR IN PART IS PROHIBITED. TITLE TO THE PLANS AND SPECIFICATIONS REMAINS WITH SRS ENGINEERS, INC. WITHOUT PREJUDICE. VISUAL CONTACT WITH THESE PLANS AND SPECIFICATIONS SHALL CONSTITUTE PRIMA FACIE EVIDENCE OF THE RESTRICTIONS.

5001 Southwind 7th Court, Suite 201  
Miami, Florida 33152-4453  
TEL: 305-662-8887 FAX: 305-662-8858  
WWW.SRS-CON.COM

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CUTLER BAY  
TOWN HALL  
10720 CARIBBEAN  
BOULEVARD  
CUTLER BAY, FL 33189  
PHONE: (305) 234-4262  
FAX: (305) 234-4251

**CUTLER BAY - ROADWAY & DRAINAGE IMPROVEMENTS AREA # 3**

**PAY ITEMS NOTES**

SCALE: AS SHOWN  
PROJECT NO.: 2151  
DWG. NO.:  
SHEET: C-5.0

ROADWAY			
Item	Pay Item No.	Description	Unit Measure
1	001	AS BUILT	1 LS
2	101-1	MOBILIZATION	1 LS
3	102-1	MAINTENANCE OF TRAFFIC	1 LS
4	102-14	TRAFFIC CONTROL OFFICER ALLOWANCE	50 HR
5	104-18	INLET PROTECTION SYSTEM (EXISTING INLETS)	17 EA
6	110-1-1	CLEARING AND GRUBBING	1 LS
7	110-4-10	REMOVAL OF EXISTING CONCRETE + (30% CONTINGENCY)	145 SY
8	120-4	SUBSOIL EXCAVATION (CONTINGENCY)	100 CY
9	120-6	EMBANKMENT (CONTINGENCY)	100 CY
10	125-1	EXCAVATION FOR STRUCTURES AND SOLID PIPES	750 CY
11	160-4	TYPE B STABILIZATION	1,400 SY
12	285-706	LIMEROCK BASE (8") (OPTIONAL BASE, BASE GROUP 06)	1,400 SY
13	327-70-16	MILLING EXISTING ASPHALT PAVEMENT (1/2" AVG. DEPTH)	1,350 SY
14	334-1-13	SUPERPAVE ASPHALTIC CONC, TRAFFIC C, SP-9.5 (1")	275 TN
15	425-1-28	SD-3.1 SWALE INLET TYPE D-1 (17" x 27") < 10' (M-DPWD PAY ITEM)	3 EA
16	425-1-604	SD-2.7 SWALE INLETS (TYPE-P), <10' (M-DPWD PAY ITEM)	2 EA
17	425-2-41	SD-2.7 MANHOLES, P-7, < 10' (M-DPWD PAY ITEM)	4 EA
18	425-2-42	SD-2.7 MANHOLES, P-7, > 10' (M-DPWD PAY ITEM)	1 EA
19	425-2-71	SD-2.6 MANHOLES, J-7, < 10' (M-DPWD PAY ITEM)	4 EA
20	425-5	MANHOLE, ADJUST	5 EA
21	425-6	VALVE BOXES, ADJUST	2 EA
22	430-94-1	DESILTING PIPE, 0 - 24	765 LF
23	430-174-115	PIPE CULVERT, OPTIONAL MATERIAL, ROUND, 15"SD	60 LF
24	430-174-118	PIPE CULVERT, OPTIONAL MATERIAL, ROUND, 18"SD (HDPE)	175 LF
25	443-70-3	EXFILTRATION DRAIN (18")	786 LF
26	522-2	CONCRETE SIDEWALK (6" THICK) (SIDEWALK, RAMP, APRON, DRIVEWAY & SALB)	450 SY
27	526-1-1	PAVERS, ARCHITECTURAL, ROADWAY	50 SY
28	527-2	DETECTABLE WARNINGS (CONTINGENCY)	10 SF
29	570-1-2	PERFORMANCE TURF, SOD	1,400 SY

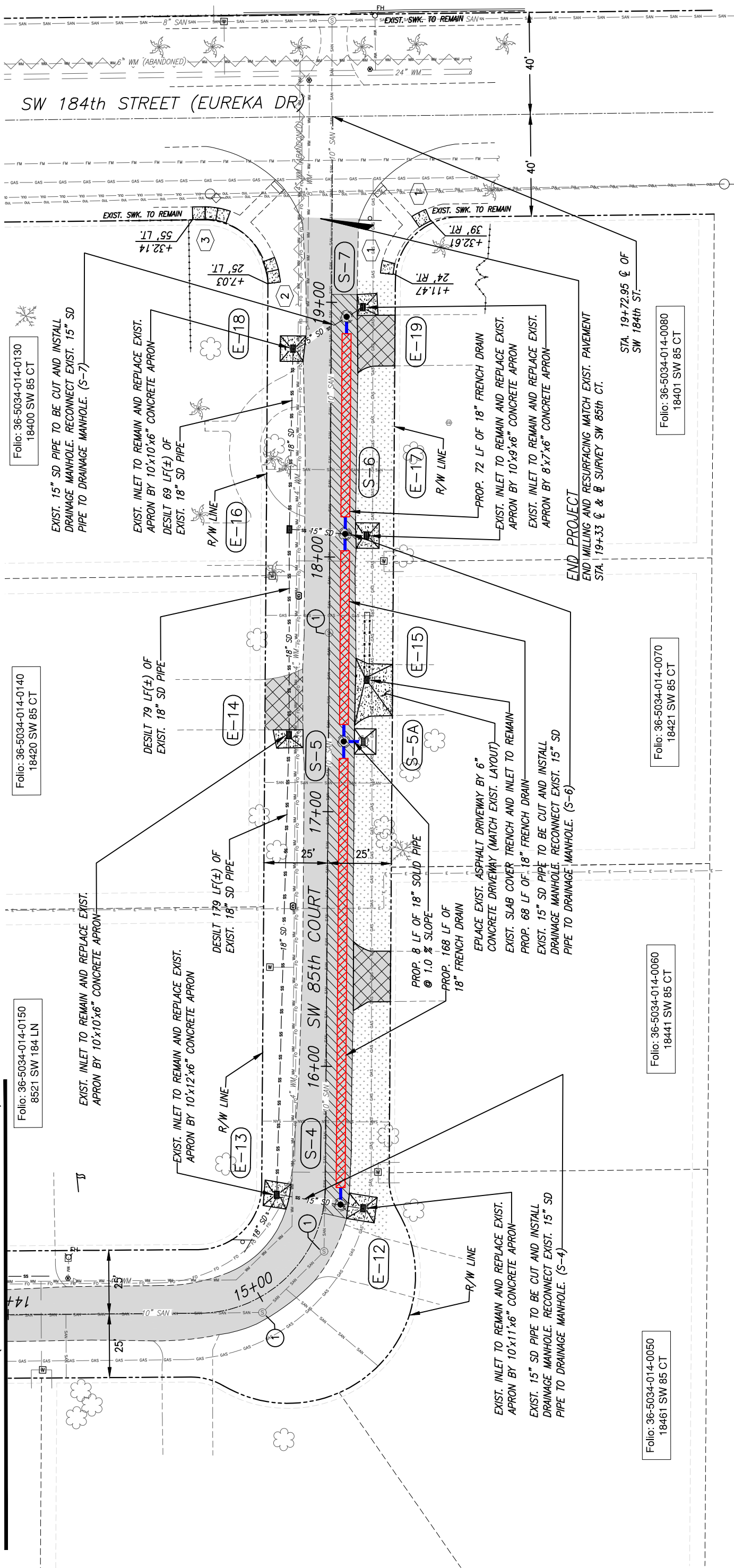
PAVEMENT MARKING AND SIGNAGE			
Item	Pay Item No.	Description	Unit Measure
30	710-11-101	PAINTED PAVEMENT MARKINGS, STANDARD, WHITE, SOLID, 6"	0.01 GM
31	710-11-123	PAINTED PAVEMENT MARKINGS, STANDARD, WHITE, SOLID FOR CROSSWALK AND ROUNDABOUT, 12"	120 LF
32	710-11-125	PAINTED PAVEMENT MARKINGS, STANDARD, WHITE, SOLID FOR STOP LINE OR CROSSWALK, 24"	25 LF
33	710-11-201	PAINTED PAVEMENT MARKINGS, STANDARD, YELLOW, SOLID, 6"	0.15 GM
34	700-1-11	SINGLE POST SIGN, F&I GROUND MOUNT, UP TO 12 SF	3 AS
35	700-3-601	SIGN PANEL, REMOVE, UP TO 12 SF	1 EA
36	706-1-1	RAISED PAVEMENT MARKER, TYPE B WITHOUT FINAL SURFACE MARKINGS (Y/Y, W/R & BLUE)	25 EA
37	711-11-123	THERMOPLASTIC, STANDARD, WHITE, SOLID, 12" FOR CROSSWALK AND ROUNDABOUT	120 LF
38	711-11-125	THERMOPLASTIC, STANDARD, WHITE, SOLID, 24" FOR STOP LINE AND CROSSWALK	25 LF
39	711-16-101	THERMOPLASTIC, STANDARD-OTHER SURFACES, WHITE, SOLID, 6"	0.01 GM
40	711-16-201	THERMOPLASTIC, STANDARD-OTHER SURFACES, YELLOW, SOLID, 6"	0.15 GM

 <p style="font-size: 8px; margin: 0;">5001 Southwest 7th Court, Suite 201 Miami, Florida 33152-4453 TEL: 305-662-8887, FAX: 305-662-8858 WWW.SRS-CONV.COM</p>	 <p style="font-size: 8px; margin: 0;">CUTLER BAY TOWN HALL 10720 CARIBBEAN BOULEVARD CUTLER BAY, FL 33189 PHONE: (305) 234-4262 FAX: (305) 234-4251</p>	<h2 style="margin: 0;">SUMMARY OF QUANTITIES</h2> <h1 style="margin: 0;">CUTLER BAY - ROADWAY &amp; DRAINAGE IMPROVEMENTS</h1> <h2 style="margin: 0;">AREA # 3</h2>
DESIGNED BY: O.B. DRAWN BY: O.B. CHECKED BY: J.C.F. DATE: 12/6/2023	SEAL:	SCALE: AS SHOWN PROJECT NO.: 2151 DWG. NO.: SHEET: C-5.1





MATCH LINE STA. 14+00 (FOR CONTINUATION SEE SHEET C-6)



**NOTE:**

1. ALL EXISTING BROKEN SIDEWALKS SHALL BE REPLACED (SAW CUT). INSTALLS SIDEWALK FLAGS AS REQUIRED. SEE DETAIL "SIDEWALK FLAG REPLACEMENT" ON SHEET C-13, FOR THE AREA TO BE RESODDED.
2. ACCESSIBLE RAMP SHALL BE MAX. SLOPE 1:12 W/ 2' DETECTABLE WARNING SURFACE AS PER FDOT 522-002
3. SEE LEGEND AND ABBREVIATIONS ON SHEET C-4

REV.	DATE	BY:	DESCRIPTION

DESIGNED BY: C.B.  
 DRAWN BY: C.B.  
 CHECKED BY: J.C.F.  
 DATE: 12/6/2023



5001 Southwest 7th Court, Suite 201  
 Miami, Florida 33152-4453  
 TEL: 305-662-8887 FAX: 305-662-8858  
 WWW.SRS-ENG.COM



CUTLER BAY TOWN HALL  
 10720 CARRIBBEAN BOULEVARD  
 CUTLER BAY, FL 33189  
 PHONE: (305) 234-4262  
 FAX: (305) 234-4251

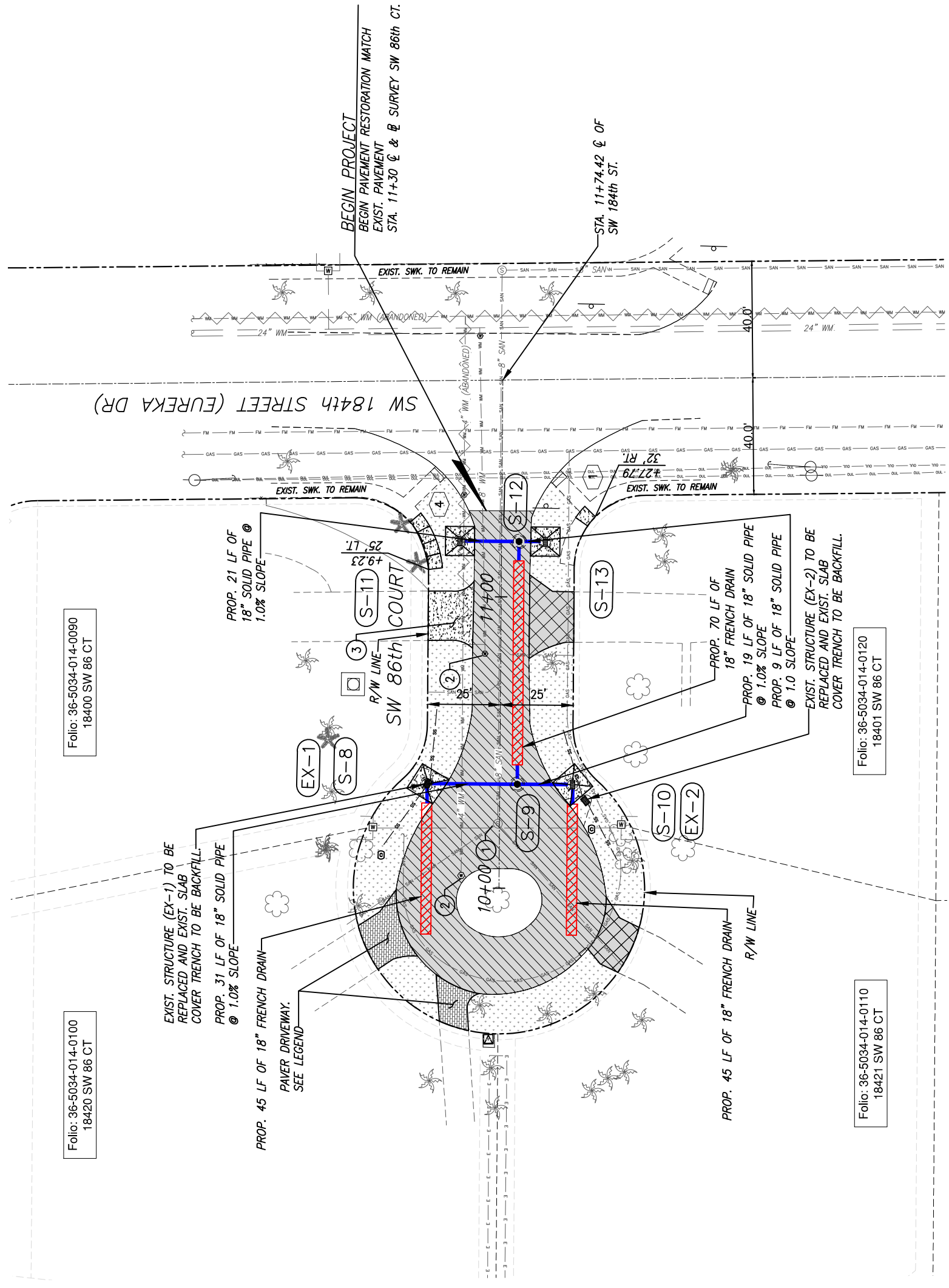
**CUTLER BAY - ROADWAY & DRAINAGE IMPROVEMENTS AREA # 3**

**ROADWAY PLAN**

SCALE: AS SHOWN  
 PROJECT NO.: 2151  
 DWG. NO.:  
 SHEET: C-7







**NOTE:**

- ALL EXISTING BROKEN SIDEWALKS SHALL BE REPLACED (SAW CUT). INSTALLS SIDEWALK FLAGS AS REQUIRED. SEE DETAIL "SIDEWALK FLAG REPLACEMENT" ON SHEET C-13, FOR THE AREA TO BE RESODDED.
- ACCESSIBLE RAMP SHALL BE MAX. SLOPE 1:12 W/ 2' DETECTABLE WARNING SURFACE AS PER FDOT 522-002
- SEE LEGEND AND ABBREVIATIONS ON SHEET C-4

Folio: 36-5034-014-0090  
18400 SW 86 CT

Folio: 36-5034-014-0100  
18420 SW 86 CT

Folio: 36-5034-014-0120  
18401 SW 86 CT

Folio: 36-5034-014-0110  
18421 SW 86 CT

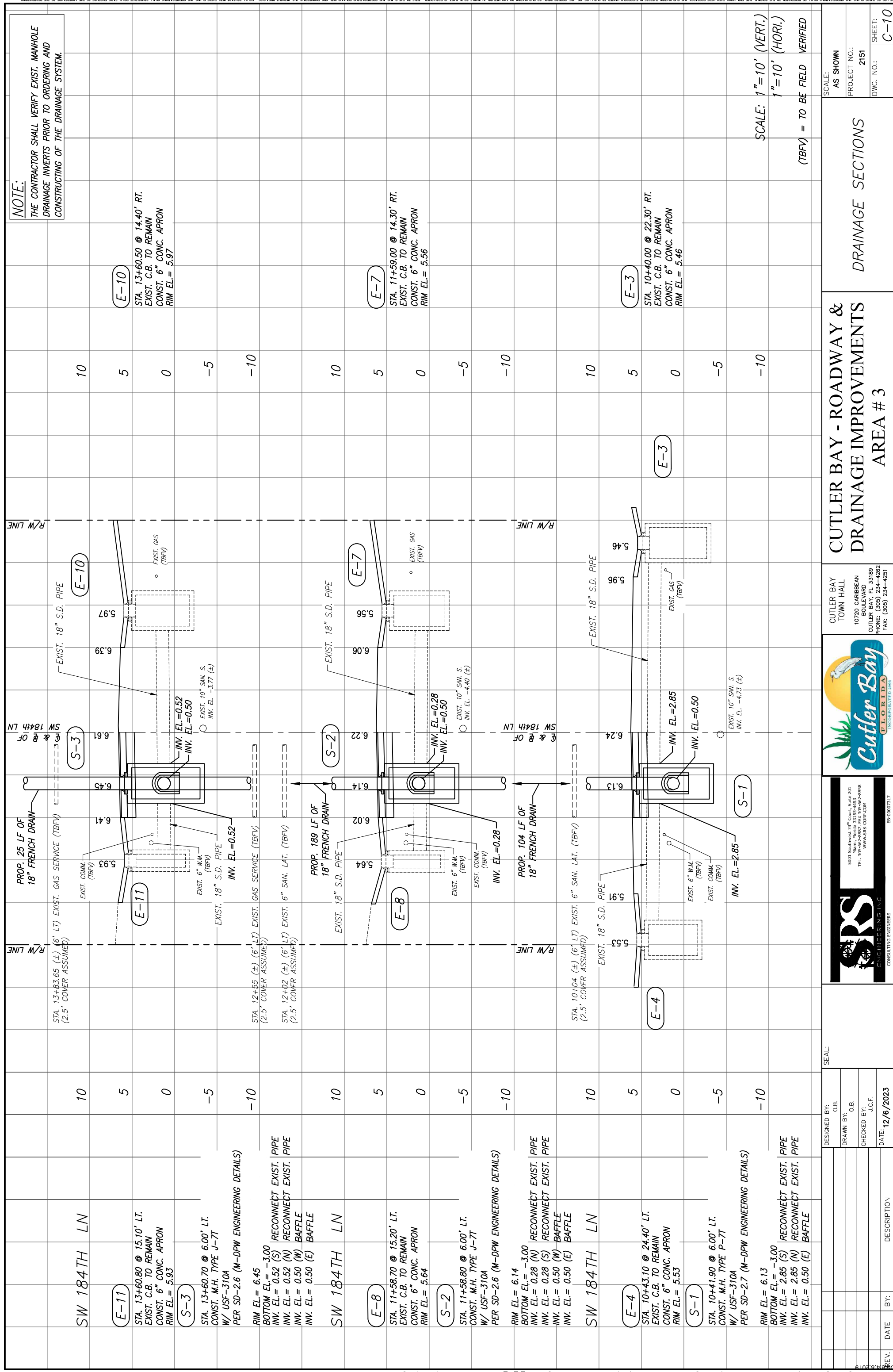


DESIGNED BY: C.B.	SEAL:	<p>5001 Southwest 7th Court, Suite 201 Miami, Florida 33152-4453 TEL: 305-662-8887 FAX: 305-662-8858 WWW.SRS-CON.COM</p>	<p>CUTLER BAY TOWN HALL 10720 CARIBBEAN BOULEVARD CUTLER BAY, FL 33189 PHONE: (305) 234-4262 FAX: (305) 234-4251</p>	<p><b>CUTLER BAY - ROADWAY &amp; DRAINAGE IMPROVEMENTS AREA # 3</b></p>	<p>ROADWAY PLAN</p>	
DRAWN BY: C.B.	<p>SCALE: AS SHOWN</p>					
CHECKED BY: J.C.F.	<p>PROJECT NO.: 2151</p>					
DATE: 12/6/2023	<p>DWG. NO.:</p>					
REV.	DATE	BY:	DESCRIPTION			

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**NOTE:**  
THE CONTRACTOR SHALL VERIFY EXIST. MANHOLE DRAINAGE INVERTS PRIOR TO ORDERING AND CONSTRUCTING OF THE DRAINAGE SYSTEM.

**E-10**  
STA. 13+60.50 @ 14.40' RT.  
EXIST. C.B. TO REMAIN  
CONST. 6" CONC. APRON  
RIM EL. = 5.97

**E-7**  
STA. 11+59.00 @ 14.30' RT.  
EXIST. C.B. TO REMAIN  
CONST. 6" CONC. APRON  
RIM EL. = 5.56

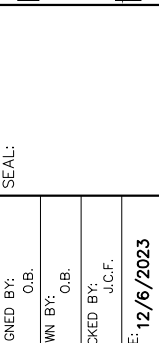
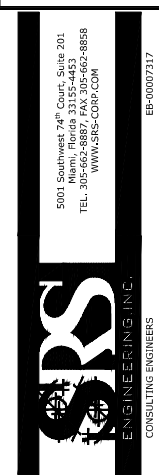
**E-3**  
STA. 10+40.00 @ 22.30' RT.  
EXIST. C.B. TO REMAIN  
CONST. 6" CONC. APRON  
RIM EL. = 5.46

SCALE: 1" = 10' (VERT.)  
1" = 10' (HORI.)  
(TBFV) = TO BE FIELD VERIFIED

SCALE: AS SHOWN  
PROJECT NO.: 2151  
DWG. NO.:  
SHEET: C-10

**CUTLER BAY - ROADWAY & DRAINAGE IMPROVEMENTS AREA # 3**

CUTLER BAY TOWN HALL  
10720 CARIBBEAN BOULEVARD  
CUTLER BAY, FL 33189  
PHONE: (305) 234-4262  
FAX: (305) 234-4251

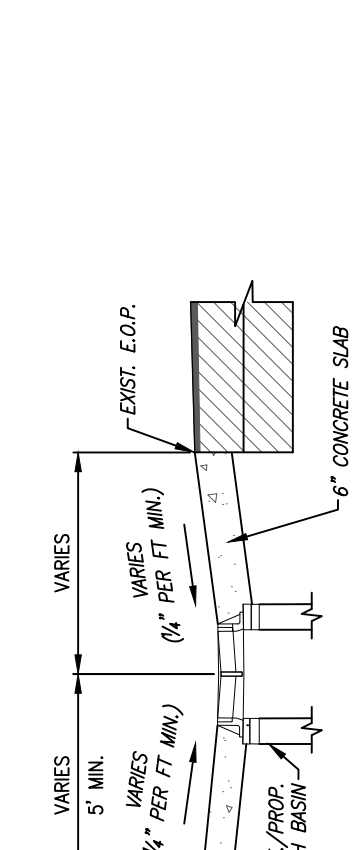
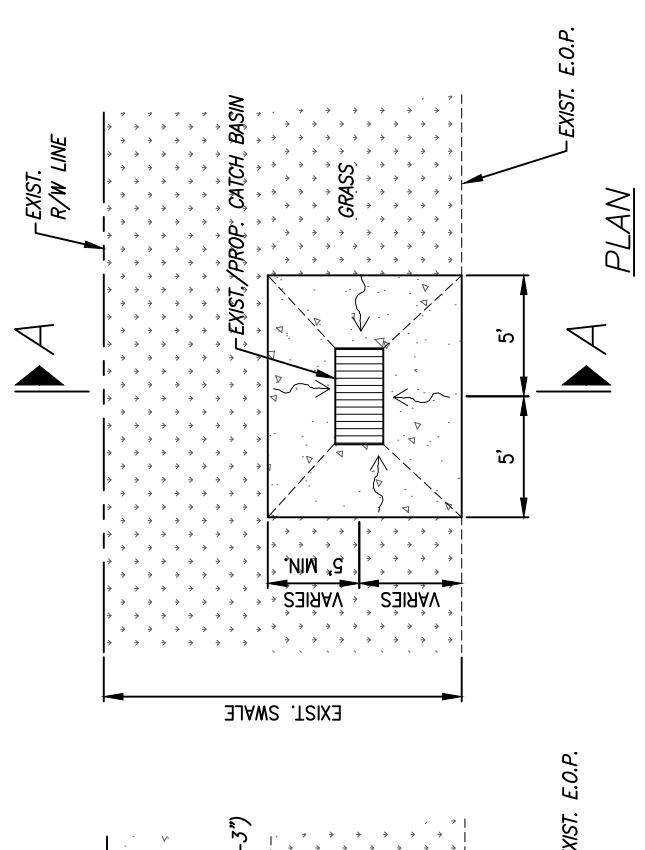
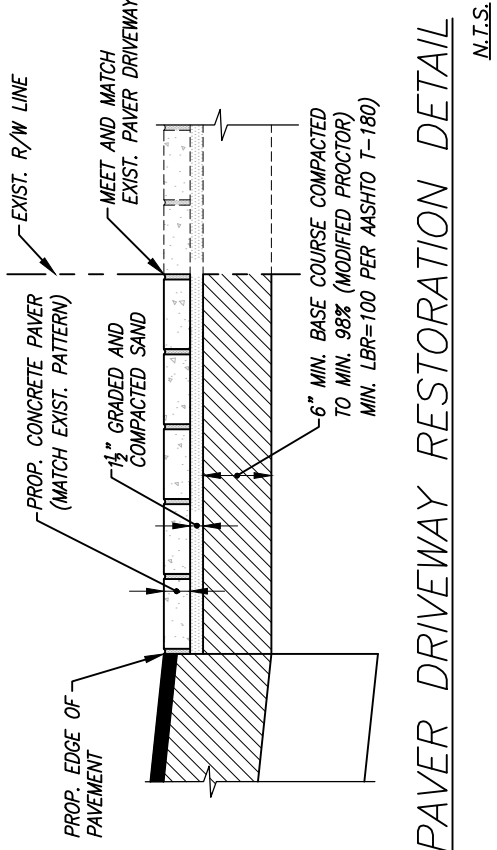
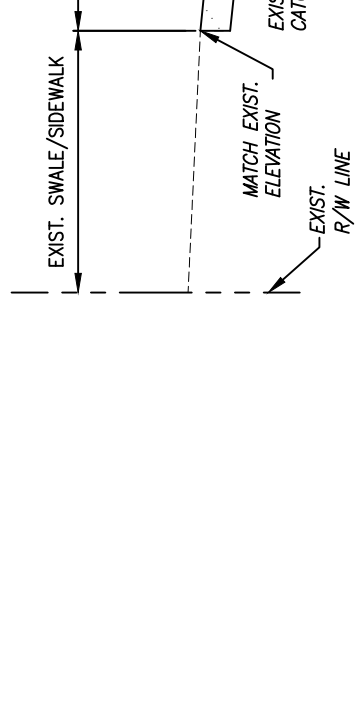
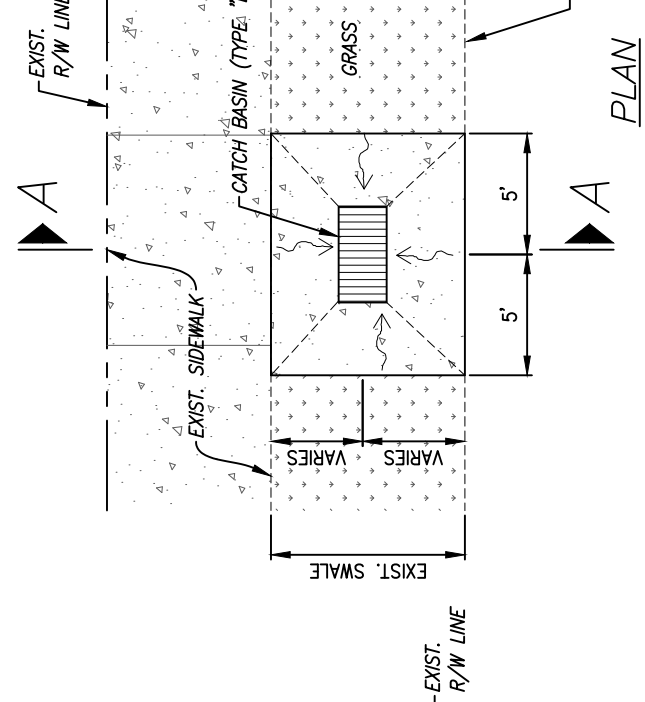
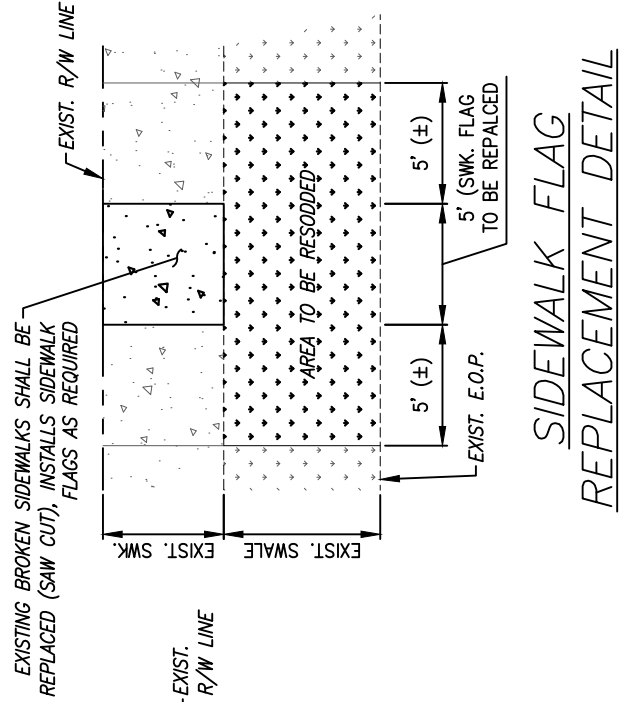
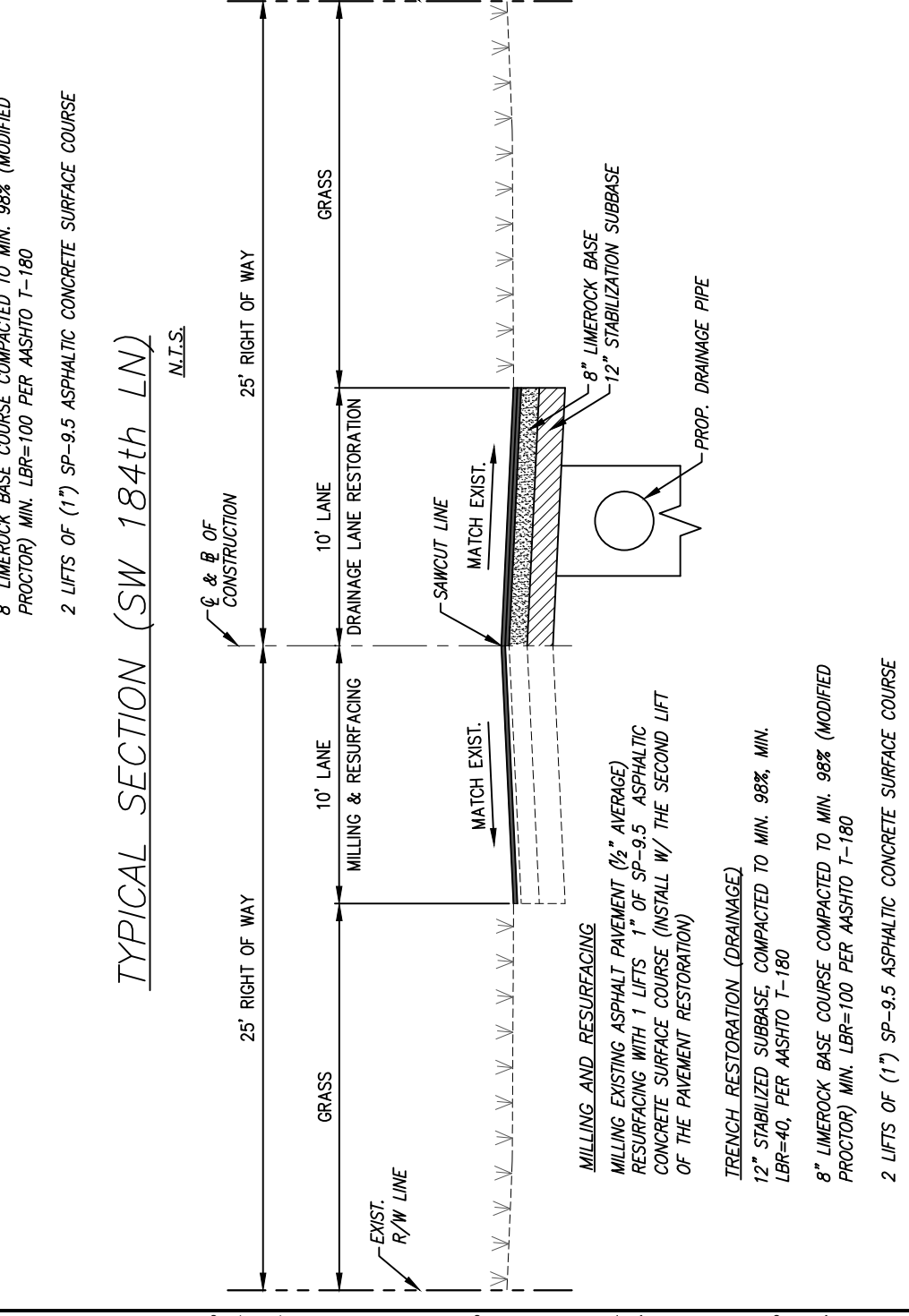
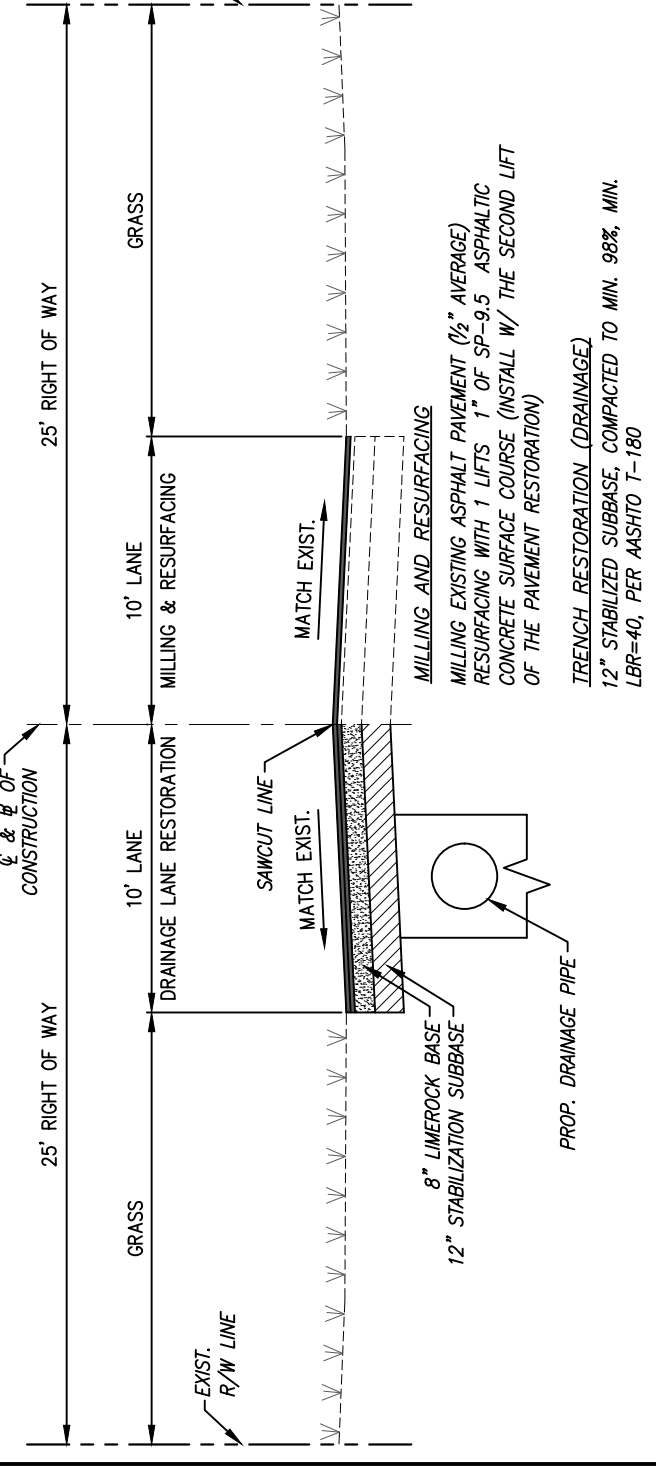


REV.	DATE	BY:	DESCRIPTION

DESIGNED BY: C.B.  
DRAWN BY: C.B.  
CHECKED BY: J.C.F.  
DATE: 12/6/2023



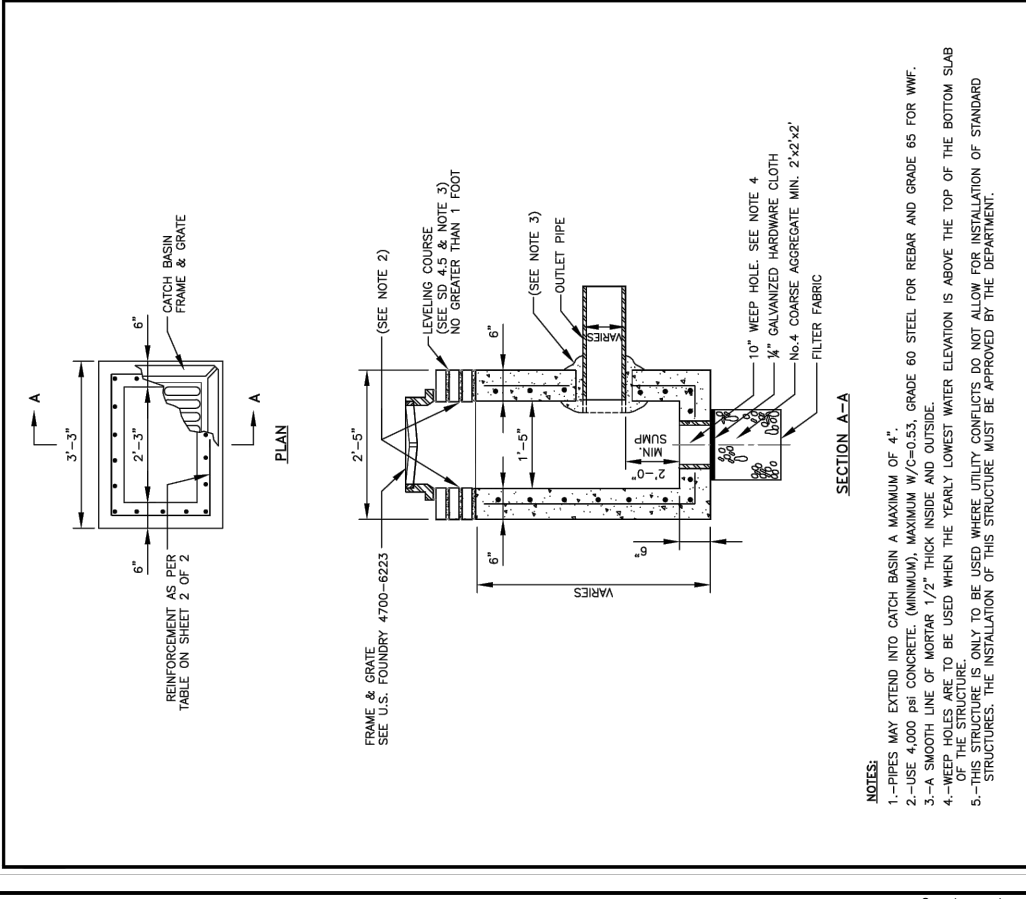




**6" CONCRETE APRON DETAIL**  
N.T.S.

DESIGNED BY: C.B.	SCALE: AS SHOWN	CUTLER BAY - ROADWAY & DRAINAGE IMPROVEMENTS AREA #3	MISCELLANEOUS DETAILS
DRAWN BY: C.B.	PROJECT NO.: 2151		
CHECKED BY: J.C.F.	DWG. NO.:	CUTLER BAY TOWN HALL 10720 CARIBBEAN BOULEVARD CUTLER BAY, FL 33189 PHONE: (305) 234-4262 FAX: (305) 234-4251	
DATE: 12/6/2023	SHEET: C-13	CUTLER BAY TOWN HALL 10720 CARIBBEAN BOULEVARD CUTLER BAY, FL 33189 PHONE: (305) 234-4262 FAX: (305) 234-4251	
REV. DATE BY: DESCRIPTION		CUTLER BAY TOWN HALL 10720 CARIBBEAN BOULEVARD CUTLER BAY, FL 33189 PHONE: (305) 234-4262 FAX: (305) 234-4251	



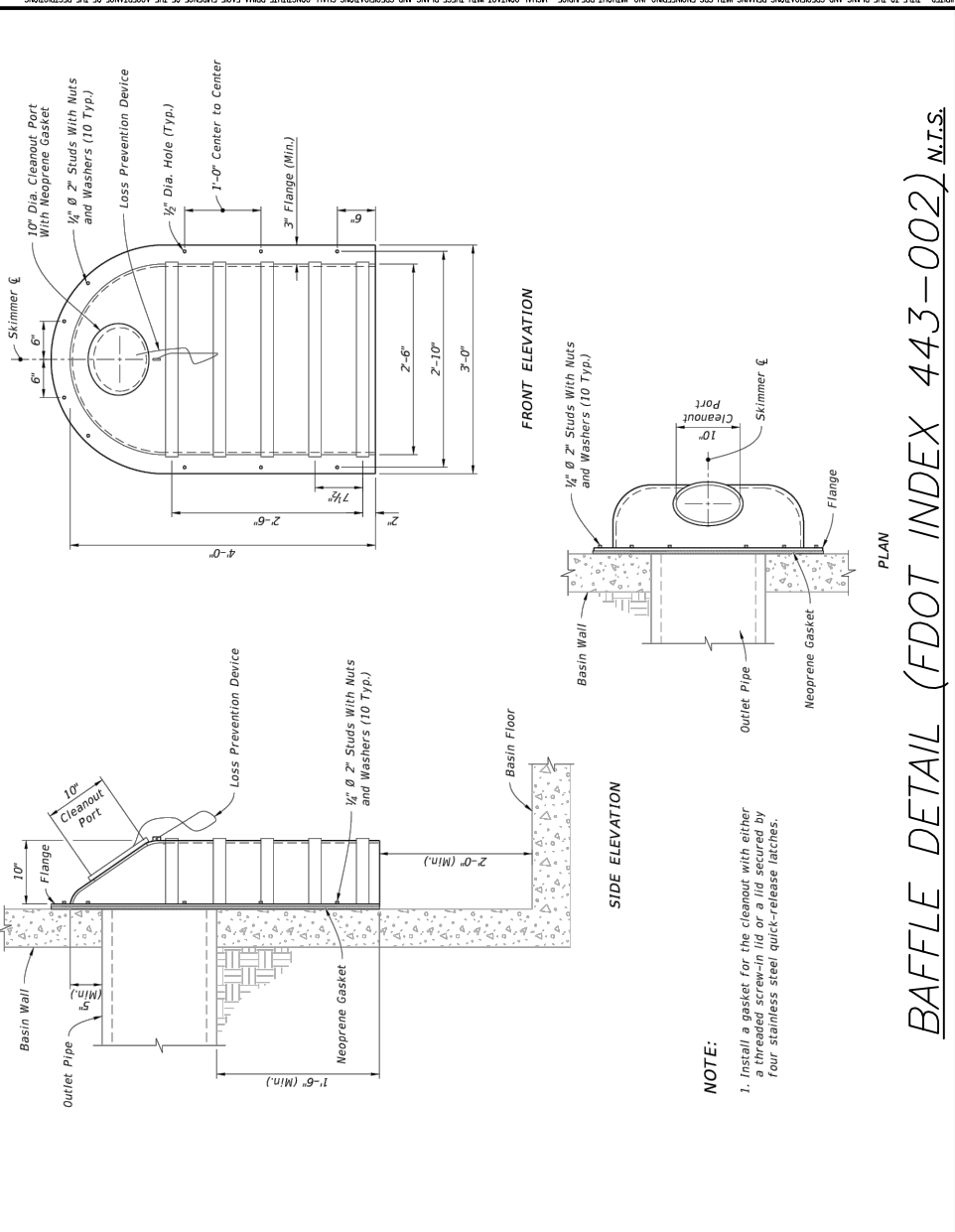


- NOTES:**
- 1.-PIPES MAY EXTEND INTO CATCH BASIN A MAXIMUM OF 4".
  - 2.-USE 4,000 PSI CONCRETE. (MINIMUM). MAXIMUM W/C=0.53. GRADE 60 STEEL FOR REBAR AND GRADE 65 FOR WWF.
  - 3.-A SMOOTH LINE OF MORTAR 1/2" THICK INSIDE AND OUTSIDE.
  - 4.-WEEP HOLES ARE TO BE USED WHEN THE YEARLY LOWEST WATER ELEVATION IS ABOVE THE TOP OF THE BOTTOM SLAB
  - 5.-THIS STRUCTURE IS ONLY TO BE USED WHERE UTILITY CONFLICTS DO NOT ALLOW FOR INSTALLATION OF STANDARD STRUCTURES. THE INSTALLATION OF THIS STRUCTURE MUST BE APPROVED BY THE DEPARTMENT.

MIAMI-DADE COUNTY DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS	REVISED 5/9/2018	APPROVED 5/9/2018	STANDARD STORM DRAINAGE DETAIL SWALE INLET (TYPE D-1)	SD 3.1	SHEET 1 OF 2
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Standard Detail	Width (ft)	Length (ft)	Height (ft)	Wall Thickness (in)	RECTANGULAR BOX		Bottom Slab Thickness (in)	Bottom Slab Steel	Bottom Slab Overhang
					Top Slab Thickness (in)	Top Slab Steel			
3.1	1.42	2.25	0-5.0	6"	#4@10"H	N/A	6"	#4@12" E.W.	6"
3.1	1.42	2.25	5.1-10.0	6"	#4@10"H	N/A	6"	#4@12" E.W.	N/A
3.1	1.42	2.25	10.1-15.0	6"	#4@10"H	N/A	8"	#4@12" E.W.	N/A

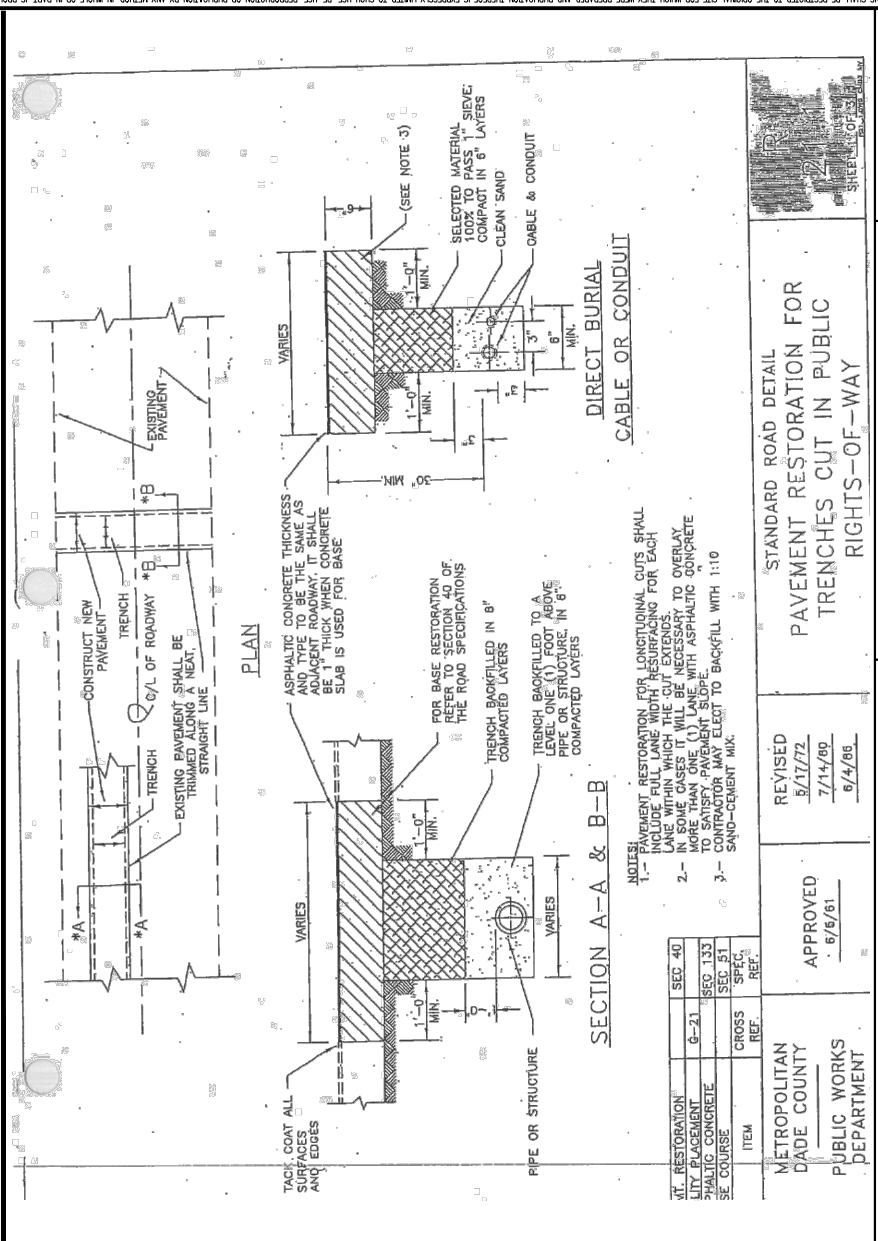
MIAMI-DADE COUNTY DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS	REVISED 5/9/2018	APPROVED 5/9/2018	STANDARD STORM DRAINAGE DETAIL SWALE INLET (TYPE D-1)	SD 3.1	SHEET 2 OF 2
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**NOTE:**

1. Install a gasket for the cleanout with either a threaded screw-in lid or a lid secured by four stainless steel quick-release latches.

**BAFFLE DETAIL (FDOT INDEX 443-002) N.T.S.**



**TABLE OF SIDEWALK JOINTS**

TYPE	LOCATION
'A'	P.C. AND P.T. OF CURVES, JUNCTION OF EXISTING AND NEW SIDEWALKS.
'B'	5'-0" CENTER TO CENTER ON SIDEWALKS
'C'	* WHERE SIDEWALK ABUTS CONCRETE CURBS, DRIVEWAYS AND SIMILAR STRUCTURES

\* WITH 6"x6"-#10 GALVANIZED MESH

**TABLE OF SIDEWALK THICKNESS 'T'**

LOCATION	"T"
RESIDENTIAL AREAS	6"
AT DRIVEWAYS AND OTHER AREAS	6"

EXPANSION JOINTS SHALL BE (WHERE APPLICABLE):  
 AT EVERY 5' FOR 5' WIDE SIDEWALK,  
 AT EVERY 8' FOR 8' WIDE SIDEWALK,  
 AT EVERY 9'-4" FOR 10'-6" WIDE SIDEWALK

CONTROL/SAMED JOINTS SHALL BE (WHERE APPLICABLE):  
 AT EVERY 5' FOR 5' WIDE SIDEWALK,  
 AT EVERY 8' FOR 8' WIDE SIDEWALK,  
 AT EVERY 9'-4" FOR 10'-6" WIDE SIDEWALK

CONCRETE SIDEWALK JOINTS SHALL BE (WHERE APPLICABLE):  
 AT EVERY 5' FOR 5' WIDE SIDEWALK,  
 AT EVERY 8' FOR 8' WIDE SIDEWALK,  
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 AT EVERY 9'-4" FOR 10'-6" WIDE SIDEWALK

MIAMI-DADE COUNTY DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS	REVISED 5/17/72	APPROVED 6/6/81	STANDARD ROAD DETAIL PAVEMENT RESTORATION FOR TRENCHES CUT IN PUBLIC RIGHTS-OF-WAY	SD 2151	SHEET C-14
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**CUTLER BAY - ROADWAY & DRAINAGE IMPROVEMENTS AREA # 3**

CUTLER BAY TOWN HALL  
 10720 CARIBBEAN BOULEVARD  
 CUTLER BAY, FL 33189  
 PHONE: (305) 234-4262  
 FAX: (305) 234-4251

DESIGNED BY: C.B.	DATE: 12/6/2023
DRAWN BY: C.B.	DESCRIPTION
CHECKED BY: J.C.F.	
SEAL:	



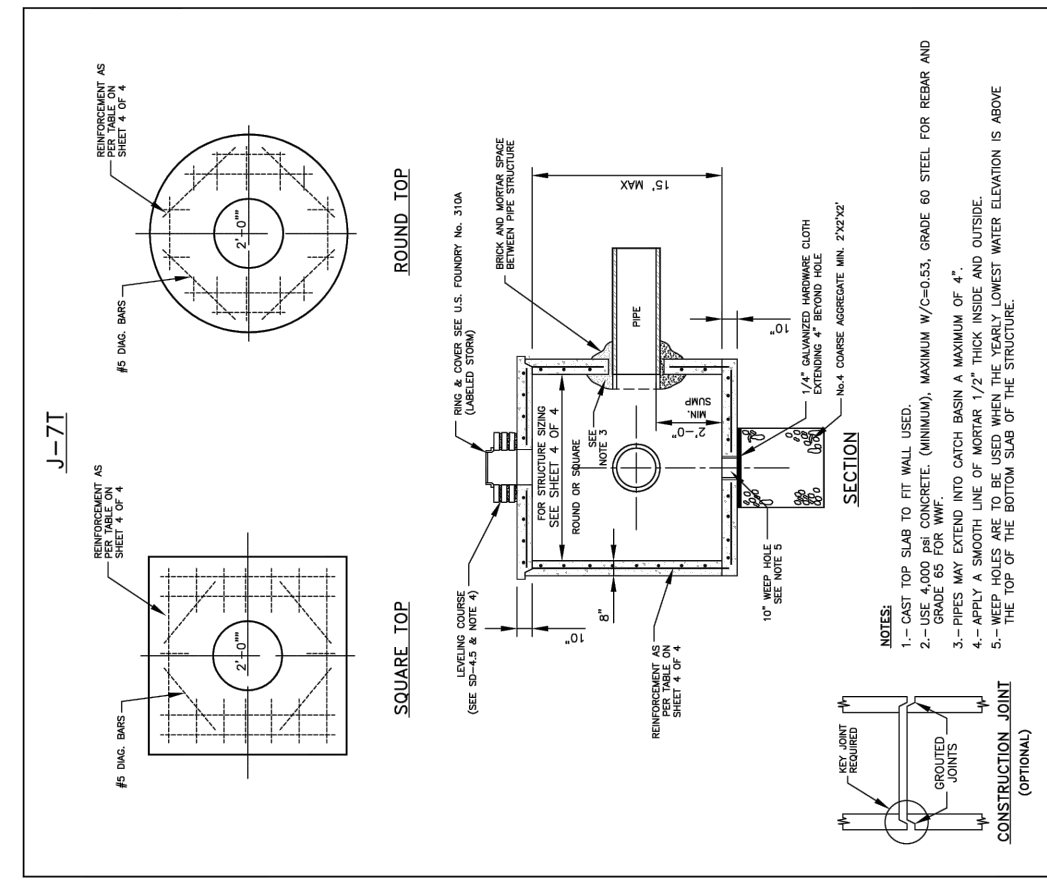
SQUARE STRUCTURE						
Standard Detail	Width (ft)	Length (ft)	Height (ft)	Wall Thickness (in)	Top Slab Thickness (in)	Bottom Slab Thickness (in)
2.2	3	3	0.0 - 5.0	#4@10"H #4@10"V	#4@5" E.W.	#4@10" E.W.
2.2	3	3	5.1 - 10.0	#4@7.5"H #4@10"V	#4@5" E.W.	#4@10" E.W.
2.2	3	3	10.1 - 15.0	#5@7.5"H #4@10"V	#4@5" E.W.	#4@10" E.W.

ROUND STRUCTURE						
Standard Detail	Dia. (ft)	Height (ft)	Wall Thickness (in)	Top Slab Thickness (in)	Bottom Slab Thickness (in)	
2.2	3	0.0 - 5.0	8 X 8 W20 #4@10"E.W.	#4@5" E.W.	#4@10" E.W.	
2.2	3	5.1 - 15.0	8 X 8 W20 #4@10"E.W.	#4@5" E.W.	#4@10" E.W.	

MIAMI-DADE COUNTY DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS	APPROVED 5/9/2018	REVISED 5/9/2018	STANDARD STORM DRAINAGE DETAIL PRECAST CATH BASIN (TYPE D-3)	SD 2.2
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SHEET 2 OF 2



MIAMI-DADE COUNTY DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS	APPROVED 5/9/2018	REVISED 5/9/2018	STANDARD STORM DRAINAGE DETAIL MANHOLE AND INLET (TYPE J)	SD 2.6
---	-------------------	------------------	---	--------

SHEET 1 OF 4

SQUARE STRUCTURE						
Standard Detail	Width (ft)	Length (ft)	Height (ft)	Wall Thickness (in)	Top Slab Thickness (in)	Bottom Slab Thickness (in)
2.6	8	8	0.0 - 5.0	#4@7"H #4@10"V	#6@6" E.W.	#5@8.5" E.W.
2.6	8	8	5.1 - 10.0	#6@7.5"H #4@10"V	#6@6" E.W.	#5@8.5" E.W.
2.6	8	8	10.1 - 15.0	#7@7"H #4@10"V	#6@6" E.W.	#5@8.5" E.W.

ROUND STRUCTURE						
Standard Detail	Dia. (ft)	Height (ft)	Wall Thickness (in)	Top Slab Thickness (in)	Bottom Slab Thickness (in)	
2.6	5	0.0 - 5.0	8	8 X 8 W20 OT #4@10"E.W.	#5@8.5" E.W.	
2.6	5	5.1 - 10.0	8	8 X 8 W20 OT #4@10"E.W.	#5@8.5" E.W.	
2.6	5	10.1 - 15.0	8	8 X 8 W20 OT #4@10"E.W.	#5@8.5" E.W.	

MIAMI-DADE COUNTY DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS	APPROVED 5/9/2018	REVISED 5/9/2018	STANDARD STORM DRAINAGE DETAIL MANHOLE AND INLET (TYPE J)	SD 2.6
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SHEET 4 OF 4

REV.	DATE	BY:	DESCRIPTION

DESIGNED BY: C.B.  
DRAWN BY: C.B.  
CHECKED BY: J.C.F.  
DATE: 12/6/2023

5001 Southwest 74<sup>th</sup> Court, Suite 201  
Miami, Florida 33155-4453  
TEL: 305-662-8887 FAX: 305-662-8858  
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CUTLER BAY TOWN HALL  
10720 CARIBBEAN BOULEVARD  
CUTLER BAY, FL 33189  
PHONE: (305) 234-4262  
FAX: (305) 234-4251

SCALE: AS SHOWN  
PROJECT NO.: 2151  
DWG. NO.:  
SHEET: C-16

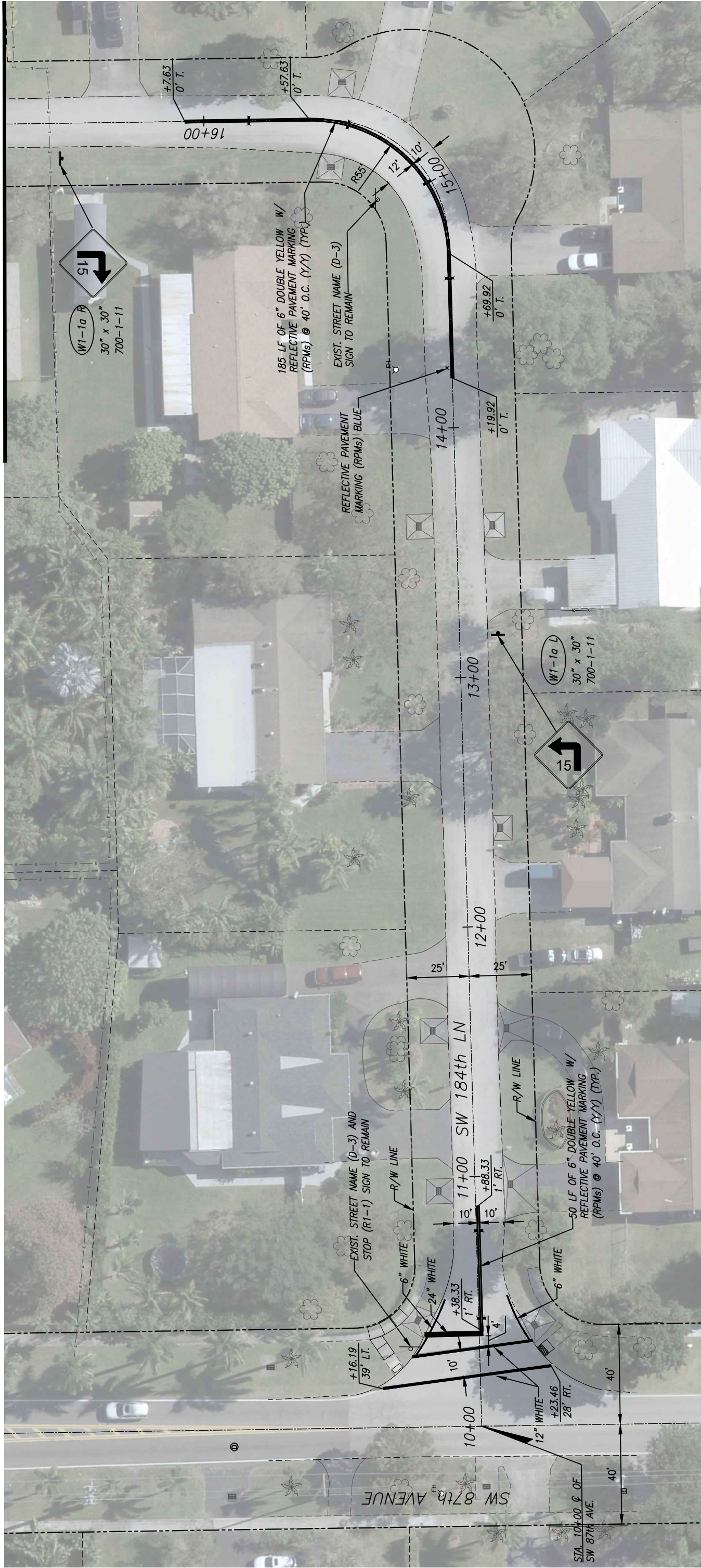








MATCH LINE STA. 16+80 (FOR CONTINUATION SEE SHEET C-19)



	DESIGNED BY: C.B.	SEAL:			
	DRAWN BY: C.B.				
	CHECKED BY: J.C.F.				
	DATE: 12/6/2023				
REV.	DATE	BY:	DESCRIPTION		

**SRS**  
ENGINEERING, INC.  
CONSULTING ENGINEERS

5001 Southwest 7th Court, Suite 201  
Miami, Florida 33152-4453  
TEL: 305-662-8887 FAX: 305-662-8858  
WWW.SRS-CON.COM

**Cutler Bay**  
FLORIDA  
INTEGRITY. EXPERTISE. PASSION.

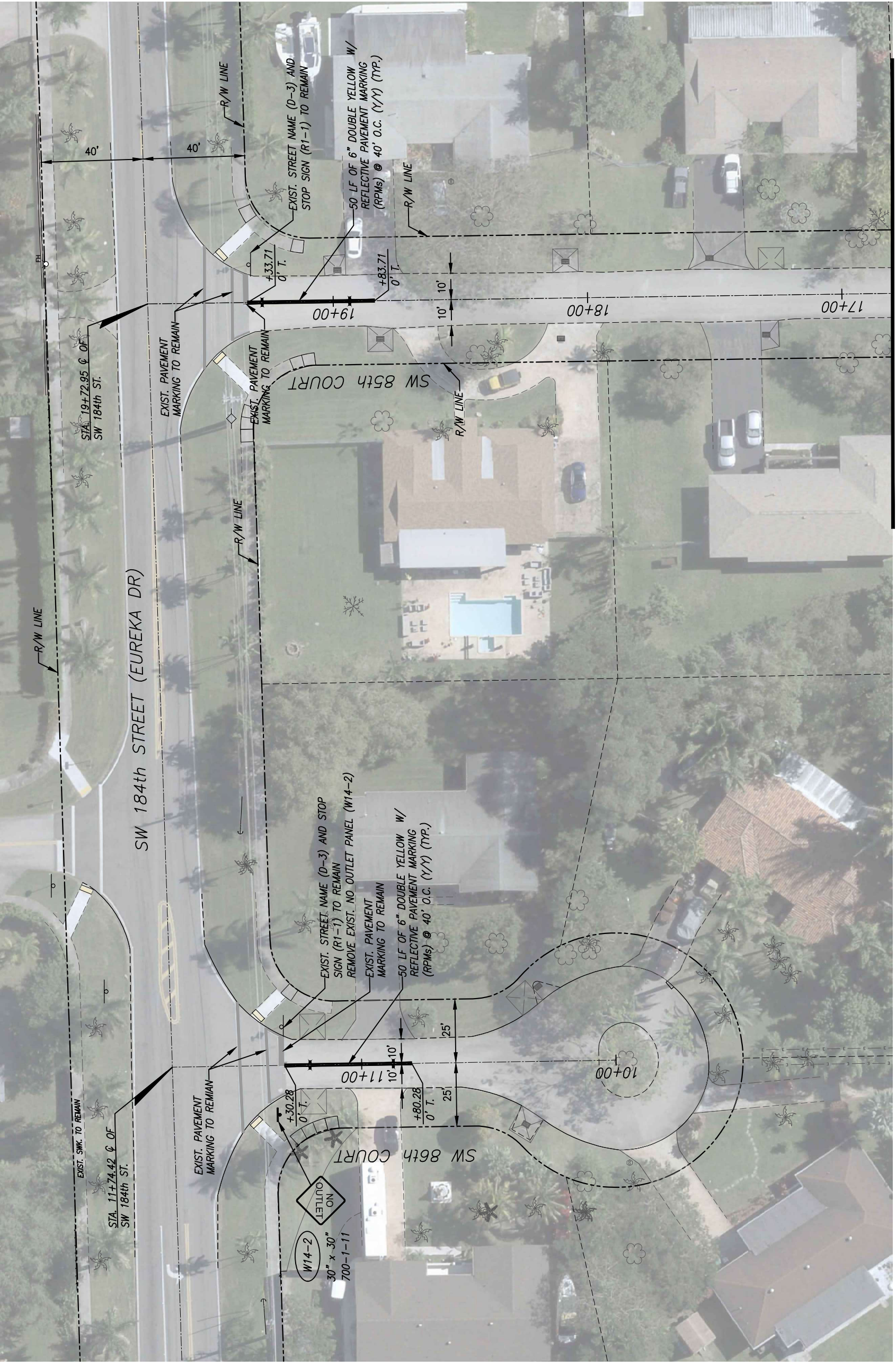
CUTLER BAY  
TOWN HALL  
10720 CARIBBEAN  
BOULEVARD  
CUTLER BAY, FL 33189  
PHONE: (305) 234-4262  
FAX: (305) 234-4251

**CUTLER BAY - ROADWAY & DRAINAGE IMPROVEMENTS AREA # 3**

PAVEMENT MARKING AND SIGNAGE PLANS

SCALE: AS SHOWN  
PROJECT NO.: 2151  
DWG. NO.:  
SHEET: C-18





MATCH LINE STA. 16+80 (FOR CONTINUATION SEE SHEET C-18)



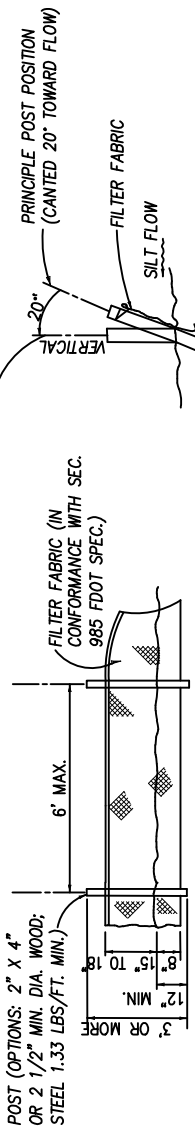
REV.	DATE	BY:	DESCRIPTION
DESIGNED BY: C.B. DRAWN BY: C.B. CHECKED BY: J.C.F. DATE: 12/6/2023			
SEAL:			
 SRS ENGINEERING, INC. CONSULTING ENGINEERS 5001 Southwest 7th Court, Suite 201 Miami, Florida 33152-4453 TEL: 305-662-8887 FAX: 305-662-8858 WWW.SRS-CON.COM			
 CUTLER BAY TOWN HALL 10720 CARIBBEAN BOULEVARD CUTLER BAY, FL 33189 PHONE: (305) 234-4262 FAX: (305) 234-4251			
<b>CUTLER BAY - ROADWAY &amp; DRAINAGE IMPROVEMENTS AREA # 3</b>			
<b>PAVEMENT MARKING AND SIGNAGE PLANS</b>			
SCALE: AS SHOWN		PROJECT NO.: 2151	
DWG. NO.:		SHEET: C-19	

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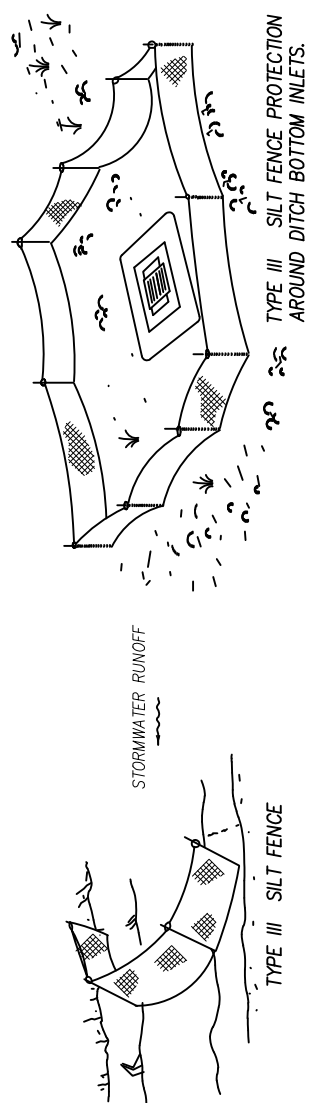
NOTES FOR SYNTHETIC BALES OR BALE TYPE BARRIERS

1. TYPE I AND II SYNTHETIC BARRIER SHOULD BE SPACED IN ACCORDANCE WITH CHART 1, SHEET 1 PER INDEX 102.
2. BALES SHALL BE ANCHORED WITH 2-1" X 2" (OR 1" DIA.) X 4' WOOD STAKES. STAKES OF OTHER MATERIAL OR SHAPE PROVIDING EQUIVALENT STRENGTH MAY BE USED IF APPROVED BY THE ENGINEER. STAKES OTHER THAN WOOD SHALL BE REMOVED UPON COMPLETION OF THE PROJECT.
3. RAILS AND POSTS SHALL BE 2" X 4" WOOD. OTHER MATERIALS PROVIDING EQUIVALENT STRENGTH MAY BE USED IF APPROVED BY THE ENGINEER.
4. ADJACENT BALES SHALL BE BUTTED FIRMLY TOGETHER.
5. WHERE USED IN CONJUNCTION WITH SILT FENCE, BALES SHALL BE PLACED ON THE UPSTREAM SIDE OF THE FENCE.



SILT FENCE DETAIL

N.T.S.

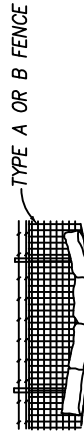


NOTES:

1. SPACING FOR TYPE III FENCE TO BE IN ACCORDANCE WITH CHART I, SHEET 1 OF 3 AND DITCH INSTALLATIONS AT DRAINAGE STRUCTURES SHEET 2 OF 3 PER FDOT STANDARD INDEX 102.
2. DO NOT DEPLOY IN A MANNER THAT SILT FENCES WILL ACT AS A DAM ACROSS PERMANENT FLOWING WATERCOURSES. SILT FENCES ARE TO BE USED AT UPLAND LOCATIONS AND TURBIDITY BARRIERS USED AT PERMANENT BODIES OF WATER.

SILT FENCE APPLICATIONS

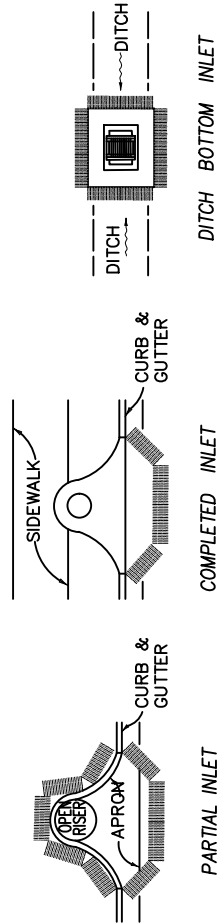
N.T.S.



LOOSE SOIL PACKED BY SHOVEL AND LIGHTLY COMPACTED ALONG UPSTREAM FACE OF BALES.

BALES BACKED BY FENCE

N.T.S.



PROTECTION AROUND INLETS OR SIMILAR STRUCTURES

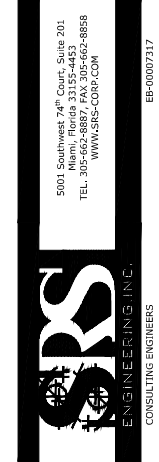
N.T.S.

STORM WATER POLLUTION PREVENTION PRACTICES:

1. TREE PROTECTION AND PRUNING SHALL BE ACCOMPLISHED AS DETAILED IN SPECIAL PROVISIONS, THE CONSTRUCTION PLANS, AND OR PER TREE ORDINANCE 12636.
2. THE STORM WATER POLLUTION PREVENTION PLAN, SWPPP, SUBMITTED TO PUBLIC WORKS, SHALL DESCRIBE IN DETAIL HOW THE CONSTRUCTION EFFORT WILL BE PHASED WITH REGARDS TO MINIMIZING EROSION PROBLEMS BY THE USE OF TEMPORARY AND PERMANENT EROSION CONTROL MEASURES, FOR THE VARIOUS SEQUENCES OF CONSTRUCTION OPERATIONS. ANY MODIFICATIONS MUST BE APPROVED BY THE TOWN OF CUTLER BAY - NPDES SECTION, DEPARTMENT OF PUBLIC WORKS.
3. ENVIRONMENTAL CONTROL FEATURES AS PROVIDED IN THE SWPPP, ARE TO BE INSTALLED AT ALL AREAS OF EXCAVATION OR FILL FOR DRAINAGE SYSTEM, OR STRUCTURE CONSTRUCTION PRIOR TO SUCH EXCAVATION OR FILL. INLET ENTRANCES ARE ALSO TO BE PROTECTED FROM SILTATION
4. ALL ENVIRONMENTAL CONTROL FEATURES ARE TO BE MAINTAINED THROUGHOUT THE LIFE OF THE PROJECT IN ACCORDANCE WITH N.P.D.E.S. REQUIREMENTS. THE CONTRACTOR MUST INSURE THAT ALL EROSION CONTROL FEATURES FUNCTION PROPERLY AT ALL TIMES.
5. ALL EROSION AND MATERIAL DEPOSITS MUST BE CONTAINED WITHIN THE PROJECT LIMITS.
6. ANY DAMAGED OR INEFFECTIVE ROCK BAGS ARE TO BE REPLACED WITH NEW ONES. THE LOCATION OF ROCK BAGS INSTALLATION IS AS MENTIONED IN THE SWPPP PLANS. THE PROJECT ENGINEER MAY SPECIFY OTHER AREAS AS NECESSARY.
7. DITCH BOTTOM INLETS SHALL BE PROTECTED FROM SEDIMENT INTAKE UNTIL PROJECT IS COMPLETE. ELEVATION OF GROUND OUTSIDE INLET TOP SHALL NOT BE HIGHER THAN INLET TOP. ROCK BAGS SHALL BE INSTALLED AROUND INLET TOP. COMPLETED INLETS IN PAVED AREAS SHALL ALSO BE PROTECTED WITH ROCK BAGS TO PREVENT SEDIMENT INTAKE.
8. CURB INLETS ALSO SHALL BE PROTECTED FROM SEDIMENT INTAKE UNTIL THE PROJECT IS COMPLETE. ALL EXPOSED SLOPED MATERIAL ADJACENT TO INLET, SHALL BE COVERED WITH EROSION CONTROL MATTING WITH OUTER LIMITS PROTECTED BY ROCK BAGS.
9. STOCKPILED MATERIAL SHALL NOT BE LEFT IN EROSION PRONE AREAS UNLESS PROTECTED BY COVER OR ROCK BAGS.
10. INSPECTION OF EROSION CONTROL MEASURES AND CONDITION OF ADJACENT PROPERTIES, SHALL BE PERFORMED DAILY BY THE CONTRACTOR'S REPRESENTATIVE AND THE PROJECT ENGINEER. DEFICIENCIES SHALL BE NOTED AND CORRECTED.
11. ANY OFFSITE SEDIMENT DISCHARGE TO A MUNICIPAL SEPARATE STORM WATER SYSTEM ARISING FROM THE CONTRACTOR'S ACTIVITIES IS NOT ALLOWED.
12. THE USE OF SANITARY SEWERS, FRENCH DRAINS, COVER DITCHES AND/OR ROCK DRAINS FOR THE DISPOSAL OF WASTEWATER IS EXPRESSLY PROHIBITED.

STORM WATER POLLUTION PREVENTION PLAN (SWPPP) CHECKLIST

- A. SEQUENCE OF SOIL DISTURBING ACTIVITIES AND IMPLEMENTATION OF CONTROLS:
1. CLEAR & GRUBBING
  2. INSTALL DRAINAGE STRUCTURES
  3. STABILIZATION
  4. BASE PREPARATION
  5. ASPHALT APPLICATION
  6. PLACEMENT OF ROCK BAGS AROUND INLETS
  7. APPLICATION OF ROCK BAGS AROUND MANHOLES
  8. APPLICATION OF FRICTION COURSE A.C.
  9. INSTALLATION OF STREET SIGNING
  10. PAVEMENT MARKING
  11. REMOVE ROCK BAGS
  12. CLEAN ALL CONSTRUCTION DEBRIS FROM CONSTRUCTION SITE
- B. GENERAL
1. APPROVED STATE, LOCAL PLANS OR STORM WATER PERMITS.
  2. ALL OF THE CONTROLS SHALL BE MAINTAINED AT ALL TIMES.
  3. ALL CONTROLS SHALL BE INSPECTED DAILY.
  4. APPLY FERTILIZERS AND PESTICIDES ACCORDING TO STANDARD SPECIFICATIONS, DESIGN AND SPECIAL PROVISIONS.
  5. REPORT NON-STORM WATER DISCHARGE (INCLUDING SPILL) 305) 416-1200.
  6. VISIT WWW.DEP.STATE.FL.US/WATER/STORMWATER/NPDES/



SEAL:

DESIGNED BY: C.B.  
DRAWN BY: C.B.  
CHECKED BY: J.C.F.  
DATE: 12/6/2023

REV. DATE BY: DESCRIPTION

CUTLER BAY  
TOWN HALL  
10720 CARIBBEAN  
BOULEVARD  
CUTLER BAY, FL 33189  
PHONE: (305) 234-4262  
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CUTLER BAY - ROADWAY &  
DRAINAGE IMPROVEMENTS  
AREA # 3

STORMWATER POLLUTION  
PREVENTION PLAN  
NOTES & DETAILS

SCALE: AS SHOWN  
PROJECT NO.: 2151  
DWG. NO.:  
SHEET: C-20







GENERAL NOTES:

- 1 EXISTING TOPOGRAPHIC AND TREE LOCATION INFORMATION HAS BEEN OBTAINED FROM THE SURVEY PREPARED BY: HADONNE LAND SURVEYORS AND MAPPERS ON 12/20/2022.
- 2 ALL ELEVATIONS REFER TO THE NATIONAL GEODETIC VERTICAL DATUM OF 1929 (NGVD--29).
- 3 FLOOD CRITERIA ELEVATION ARE 13.56', 11.56' AND 12.56' FOR BASIN 1, 2 AND 3 BASED ON MIAMI DADE COUNTY FLOOD CRITERIA MAPS. OCTOBER WATER LEVEL 2.30
- 4 IN ACCORDANCE WITH THE MIAMI DADE COUNTY "FLOOD ZONES", THIS PROJECT IS LOCATED IN FLOOD ZONE "X".  
https://mdc.mops.arcgis.com/apps/webappviewer/index.html?id=685a1c5e03c947d9a786df7b4ddb79d3
- 5 ALL PUBLIC LAND CORNERS AND MONUMENTS WITHIN THE LIMITS OF CONSTRUCTION ARE TO BE PROTECTED BY THE CONTRACTOR AS FOLLOWS: CORNERS AND MONUMENTS IN CONFLICT WITH THE WORK AND IN DANGER OF BEING DAMAGED, DESTROYED OR COVERED HAVE TO BE PROPERLY REFERENCED BY A PROFESSIONAL LAND SURVEYOR IN ACCORDANCE WITH THE MINIMUM TECHNICAL STANDARDS OF THE FLORIDA BOARD OF PROFESSIONAL LAND SURVEYORS PRIOR TO BEGINNING WORK AT THAT SITE. THE CONTRACTOR SHALL RETAIN THE LAND SURVEYOR OF REFERENCE, AND RESTORE UPON COMPLETION OF THE WORK, ALL SUCH CORNERS AND MONUMENTS AND SHALL FURNISH TO THE ENGINEER A SIGNED AND SEALED COPY OF THE LAND SURVEYOR'S REFERENCE DRAWING.
- 6 ALL BENCH MARK MONUMENTS WITHIN THE LIMITS OF CONSTRUCTION SHALL BE PROTECTED AND REFERENCED BY THE CONTRACTOR IN THE SAME WAY AS PUBLIC LAND CORNERS EXCEPT THAT THE LAND SURVEYOR SHALL NOT BE REQUIRED TO RESTORE THE BENCH MARK UPON COMPLETION OF THE WORK. THE CONTRACTOR SHALL PROMPTLY TRANSMIT ALL DISPLACED OR DAMAGED N.G.V.D. DISCS TO THE ENGINEER, WHO WILL NOTIFY THE GEODETIC INFORMATION CENTER.
- 7 ALL CONSTRUCTION ASSOCIATED WITH THIS PROJECT SHALL BE IN ACCORDANCE WITH APPLICABLE CODES & AUTHORITIES HAVING JURISDICTION, INCLUDING BUT NOT LIMITED TO THE TOWN OF CUTLER BAY PUBLIC WORKS DEPARTMENT, MIAMI-DADE DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS DEPARTMENT STANDARDS, THE FLORIDA DEPARTMENT OF TRANSPORTATION (FDOT), MIAMI-DADE COUNTY'S REGULATORY AND ECONOMIC RESOURCES (RER). ANY DISCREPANCY MUST BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE TOWN OF CUTLER BAY AND ENGINEER OF RECORD (EOR).
- 8 CONTRACTOR WILL SECURE AND PAY ALL PERMIT FEES FOR THE WORK NECESSARY TO COMPLETE THIS PROJECT. CONTRACTOR SHALL COORDINATE EFFORTS WITHIN THE CITY'S PUBLIC WORKS DEPARTMENT.
- 9 CONTRACTOR SHALL USE A STREET SWEEPER (USING WATER OR OTHER EQUIPMENT) FOR CONTROLLING AND REMOVING DUST. APPROVAL OF THE USE OF SUCH EQUIPMENT IS CONTINGENT UPON ITS DEMONSTRATED ABILITY TO DO THE WORK. CLEANING AND SWEEPING IS TO BE INCLUDED IN CONTRACTOR'S M.O.T. OR TRAFFIC PAY ITEM AND SHALL BE DONE ON A DAILY BASIS (MIN).
- 10 PERMANENT TURNOUTS AND DRIVEWAYS CONNECTIONS TO PRIVATE PROPERTY THAT LIE OUTSIDE THE LIMITS OF RIGHT-OF-WAY AND WHERE ACCESS RIGHTS HAVE NOT BEEN ACQUIRED SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE TURNOUT DETAILS AND STANDARD SPECIFICATIONS FOR THESE PLANS. THE CONTRACTOR SHALL NOT ISOLATE ADJACENT AND/OR THE REMAINDER OF THE PROPERTY UNLESS ACCESS RIGHTS ARE ACQUIRED. ACCESS SHALL BE PROVIDED TO SUCH PROPERTY WHENEVER CONSTRUCTION INTERFERES WITH THE EXISTING MEANS OF ACCESS.
- 11 48 HOURS PRIOR TO DIGGING CONTRACTOR SHALL COORDINATE WITH ALL UNDERGROUND UTILITY SERVICE COMPANIES TO VERIFY LOCATION OF ALL UNDERGROUND UTILITIES, ADDITIONALLY, CONTRACTOR SHALL CONTACT SUNSHINE STATE ONE CALL OF FLORIDA, INC. (811) TO ASSURE THAT ALL UTILITIES HAVE BEEN IDENTIFIED.
- 12 CONTRACTOR SHALL VERIFY, PHOTOGRAPH AND INVENTORY THE EXACT LOCATION OF ALL EXISTING TREES, STRUCTURES, PAVEMENT OR OTHER FEATURES. ANY EXISTING STRUCTURE, PAVEMENT, TREE OR OTHER EXISTING FEATURE THAT IS IN CONFLICT OR DAMAGED, EXPOSED OR IN ANY WAY DISTURBED BY CONSTRUCTION PERFORMED UNDER THE CONTRACT AND PROVIDE COPIES TO THE TOWN OF CUTLER BAY AND THE ENGINEER. THEY SHALL BE RESTORED PROMPTLY TO ITS ORIGINAL CONDITION AT NO ADDITIONAL COST TO THE PROJECT.
- 13 THE LOCATION AND SIZE OF THE UTILITIES SHOWN IN THE PLANS ARE APPROXIMATE ONLY. THE EXACT LOCATION SHALL BE DETERMINED BY THE CONTRACTOR DURING CONSTRUCTION. ADDITIONAL UTILITIES MAY EXIST WHICH ARE NOT SHOWN ON PLANS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE LOCATION OF ALL EXISTING UTILITIES. THE CONTRACTOR SHALL VERIFY ALL UTILITIES BY ELECTRONIC METHODS AND BY HAND EXCAVATION IN COORDINATION WITH ALL UTILITY COMPANIES, PRIOR TO BEGINNING ANY CONSTRUCTION OPERATION, ANY AND ALL CONFLICTS OF EXISTING UTILITIES WITH PROPOSED IMPROVEMENTS MUST BE RESOLVED BY THE ARCHITECT/ENGINEER AND THE OWNER. THIS WORK BY THE CONTRACTOR SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT AND NO ADDITIONAL COMPENSATION SHALL BE ALLOWED.
- 14 THE CONTRACTOR SHALL NOTIFY THE CITY IN WRITING AT LEAST 48 HOURS PRIOR TO THE COMMENCEMENT OF CONSTRUCTION.
- 15 UNDERGROUND UTILITY INFORMATION SHOWN HEREON WAS TAKEN FROM "AS-BUILT" DATA PROVIDED BY THE VARIOUS UTILITY COMPANIES AND SUPPLEMENTED BY FIELD MEASUREMENTS WHEN OBTAINABLE.

- 16 CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING A PROPER STAGING AREA APPROVED BY THE TOWN OF CUTLER BAY. STOCKPILING OF MATERIAL IN ROADWAY IS NOT ALLOWED.
- 17 UTILITIES NEEDED TO BE ADJUSTED WILL BE ADJUSTED BY OTHERS. CONTRACTOR WILL BE RESPONSIBLE FOR SCHEDULING THESE ADJUSTMENTS WITH THE UTILITY COMPANY.
- 18 THE CONTRACTOR SHALL REQUEST THE LOCATION OF ANY WATER, SEWER OR GAS LATERALS NOT SHOWN IN THE PLANS SERVICING PROPERTIES ADJACENT TO THE PROJECT BEFORE EXCAVATING. THE ADDITIONAL COST OF EXCAVATING AROUND THE LATERALS SERVICING SAID PROPERTIES SHALL BE INCLUDED IN HIS BID.
- 19 THE CONTRACTOR IS TO USE CAUTION WHEN WORKING, SPECIALLY IN OR AROUND AREAS OF OVERHEAD TRANSMISSION LINES AND UNDERGROUND UTILITIES.
- 20 ANY WATER AND SEWER LINES TO BE ADJUSTED SHALL BE APPROVED BY THE MIAMI-DADE DEPARTMENT OF WATER AND SEWER. THE CONTRACTOR SHALL NOTIFY THE TOWN OF CUTLER BAY FOR ANY CONFLICTS DURING CONSTRUCTION FOR ANY IMPROVEMENTS SHOWN ON THE DRAWINGS
- 21 ALL EXISTING ROCK BASE MATERIAL WHICH IS REMOVED IS TO BE INCORPORATED IN THE STABILIZED PORTION OF THE SUBGRADE, AS DIRECTED BY THE ENGINEER.
- 22 NONE OF THE EXISTING ROCK BASE THAT IS REMOVED IS TO BE INCORPORATED INTO THE PROPOSED LIMEROCK BASE
- 23 ALL DISPOSAL OF EXCESS AND UNSUITABLE EXCAVATED MATERIAL, DEMOLITION, VEGETATION, RUBBISH AND DEBRIS SHALL BE MADE OUTSIDE THE LIMITS OF CONSTRUCTION AT A LEGAL DISPOSAL SITE PROVIDED BY THE CONTRACTOR AT HIS/HER OWN EXPENSE, WITH THE PRIOR APPROVAL OF THE ENGINEER. MATERIAL CLEARED FROM THE SITE SHALL NOT BE DEPOSITED ON ADJACENT AND/OR NEARBY PROPERTY.
- 24 ALL EXCESS MATERIALS AS DESIGNATED BY THE ENGINEER ARE TO BE DISPOSED OF BY THE CONTRACTOR IN AREAS PROVIDED BY HIM AND AT THE CONTRACTOR'S EXPENSE.
- 25 ALL DRAINAGE CONSTRUCTION SHALL BE IN STRICT ACCORDANCE WITH THE REQUIREMENTS OF TOWN OF CUTLER BAY AND MIAMI-DADE COUNTY DEPARTMENT OF REGULATORY AND ECONOMIC RESOURCES (RER).
- 26 CONTRACTOR TO PROTECT EXISTING INLETS AND DRAINAGE COMPONENTS, ADJACENT TO CONSTRUCTION, THAT MAY BE SILTED OR EXPOSED TO DEBRIS, DURING CONSTRUCTION. INLETS AND OTHER DRAINAGE COMPONENTS THAT ARE SILTED OR FULL OF DEBRIS AFTER CONSTRUCTION TO BE DESILTED/CLEANED BY CONTRACTOR PRIOR TO FINAL INSPECTION AND ACCEPTANCE.
- 27 ALL GRASS AREAS AFFECTED BY CONSTRUCTION SHALL BE RESODDED.
- 28 ALL UNSUITABLE MATERIAL UNDER THE PAVEMENT SHALL BE REMOVED AND REPLACED WITH ACCEPTABLE MATERIALS BEFORE PROCEEDING WITH CONSTRUCTION.
- 29 ALL MUCK AND ORGANIC MATERIALS FOUND WITHIN THE CONSTRUCTION AREA SHALL BE REMOVED AND REPLACED WITH CLEAN FILL MATERIAL IN 6 INCH LIFTS COMPACTED TO NOT LESS THAN 95% MAXIMUM DENSITY AT OPTIMUM MOISTURE IN ACCORDANCE WITH AASHTO T-180.
- 30 THE CONTRACTOR SHOULD TAKE SPECIAL NOTE OF THE SOIL CONDITIONS THROUGHOUT THIS PROJECT. ANY SPECIAL SHORING, SHEETING OR OTHER PROCEDURES NECESSARY TO PROTECT ADJACENT PROPERTY, EITHER PUBLIC OR PRIVATE, DURING EXCAVATION OF SUBSOIL MATERIAL AND EXFILTRATION TRENCH OR DURING THE FILING OF ANY AREA, OR FOR ANY OPERATION DURING CONSTRUCTION SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR. THE ONLY EXCEPTION WILL BE THE PROTECTION OF UTILITIES. ALL UTILITIES SHALL BE MAINTAINED BY THE OWNER OF THE UTILITY.
- 31 ANY PUBLIC OR PRIVATE PROPERTY DAMAGED BY CONTRACTOR AT ANY TIME DURING CONSTRUCTION SHALL BE REPLACED OR REPAIRED TO ORIGINAL CONDITION, AT NO EXPENSE TO THE OWNER OR THE TOWN OF CUTLER BAY.
- 32 EXISTING CHAIN LINK FENCE, CONCRETE WALL AND METAL FENCE WITHIN THE LIMITS OF CONSTRUCTION SHALL BE PROTECTED UNLESS OTHERWISE INDICATED.
- 33 CONTRACTOR SHALL ADJUST ALL EXISTING VALVES BOXES, CATCH BASINS GRATES, MANHOLES COVERS, ETC. TO MEET NEW GRADES WHERE APPLICABLE.
- 34 ALL VALVES, A.R.V.'S, AND MANHOLES TO BE RAISED AND ADJUSTED TO PROPOSED ROADWAY ELEVATION.
- 35 SODDING TO BE USED AT LOCATIONS WHERE EXISTING LAWNS ARE DISTURBED OR AS DIRECTED BY THE ENGINEER.
- 36 ALL TREES ARE TO REMAIN, UNLESS OTHERWISE DIRECTED BY THE ENGINEER. CONTRACTOR MUST TAKE CARE NOT TO DAMAGE ANY TREE OR PALM WITHIN CONSTRUCTION AREA. SMALL TREES OR PALMS MAY BE RELOCATED AS DIRECTED BY THE TOWN OF CUTLER BAY. TREE PERMIT MUST BE OBTAINED PRIOR TO CONSTRUCTION. THERE ARE LARGE TREES WITH EXTENSIVE ROOT NETWORKS ON THE GROUND THAT ARE IMPACTING ADJACENT SIDEWALKS, CURBS AND PAVEMENT. THE CONTRACTOR SHALL BE REQUIRED TO COORDINATE WITH AN ARBORIST TO ENSURE THAT ROOT AND TREE PRUNING ACTIVITIES ARE CONDUCTED IN A MANNER THAT IT DOES NOT HARM OR DESTROY THE TREE.
- 37 RADI ON CURB RETURNS ARE TO THE EDGE OF PAVEMENT UNLESS OTHERWISE NOTED.

- 38 PROVIDE A SMOOTH TRANSITION WHERE NEW PAVEMENT, SIDEWALK, OR CURB MEETS EXISTING GRASS AREAS.
- 39 PRIOR TO REMOVAL AND/OR RELOCATION OF EXISTING TREES, IF REQUIRED, THE CONTRACTOR MUST OBTAIN APPROVAL FROM THE TOWN OF CUTLER BAY AS WELL AS D.E.R.M. OTHERWISE CONTRACTOR SHALL PROTECT EXISTING TREES WHERE APPLICABLE WITHIN THE LIMITS OF CONSTRUCTION
- 40 WHERE NEW PAVEMENT MEETS EXISTING CONNECTION SHALL BE MADE IN A NEAT STRAIGHT LINE AND FLUSH WITH EXISTING PAVEMENT. SAW CUT AT EXISTING PAVEMENT JOINT MATCHING TO NEW PAVEMENT.
- 41 ANY DISCREPANCY FOUND BETWEEN THE PLANS AND THE QUANTITIES SHEET MUST BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE MUNICIPALITY/COUNTY AND ENGINEER OF RECORD (EOR). AN R.F.I. MUST BE PROVIDED AND SHOULD OUTLINE THE SPECIFIC ISSUE OR DISCREPANCY, PROVIDE SUPPORTING DOCUMENTATION OR EVIDENCE, AND SEEK CLARIFICATION OR APPROVAL BEFORE PROCEEDING WITH THE PROJECT/TASK.

DRAINAGE

- 1 CONTRACTOR SHALL KEEP NEW AND EXISTING INLETS CLEAN OF PAVING MATERIALS AND DEBRIS. INLETS LOCATED NEAR CONSTRUCTION ACTIVITIES SHOULD BE PROTECTED BY APPROPRIATE EROSION CONTROL DEVICES.
- 2 THERE SHALL BE NO MORE THAN 3 LATERAL DRAINAGE INSTALLATION WITHOUT BACKFILLING. LATERAL DRAINAGE SHALL NOT LAG MORE THAN 72 HOURS BEHIND THE START OF EXCAVATION.
- 3 GRADES SHOWN ARE "FINISHED" GRADES.
- 4 DRAINAGE SYSTEM SHALL BE CLEANED AND DESILTED PRIOR TO PW FINAL INSPECTION APPROVAL.
- 5 EXISTING STRUCTURES AND PIPES TO REMAIN WITHIN LIMITS OF CONSTRUCTION SHALL BE VACUUM CLEANED.
- 6 ANY EXISTING DRAINAGE COMPONENTS TO REMAIN THAT ARE DAMAGED AS A RESULT OF THE CONSTRUCTION ARE TO BE RESTORED TO EXISTING EQUIVALENT OR BETTER CONDITIONS AT THE CONTRACTOR'S EXPENSE.

PRE-CONSTRUCTION RESPONSIBILITIES

- 1 PRIOR TO THE COMMENCEMENT OF THE CONSTRUCTION AND THE RECEIPT OF THE "NOTICE TO PROCEED" THE CONTRACTOR SHALL CONTACT THE TOWN OF CUTLER BAY AND ARRANGE A PRE-CONSTRUCTION CONFERENCE TO INCLUDE THE ENGINEER OF RECORD. THE CONTRACTOR SHALL SUBMIT A CONSTRUCTION SCHEDULE AND BE PREPARED TO DISCUSS ANY CONCERNS OR COORDINATION EFFORTS AND REQUIREMENTS WITH THE PARTIES INVOLVED.
- 2 THE CONTRACTOR SHALL OBTAIN A SUNSHINE STATE ONE CALL OF FLORIDA, INC. CERTIFICATION NUMBER AT LEAST 48 HOURS PRIOR TO BEGINNING ANY EXCAVATION. CONTACT 811, WWW.SUNSHINE811.COM

PROJECT RECORD DOCUMENTS

- 1 DURING THE DAILY PROGRESS OF THE JOB THE CONTRACTOR SHALL RECORD THE EXACT LOCATION, LENGTH, AND ELEVATION OF ALL PROPOSED IMPROVEMENTS ON HIS SET OF CONSTRUCTION DRAWINGS.
- 2 UPON COMPLETION OF CONSTRUCTION AND PRIOR TO FINAL PAYMENT, THE CONTRACTOR SHALL SUBMIT TO THE ENGINEER TWO COMPLETE SETS OF ALL "AS-BUILT" CONSTRUCTION DRAWINGS, THE DRAWINGS SHALL INCLUDE CHANGES AND DIMENSIONS, LOCATIONS AND ELEVATIONS OF ALL IMPROVEMENTS AND SHALL BE IN ACCORDANCE WITH THE "SURVEY WORK" SECTION OF THE "SPECIFICATIONS AND CONTRACT DOCUMENTS" FOR THIS PROJECT.
- 3 ALL "AS-BUILT" INFORMATION AND ELEVATIONS SHALL BE CERTIFIED BY A FLORIDA REGISTERED LAND SURVEYOR AND ALL FINAL MEASUREMENTS ARE TO BE IN THE FORM OF FIELD NOTES, PLANS AND CD (PDF FORMAT).

DESIGNED BY:	G.B.		
DRAWN BY:	G.B.		
CHECKED BY:	J.C.F.		
DATE:	12/6/2023		
REV.	DATE	BY:	DESCRIPTION

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**CUTLER BAY - ROADWAY & DRAINAGE IMPROVEMENTS AREA # 4**

**GENERAL NOTES**

SCALE:	AS SHOWN
PROJECT NO.:	2151
DWG. NO.:	
SHEET:	C-3.0



UTILITIES

- 1 TWO FULL BUSINESS DAYS (48 HOURS) PRIOR TO DIGGING, THE CONTRACTOR SHALL CONTACT 811, WWW.SUNSHINE811.COM TO REQUEST UTILITY LOCATIONS BEFORE BEGINNING ANY CONSTRUCTION ACTIVITIES.
- 2 EXISTING UTILITIES SHALL BE MAINTAINED IN SERVICE DURING CONSTRUCTION UNLESS OTHERWISE APPROVED BY THE UTILITY OWNER. ALL EXISTING UTILITIES ARE TO REMAIN UNLESS OTHERWISE NOTED.
- 3 IT SHALL BE THE CONTRACTOR'S SOLE RESPONSIBILITY TO (VERTICALLY AND HORIZONTALLY) PROTECT ALL EXISTING UTILITIES ON THIS PROJECT. ANY DAMAGE TO UTILITIES SHALL BE IMMEDIATELY REPORTED TO THE UTILITY OWNER. THE OWNER RESERVES THE RIGHT TO REMEDY SUCH DAMAGE BY ORDERING OUTSIDE PARTIES TO MAKE SUCH REPAIRS AT THE EXPENSE TO THE CONTRACTOR.
- 4 THE CONTRACTOR IS ADVISED THAT PROPERTIES ADJACENT TO THE PROJECT HAVE ELECTRIC, TELEPHONE, GAS, WATER AND/OR SEWER SERVICE LATERALS WHICH MAY NOT BE SHOWN IN PLANS. THE CONTRACTOR MUST REQUEST THE LOCATION OF THESE LATERAL SERVICES FROM THE UTILITY COMPANIES. THE ADDITIONAL COST OF EXCAVATING, INSTALLING, BACKFILLING AND COMPACTING AROUND THESE LATERAL SERVICES MUST BE INCLUDED IN THE BID RELATED ITEM FOR THE WORK BEING DONE.
- 5 UTILITY OWNERS:  
 - ATLANTIC BROADBAND 786-251-5989 - FLORIDA POWER & LIGHT 386-586-6403  
 - COMCAST CABLE 954-447-8405 - LEVEL 3 COMMUNICATIONS 786-256-1554  
 - FLORIDA CITY GAS 786-575-8547 - M-D WATER & SEWER 786-288-5320  
 - PUBLIC WORKS & TRAFFIC 786-345-0986 - AT&T 561-997-0240

ENVIRONMENTAL NOTES

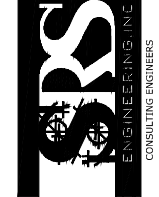
- 1 DUE TO THE LIMITED SCOPE OF WORK, NO IMPACTS TO EXISTING HISTORICAL AND CULTURAL RESOURCES ARE EXPECTED AS A RESULT OF THE PROPOSED ACTION.
- 2 NO STAGING OR OTHER ACTIVITIES FOR THIS PROJECT SHOULD OCCUR WITHIN THE DRIPLINE OF EXISTING TREES.
- 3 PREVENT DAMAGING TREES AND PLANTERS WITHIN OR IMMEDIATELY ADJACENT TO THE PROJECT'S RIGHT-OF-WAY.
- 4 AN ARBORIST CERTIFIED BY THE INTERNATIONAL SOCIETY OF ARBORICULTURE SHALL BE PRESENT ON SITE TO MONITOR CONSTRUCTION ACTIVITIES NEAR EXISTING TREES AND DIRECT ALL ROOT PRUNING AND/OR CANOPY TRIMMING ACTIVITIES.
- 5 TREE PROTECTION SHOULD BE INSTALLED AROUND TREES TO REMAIN LOCATED ADJACENT TO CONSTRUCTION ACTIVITIES PER FDOT STANDARDS PLANS FY 2023-24, INDEX 110-100
- 6 THE CONTRACTOR SHALL NOT REMOVE, RELOCATE OR PRUNE ANY TREES WITHOUT PRIOR APPROVAL FROM THE TOWN. THE CONTRACTOR SHALL OBTAIN ALL REQUIRED PERMITS FROM THE TOWN OF CUTLER BAY PUBLIC WORKS DEPARTMENT PRIOR TO ANY TREE REMOVAL/RELOCATION.
- 7 CONTRACTOR SHALL REMOVE/CONTROL DUST USING WATER OR OTHER EQUIPMENT CAPABLE OF CONTROLLING DUST.
- 8 THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING A DERM CLASS V DEWATERING PERMIT IF DEWATERING IS PROPOSED.

TRAFFIC CONTROL PLANS

- 1 TRAFFIC CONTROLS SHALL BE IN ACCORDANCE WITH THE PROJECT PLANS, THE CURRENT EDITION OF THE FDOT, STANDARDS PLANS FY 2023-24 (102 SERIES), THE STANDARD SPECIFICATION FOR ROAD AND BRIDGE CONSTRUCTION, AND 2009 (MUTCD) MANUAL OF UNIFORM CONTROL DEVICE FOR STREETS AND HIGHWAYS, EDITION WITH REVISION NUMBERS 1, 2, AND 3, DATED JULY 2022
- 2 NOTIFICATION OF LANE CLOSURES OR TEMPORARY DETOURS SHALL BE ACCOMPLISHED 14 WORKING DAYS PRIOR TO CLOSURE. DETOUR OR MOT PHASE CHANGE SHALL BE SUBMITTED WITH THE REQUIRED LANE CLOSURE FORM, SKETCHES, CALCULATIONS, AND OTHER DATA TO PUBLIC WORKS DEPT.
- 3 AT THE DISCRETION OF THE ENGINEER, IF A LANE CLOSURE CAUSES EXTENDED CONGESTION OR DELAY, THE CONTRACTOR SHALL BE DIRECTED TO REOPEN THE CLOSED LANE(S) UNTIL SUCH TIME THAT THE TRAFFIC FLOW HAS RETURNED TO AN ACCEPTABLE LEVEL.
- 4 THE TRAFFIC AND TRAVEL WAYS SHALL NOT BE ALTERED BY THE CONTRACTOR TO CREATE A WORK ZONE UNTIL ALL LABOR AND MATERIAL ARE AVAILABLE FOR THE CONSTRUCTION IN THAT AREA.
- 5 LANE CLOSURE SHALL OCCUR ONLY DURING NON-PEAK HOURS ON NON-EVENT DATES/NIGHTS/WEEKENDS. NON PEAK HOURS 9:00 AM TO 3:30 PM WEEKDAYS AND SATURDAYS. EXCEPTIONS MAY BE GRANTED UPON WRITTEN REQUEST TO THE CITY.
- 6 TRAFFIC CONTROL PLANS FOR ALL PHASES ARE DESIGNED FOR NON-PEAK HOURS ONLY. THE CONTRACTOR SHALL KEEP ALL EXISTING LANES OPEN DURING PEAK HOURS IN THESE PHASES.

DESIGNED BY:	G.B.
DRAWN BY:	G.B.
CHECKED BY:	J.C.F.
DATE:	12/6/2023

SEAL:



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 WWW.SRS-CONV.COM

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- 7 AS DETERMINED BY THE ENGINEER, THE CONTRACTOR SHALL COVER WORK ZONE SIGNS WHEN CONDITIONS NO LONGER WARRANT THEIR USE. COST OF COVERING AND UNCOVERING THE SIGNS SHALL BE INCLUDED IN MAINTENANCE OF TRAFFIC PAY ITEM.
- 8 CONTRACTOR SHALL BE RESPONSIBLE FOR THE IMMEDIATE REMOVAL OF STORM WATER FROM ROADWAYS UTILIZED FOR MAINTAINING TRAFFIC IN A MANNER APPROVED BY THE ENGINEER. COST FOR REMOVING THE WATER SHALL BE INCLUDED IN MAINTENANCE OF TRAFFIC PAY ITEM.
- 9 TEMPORARY LANE TRANSITIONS, SHIFTS, AND CROSSEVERS SHALL HAVE SOLID LANE AND EDGE LINES FOR THE LENGTH OF THE TRANSITION, SHIFT OR CROSSOVER. IN ADDITION, SOLID LANE AND EDGE LINES SHALL EXTEND 100 FT ON TANGENT BEYOND EACH END OF THE TRANSITION, SHIFT, OR CROSSOVER. EXCEPTION SHALL BE THROUGH INTERSECTIONS WHERE 2 FT TO 4 FT SKIP LINES WILL BE PLACED.
- 10 ALL TEMPORARY STRIPES AND MARKINGS SHALL BE PAINT ONLY, UNLESS OTHERWISE SPECIFIED ON THE PLANS OR APPROVED BY THE ENGINEER. COST OF TEMPORARY STRIPING SHALL BE INCLUDED IN MOT PAY ITEM.
- 11 EACH EXISTING STREET NAME AND STOP SIGN AFFECTED BY CONSTRUCTION SHALL BE RELOCATED AND MAINTAINED IN AN APPROPRIATE LOCATION FOR THE DURATION OF THE PROJECT. WHEN NO LONGER AFFECTED BY CONSTRUCTION, THESE SIGNS SHALL BE RESTORED TO THEIR ORIGINAL POSITION. COST OF TEMPORARILY RELOCATING AND RESTORING THE SIGNS SHALL BE INCLUDED IN MAINTENANCE OF TRAFFIC PAY ITEM.
- 12 FOR DROP OFFS, THE CONTRACTOR'S SHALL FOLLOW TO THE FDOT, STANDARDS PLANS FY 2023-24 INDEX NO. 102-600 SHEET 8 OF 11. THE CONTRACTOR SHALL USE SHOULDER TREATMENT DETAIL WHEN NO BARRIERS ARE REQUIRED IN THE PLANS
- 13 CONTRACTOR SHALL PREPARE AND SUBMIT AN ACCEPTABLE MOT PLAN FOR THE PROJECT. THE MOT PLAN SHALL BE SUBMITTED TO THE TOWN OF CUTLER BAY'S PUBLIC WORKS DEPARTMENT FOR REVIEW AND APPROVAL.
- 14 LANE CLOSURES SHALL NOT BE PERMITTED DURING SCHOOL SPEED ZONE HOURS WHERE SUCH CLOSURES WILL AFFECT TRAFFIC FLOW IN THE VICINITY OF THE SCHOOL SPEED ZONES.

WORK ZONE LIMITS

- 1 THE LENGTH OF AN OPEN TRENCH SHALL NOT EXCEED 500 FT. PROPERTY ACCESS SHALL BE MAINTAINED IN ACCORDANCE TO ARTICLE 102- 5.5 OF THE FDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION LATEST EDITION.
- 2 NO MORE THAN TWO BLOCKS OF STREET SHALL BE UNDER CONSTRUCTION AT A TIME AND ALL WORK AND RESTORATION SHALL BE COMPLETED ON ONE OF SUCH BLOCKS BEFORE WORK MAY BEGIN IN A NEW BLOCK. FINAL RESURFACING SHALL BE PLACED WITHIN 48 HOURS OF THE MILLING OPERATION.

INTERSECTIONS

- 1 ADJACENT INTERSECTIONS SHALL NOT BE CONSTRUCTED SIMULTANEOUSLY UNLESS DIRECTED BY THE ENGINEER
- 2 INTERSECTIONS SHALL BE RECONSTRUCTED WORKING ON A CONTINUOUS DAILY BASIS UNTIL COMPLETE AND UNTIL THE STRUCTURAL COURSE IS PLACED.
- 3 M.O.T. TRANSITIONS AND TEMPORARY INTERSECTION CROSSEVERS WHERE CONSTRUCTION HAS CAUSED GRADE DIFFERENCES BETWEEN THE EXISTING AND NEW ROADWAYS SHALL BE CONSTRUCTED USING A 1:20 TYPE SP ASPHALT CONCRETE SLOPE TO ACCOMMODATE VEHICULAR TRAFFIC FROM ANY DIRECTION. ALL MATERIAL AND WORK, INCLUDING ITS REMOVAL, SHALL BE INCLUDED IN MAINTENANCE OF TRAFFIC PAY ITEM.

PEDESTRIANS, BICYCLES, AND WHEELCHAIRS

- 1 AT THE END OF EACH WORK DAY OR WHENEVER THE WORK ZONE BECOMES INACTIVE, ANY DROP OFF GREATER THAN 6 IN. ADJACENT TO THE PEDESTRIAN, BICYCLE, AND WHEELCHAIR TRAVEL PATHS SHALL BE BACKFILLED FLUSH WITH THE SAID PATHS OR PROTECTED WITH TEMPORARY FENCE. CONCRETE BARRIER WALL OR APPROVED HANDRAIL. COST SHALL BE INCLUDED IN THE PAY ITEM 102-1, MAINTENANCE OF TRAFFIC.
- 2 CONSTRUCTION ACTIVITIES THAT INVOLVES SIDEWALKS ON BOTH SIDES OF THE STREET ARE NOT ALLOWED UNLESS APPROVED BY THE ENGINEER.

SIGNING AND PAVEMENT MARKINGS

- 1 ALL SIGNING AND PAVEMENT MARKINGS SHALL CONFORM WITH THE CURRENT EDITION OF THE FDOT, STANDARDS PLANS FY 2023-24, THE 2023 FDOT DESIGN MANUAL, AND 2009 (MUTCD) MANUAL OF UNIFORM CONTROL DEVICE FOR STREETS AND HIGHWAYS
- 2 ALL EXISTING SIGNS ARE TO REMAIN UNLESS OTHERWISE SPECIFIED. BEFORE STARTING THE PROJECT, THE CONTRACTOR WILL REVIEW EXISTING SIGNS SHOWN ON THE PLANS TO BE RELOCATED OR TO REMAIN. THE CONTRACTOR WILL NOTIFY IN WRITING TO THE PROJECT ENGINEER OF ANY MISSING SIGNS BEFORE CONSTRUCTION STARTS. SIGNS DAMAGED BY THE CONTRACTOR'S OPERATIONS WILL BE REPLACED AT NO COST TO THE DEPARTMENT. IF EXISTING SIGNS TO BE RELOCATED HAVE A DAMAGED POLE OR A POLE NOT MEETING HEIGHT SPECIFICATION REQUIREMENTS, THE COST OF A NEW POLE WILL BE INCLUDED IN THE RELOCATION BID ITEM.

- 3 ALL PAVEMENT MARKINGS, MESSAGES, AND ARROWS SHALL BE THERMOPLASTIC UNLESS OTHERWISE NOTED.
- 4 REFLECTIVE PAVEMENT MARKERS ARE TO BE PLACED AS INDICATED
- 5 MATCH EXISTING PAVEMENT MARKINGS AT THE BEGINNING AND AT THE END OF THE PROJECT AND AT ALL SIDE STREETS WITHOUT JOGS OR OFFSETS.
- 6 THE CONTRACTOR SHALL REMOVE EXISTING MARKINGS BY FDOT APPROVED METHOD WITHOUT DAMAGE TO THE FRICTION COURSE.
- 7 SIGN ASSEMBLY LOCATIONS SHOWN ON PLANS WHICH ARE IN CONFLICT WITH LIGHTING, UTILITIES, DRIVEWAYS, WHEELCHAIR RAMPS, ETC. MAY BE ADJUSTED SLIGHTLY AS DIRECTED BY THE ENGINEER. EXTREME LOCATION CHANGES MUST BE APPROVED BY MIAMI-DADE SIGNALS AND SIGNS DIVISION.
- 8 THE CONTRACTOR SHALL RELOCATE ALL EXISTING POST-MOUNTED STREET NAME AND STOP SIGNS TO A VISIBLE AREA UNDISTURBED BY THE CONSTRUCTION SO AS TO MINIMIZE DAMAGE TO THE SIGNS. NEW STREET NAME SIGNS WILL BE ATTACHED AT THE TOP OF THE NEW STOP SIGNS ON MINOR SIDE STREETS AT THE END OF CONSTRUCTION.
- 9 EXTRUDED ALUMINUM SIGN SUPPORT CLAMPS ARE NOT ACCEPTABLE. ALL RELOCATED SIGNS MUST COMPLY WITH THE FDOT, STANDARDS PLANS FY 2023-24, INDEX 700-010 AS IF THEY WERE NEW SIGNS. IF EXISTING CLAMPS, BRACKETS, POLES, ETC. NEED TO BE REPLACED THE COST SHALL BE INCLUDED IN THE RELOCATION PAY ITEM.
- 10 REFLECTIVE PAVEMENT MARKERS AS PER FDOT STANDARD INDEX NO 706-001
- 11 NEW STREET NAME SIGNS SHALL BE PER MIAMI DADE COUNTY STANDARDS AND MUTCD.

REV.	DATE	BY:	DESCRIPTION



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**CUTLER BAY - ROADWAY & DRAINAGE IMPROVEMENTS AREA # 4**

**GENERAL NOTES**

SCALE:	AS SHOWN
PROJECT NO.:	2151
DWG. NO.:	SHEET: C-3.1

**ABBREVIATIONS:**

BLDG.	=	BUILDING
C.B.	=	CATCH BASIN
℄	=	BASE LINE
℄	=	CENTER LINE
C.O.	=	CLEANOUT
CONC.	=	CONCRETE
CONN.	=	CONNECTION
CONT.	=	CONTINUATION
CONST.	=	CONSTRUCT
DET.	=	DETAIL
D.I.P.	=	DUCTILE IRON PIPE
EXIST.	=	EXISTING
F.F.E.	=	FINISHED FLOOR ELEVATION
F.H. / FH	=	FIRE HYDRANT
F.M. / FM	=	FORCE MAIN
H.D.P.E.	=	HIGH DENSITY POLYETHYLENE
HORIZ.	=	HORIZONTAL
INV.	=	INVERT
L.F.	=	LINEAR FEET
M-DWASD	=	MIAMI-DADE WATER AND SEWER DEPT.
M-DPW	=	MIAMI DADE PUBLIC WORKS
M.E.G.	=	MATCH EXISTING GRADE
MIN.	=	MINIMUM
P.I.V.	=	POST INDICATOR VALVE
P.G.P.	=	PROPOSED GRADING POINT
P.G.L.	=	PROPOSED GRADING LINE
P/L, ℄	=	PROPERTY LINE
PROP.	=	PROPOSED
SAN.	=	SANITARY SEWER
R/W, ROW	=	RIGHT OF WAY
SEC.	=	SECTION
SERV.	=	SERVICE
S/L, ℄	=	SECTION LINE
STA.	=	STATION
STD.	=	STANDARD
SWK.	=	SIDEWALK
T.O.P.	=	TOP OF PIPE
U.S.F.	=	US FOUNDRY
VERT.	=	VERTICAL
W.M. / WM	=	WATER MAIN
W.S.	=	WATER SERVICE
T.B.F.V.	=	TO BE FIELD VERIFIED

**UTILITIES LEGEND:**

— WM —	—	EXISTING WATER MAIN (UNDERGROUND)
— SAN —	—	EXISTING SANITARY SEWER MAIN (UNDERGROUND)
— FO —	—	EXISTING COMMUNICATION CONDUIT (UNDERGROUND)
— E —	—	EXISTING F.P.L. CONDUIT (UNDERGROUND)
— SS —	—	EXISTING SOLID DRAINAGE PIPE / SLAB COVER TRENCH (UNDERGROUND)
— [ —	—	EXISTING EXFILTRATION DRAIN (UNDERGROUND)
— OUL —	—	EXISTING F.P.L. CONDUIT (OVERHEAD)
— [ / ] —	—	PROPOSED EXFILTRATION DRAIN (UNDERGROUND)
— [ —	—	PROPOSED SOLID DRAINAGE PIPE (UNDERGROUND)
— (S-#) —	—	PROPOSED DRAINAGE STRUCTURE (INLET/M.H.) ID
— (EX-#) —	—	EXISTING DRAINAGE STRUCTURE (INLET) ID
— FM —	—	EXISTING FORCE MAIN (UNDERGROUND)
[ ]	—	EXISTING CATCH BASIN
[ ]	—	PROP. CATCH BASIN
[ ]	—	PROP. DRAINAGE MANHOLE
[ ]	—	EXISTING DRAINAGE MANHOLE
[ ]	—	EXISTING SAN. SEWER MANHOLE
[ ]	—	EXISTING WATER MAIN VALVE BOX
[ ]	—	EXISTING FORCE MAIN VALVE BOX
[ ]	—	EXISTING WATER METER
[ ]	—	EXISTING ELECTRICAL PANEL/PULL BOX
[ ]	—	EXISTING COMMUNICATION PANEL/PULL BOX
[ ]	—	EXISTING FIRE HYDRANT

**ROADWAY PLANS LEGEND:**

①	—	EXISTING SANITARY SEWER / DRAINAGE MANHOLE TO BE ADJUSTED BY A LICENSED CONTRACTOR
②	—	EXISTING WATER/FORCE MAIN/GAS VALVE BOX & LID TO BE ADJUSTED BY A LICENSED CONTRACTOR
③	—	CONTINGENCY: REPLACE EXIST. CONCRETE DRIVEWAY BY 6" CONCRETE DRIVEWAY (MATCH EXIST. LAYOUT AND STAMP PATTERN)
[ ]	—	CONSTRUCT 6" CONC. SIDEWALK, HANDICAP RAMPS, DRIVEWAYS & INLET APRONS
[ ]	—	AREA TO BE RESODDED.
[ ]	—	MILLING EXISTING ASPHALT PAVEMENT (½" AVERAGE) RESURFACING WITH 1 LIFT (1") OF SP-9.5 ASPHALTIC CONCRETE SURFACE COURSE (INSTALL W/ THE SECOND LIFT OF THE PAVEMENT RESTORATION AND NEW PAVEMENT)
[ ]	—	EXIST. ASPHALT DRIVEWAY TO BE RESURFACED W/ 1" SP-9.5 CONCRETE ASPHALT.
[ ]	—	CONTINGENCY: EXIST. PAVER DRIVEWAY TO BE RESURFACED. SEE PAVER DRIVEWAY RESTORATION DETAIL SHEET C-20
[ ]	—	<u>NEW PAVEMENT/ WIDENING/ DRAINAGE TRENCH RESTORATION</u>
—	—	2 LIFTS OF (1") SP-9.5 ASPHALTIC CONC.
—	—	8" MIN. BASE COURSE COMPACTED TO MIN. 98% (MODIFIED PROCTOR) MIN. LBR=100 PER AASHTO T-180)
—	—	12" STABILIZED SUBBASE, COMPACTED TO MIN. 98%, MIN. LBR=40, PER AASHTO T-180

REV.	DATE	BY:	DESCRIPTION

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DRAWN BY:	C.B.
CHECKED BY:	J.C.F.
DATE:	12/6/2023

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**CUTLER BAY - ROADWAY & DRAINAGE IMPROVEMENTS AREA # 4**

**LEGEND AND ABBREVIATIONS**

SCALE:	AS SHOWN
PROJECT NO.:	2151
DWG. NO.:	SHEET:
	C-4



### PAY ITEM DESCRIPTION

1	CONTRACTOR SHALL FURNISH AS-BUILT PLANS SIGNED AND SEALED BY AND PROFESSIONAL LAND SURVEYOR TO THE TOWN OF CUTLER BAY TO BE ACCOMPLISHED IN ACCORDANCE WITH THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS, U.S. DEPARTMENT OF TRANSPORTATION FEDERAL HIGHWAY ADMINISTRATION. PUBLIC WORKS MANUAL OF MIAMI DADE COUNTY, THE LATEST REVISIONS OF THE AFOREMENTIONED MANUALS AT TIME OF CONSTRUCTION WITH ENGINEER APPROVAL, AND IN ACCORDANCE WITH THE LATEST FLORIDA DEPARTMENT OF TRANSPORTATION DESIGN STANDARDS INDEX 102 SERIES. INCLUDES THE COST OF CONSTRUCTION OF TEMPORARY PAVEMENT & ITS SUBSEQUENT REMOVAL.
102-1	THIS ITEM IS TO BE USED IN ACCORDANCE WITH THE PLANS, STANDARDS, AND/OR EROSION AND SEDIMENT CONTROL MANUAL FOR THE PROTECTION OF EXISTING INLETS. PAYMENT PER EACH INLET INCLUDES ALL WORK AND MATERIALS FOR A COMPLETE SYSTEM. PROPOSED INLETS: THE PAYMENT FOR PROTECTING NEW INLETS IS INCIDENTAL TO THE COST OF THE NEW INLET. CURB INLET FILTERS, CURB INSERT PROTECTION SYSTEMS, PIPE END CAP FILTERS, DITCH BOTTOM INLET PROTECTION SYSTEMS ("CAPS", BARRIERS, AND OTHER MATERIALS), ARE INCLUDED IN THIS PAY ITEM.
104-18	CONSISTS OF COMPLETE REMOVAL AND DISPOSAL OF ALL VEGETATION, DEBRIS, DRAINAGE STRUCTURES, DRAINAGE PIPES, FLEXIBLE PAVEMENT, OR ANY OTHER OBSTRUCTIONS IN ALL AREAS WHERE EXCAVATION IS TO BE DONE, OR WHERE EMBANKMENTS OR STRUCTURES WILL BE CONSTRUCTED. THIS INCLUDES ROADWAY AREA, DITCH AREA, BORROW AND MATERIAL PITS, AND AREAS WHERE CULVERTS OR PIPELINES WILL BE CONSTRUCTED. ALSO INCLUDES SHRUB AND TREE TRIMMING. ALL DEBRIS SHOULD BE DISPOSED OF IN LEGAL AREAS PROVIDED BY THE CONTRACTOR.
110-1-1	CONSISTS OF REMOVING AND DISPOSING OF EXISTING CONCRETE PAVEMENT, CONCRETE SIDEWALKS, CONCRETE APRONS, DITCH PAVEMENT, CONCRETE PAVERS, AND CURB AND GUTTER.
110-4-10	THE DISPOSAL OF MUCK, CLAY, ROCK, OR OTHER UNSUITABLE MATERIAL THAT COULD EXIST.
120-4	INCLUDES ALL WORK AND MATERIALS (SUITABLE MATERIAL) PER FDOT SECTION 120 AND INDEX 120-001 REPLACE WITH CLEAN FILL THE VOLUME OF SUBSOIL EXCAVATION (PAY ITEM 120-4).
120-6	INCLUDES EXCAVATION FOR BOX CULVERTS, PIPE CULVERTS (SOLID PIPE), INLETS, MANHOLES, AND SIMILAR STRUCTURES. BASE AND SUB-BASE EXCAVATION WITHIN TRENCH RESTORATION IS INCLUDED IN THIS PAID ITEM. THESE ARE ESTIMATED QUANTITIES AND MAY BE INCREASED OR DECREASED.
125-1	INCLUDES ALL WORK AND MATERIALS SPECIFIED IN SECTION 160 (FDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION), INCLUDING FURNISHING, SPREADING, AND MIXING OF ALL STABILIZING MATERIAL REQUIRED AND ANY REPROCESSING OF STABILIZATION AREAS NECESSARY TO ATTAIN THE SPECIFIED BEARING VALUE.
160-4	CONSISTS OF REMOVING EXISTING AC PAVEMENT TO IMPROVE THE RIDEABILITY OF THE FINISHED PAVEMENT, TO LOWER THE FINISHED GRADE ADJACENT TO EXISTING CURB PRIOR TO RESURFACING, OR TO COMPLETELY REMOVE EXISTING PAVEMENT. INCLUDES TRANSPORTING THE MILLED MATERIAL TO THE ASPHALT PLANT SITE AND STOCKPILING THE MATERIAL. ALSO INCLUDES REMOVAL OF EXISTING REFLECTIVE PAVEMENT MARKER
327-70-16	INCLUDES: POLLUTION RETARDANT BAFFLE, FRAME, GRATES, COVERS, MATERIALS, METAL PIPE ENCASUREMENT, INLET PROTECTION (PAY ITEM DESCRIPTION 104-18), LABOR AND CONSTRUCTION SHALL BE INCLUDED IN COST OF STRUCTURES.
425-1-SERIES 425-2-SERIES	WITHIN PAVEMENT AREA, MANHOLES AND VALVE BOXES TO BE ADJUSTED AS NECESSARY.
425-5 & 425-6	INCLUDES FURNISHING AND PLACING: PIPE PLUGS, PIPE FITTING, CAPS, CONCRETE JACKET AND SOLID PIPES.
430-174-SERIES	INCLUDES: EXCAVATION TO PLAN ELEVATION (15 FEET DEEP, SEE DETAILS SHEETS), FURNISHING AND PLACING: (PIPE PLUGS, PIPE FITTINGS, PERFORATED PIPES, BALLAST ROCK AND BACKFILLING WITH SELECT FILL, FILTER FABRIC AND ALL APPLICABLE ITEMS REQUIRED TO CONSTRUCT DRAIN). ALSO, IT IS INCLUDED THE ADDITIONAL COST OF EXCAVATING AROUND THE LATERALS SERVICING SAID PROPERTIES.
443-70-SERIES	ESTIMATED QUANTITY FOR: DRIVEWAYS, SIDEWALK, RAMPS, APRON, AND CONC. SLAB (REINFORCED) TO BE CONSTRUCTED AT LOCATIONS SHOWN IN THE PLANS AND/OR AS DIRECTED BY THE ENGINEER.
522-2	INCLUDES ALL LABOR AND MATERIALS (PAVER, SAND LEVELING COURSE, 6" LIMEROCK, AND ANY PROCESSING OR MATERIAL NECESSARY TO COMPLETE PAVER INSTALLATION.)
526-1-1	INCLUDES 4" TOPSOIL LAYER AND SOD TO BE USED IN THE RESTORATION OF LAWNS AND MAY BE INCREASED OR DECREASED AS DIRECTED BY THE TOWN OF CUTLER BAY. BAHIA SOD OR TO MATCH EXISTING SOD.
570-1-2	


### QUANTITIES AND PAY ITEM NOTES:

- EXCESS AND/OR UNDESIRABLE MATERIAL TO BE DISPOSED OF BY CONTRACTOR IN LEGAL AREAS PROVIDED BY HIM. NO SEPARATE PAYMENT WILL BE MADE FOR THIS ITEM.
- ANY EXCAVATED MATERIAL, IF UNSUITABLE, SHALL NOT BE USED IN THE CONSTRUCTION OF THE EMBANKMENT.
- ASPHALT DRIVEWAY RESTORATION IS INCLUDED IN THE PAY ITEM 334-1-13.
- THE CONTINGENCY ITEM MUST BE APPROVED BY THE ENGINEER ON RECORD AND THE TOWN.
- THE 5 L.F. OF SOLID PIPE ON BOTH SIDES OF THE FRENCH DRAIN ARE INCLUDED IN THE QUANTITIES LISTED UNDER PAY ITEMS 430-174-SERIES AND 125-1 (EXCAVATION)
- REFER TO FDOT'S "DESIGN QUANTITIES AND ESTIMATES" (DQE) FOR MORE INFORMATION ON THE PAYMENT ITEM DESCRIPTIONS.

REV.	DATE	BY:	DESCRIPTION

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**CUTLER BAY - ROADWAY &  
DRAINAGE IMPROVEMENTS  
AREA # 4**

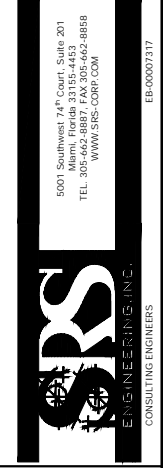
PAY ITEMS NOTES

SCALE:  
AS SHOWN  
PROJECT NO.:  
2151  
DWG. NO.:  
SHEET:  
C-5.0

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ROADWAY			
Item	Pay Item No.	Description	Unit Measure
1	001	AS BUILT	LS
2	101-1	MOBILIZATION	LS
3	102-1	MAINTENANCE OF TRAFFIC	LS
4	102-14	TRAFFIC CONTROL OFFICER ALLOWANCE	HR
5	104-18	INLET PROTECTION SYSTEM (EXISTING INLETS)	EA
6	110-1-1	CLEARING AND GRUBBING	LS
7	110-4-10	REMOVAL OF EXISTING CONCRETE AND PAVERS (CONTINGENCY)	SY
8	110-7-1	MAILBOX, F&I SINGLE	EA
9	120-4	SUBSOIL EXCAVATION (CONTINGENCY)	CY
10	120-6	EMBANKMENT (CONTINGENCY)	CY
11	125-1	EXCAVATION FOR STRUCTURES AND SOLID PIPES	CY
12	160-4	TYPE B STABILIZATION	SY
13	285-706	LIMEROCK BASE (8") (OPTIONAL BASE, BASE GROUP 06)	SY
14	327-70-16	MILLING EXISTING ASPHALT PAVEMENT (1/2" AVG. DEPTH)	SY
15	334-1-13	SUPERPAVE ASPHALTIC CONC, TRAFFIC C, SP-9.5 (1" LIFTS)	TN
16	425-1-2B	SD-3.1 SWALE INLET TYPE D-1 (17" x 27") < 10' (M-DPWD PAY ITEM)	EA
17	425-1-2-B	SD-3.1 SWALE INLET TYPE D-1 (17" x 27") > 10' (M-DPWD PAY ITEM)	EA
18	425-1-2A	SD-2.2 SWALE INLET TYPE D-3 (36" Dia.) < 10' (M-DPWD PAY ITEM)	EA
19	425-1-2-A	SD-2.2 SWALE INLET TYPE D-3 (36" Dia.) > 10' (M-DPWD PAY ITEM)	EA
20	425-1-604	SD-2.7 SWALE INLETS (TYPE-P) < 10' (M-DPWD PAY ITEM)	EA
21	425-2-41	SD-2.7 MANHOLES, P-7, < 10' (M-DPWD PAY ITEM)	EA
22	425-2-42	SD-2.7 MANHOLES, P-7, > 10' (M-DPWD PAY ITEM)	EA
23	425-2-71	SD-2.6 MANHOLES, J-7, < 10' (M-DPWD PAY ITEM)	EA
24	425-2-72	SD-2.6 MANHOLES, J-7, > 10' (M-DPWD PAY ITEM)	EA
25	425-5	MANHOLE, ADJUST	EA
26	425-6	VALVE BOXES, ADJUST	EA
27	430-174-118	PIPE CULVERT, OPTIONAL MATERIAL, ROUND, 18" SD (HDPE)	LF
28	443-70-3	EXFILTRATION DRAIN (18")	LF
29	522-2	CONCRETE SIDEWALK (6" THICK) (SIDEWALK, RAMP, APRON, DRIVEWAY & SALB) + (10% CONTINGENCY)	SY
30	526-1-1	PAVERS, ARCHITECTURAL, ROADWAY (DRIVEWAYS) (CONTINGENCY)	SY
31	570-1-2	PERFORMANCE TURF, SOD	SY

PAVEMENT MARKING AND SIGNAGE			
Item	Pay Item No.	Description	Unit Measure
32	710-11-101	PAINTED PAVEMENT MARKINGS, STANDARD, WHITE, SOLID, 6"	GM
33	710-11-123	PAINTED PAVEMENT MARKINGS, STANDARD, WHITE, SOLID FOR CROSSWALK AND ROUNDABOUT, 12"	LF
34	710-11-125	PAINTED PAVEMENT MARKINGS, STANDARD, WHITE, SOLID FOR STOP LINE OR CROSSWALK, 24"	LF
35	710-11-201	PAINTED PAVEMENT MARKINGS, STANDARD, YELLOW, SOLID, 6"	GM
36	706-1-1	RAISED PAVEMENT MARKER, TYPE B WITHOUT FINAL SURFACE MARKINGS (Y/Y, W/R, BLUE)	EA
37	711-11-123	THERMOPLASTIC, STANDARD, WHITE, SOLID, 12" FOR CROSSWALK AND ROUNDABOUT	LF
38	711-11-125	THERMOPLASTIC, STANDARD, WHITE, SOLID, 24" FOR STOP LINE AND CROSSWALK	LF
39	711-16-101	THERMOPLASTIC, STANDARD-OTHER SURFACES, WHITE, SOLID, 6"	GM
40	711-16-201	THERMOPLASTIC, STANDARD-OTHER SURFACES, YELLOW, SOLID, 6"	GM

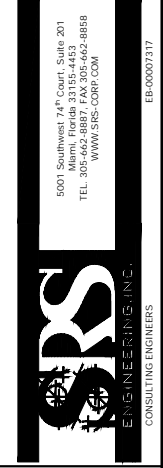


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CUTLER BAY - ROADWAY & DRAINAGE IMPROVEMENTS  
AREA # 4

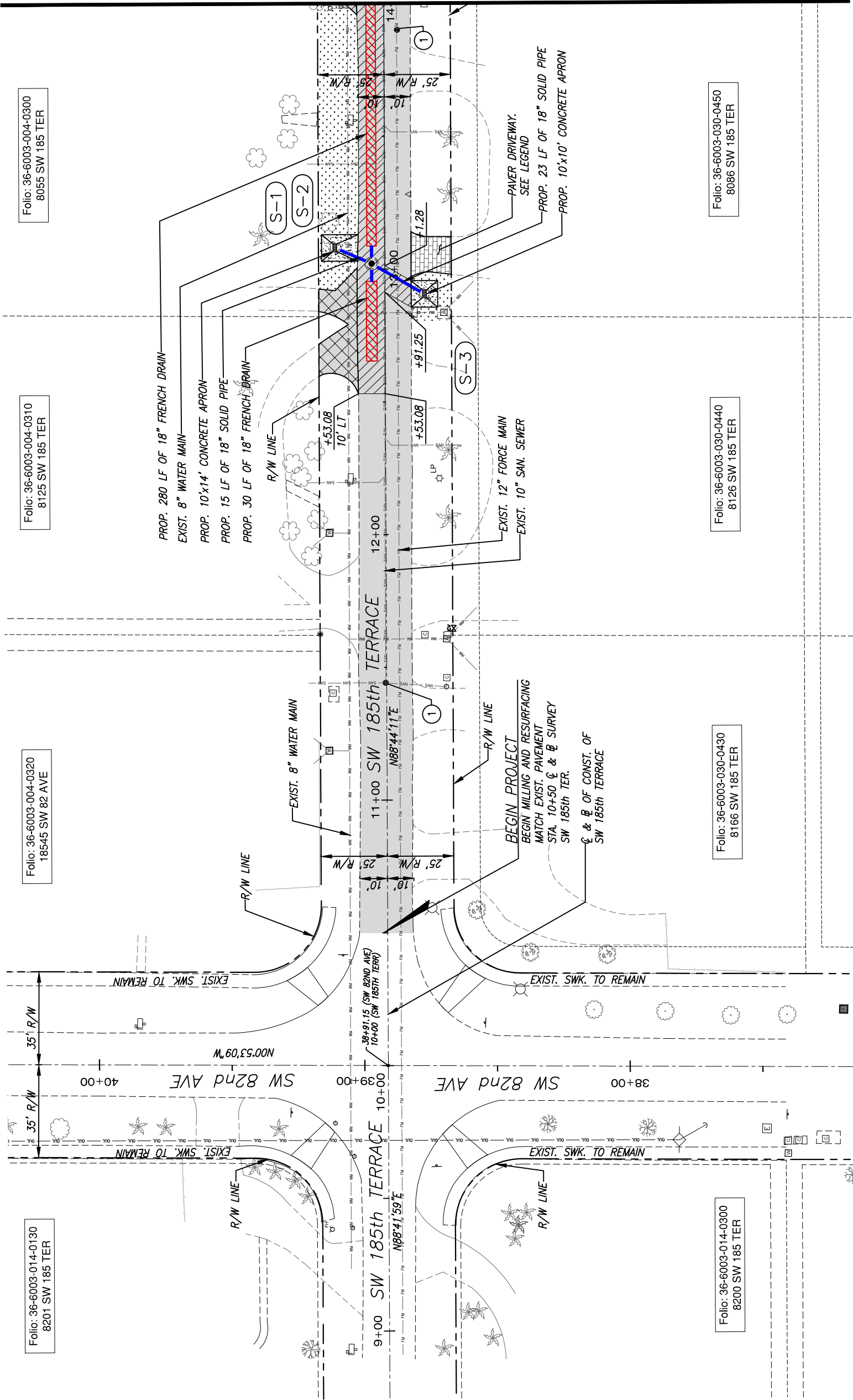
SUMMARY OF QUANTITIES

SCALE: AS SHOWN  
PROJECT NO.: 2151  
DWG. NO.:  
SHEET: C-5.1





MATCH LINE STA. 14+00 (FOR CONTINUATION SEE SHEET C-7)



**NOTE:**  
1.. SEE LEGEND AND ABBREVIATIONS ON SHEET C-4



Folio: 36-6003-004-0300  
8055 SW 185 TER

Folio: 36-6003-004-0310  
8125 SW 185 TER

Folio: 36-6003-004-0320  
18545 SW 82 AVE

Folio: 36-6003-030-0450  
8086 SW 185 TER

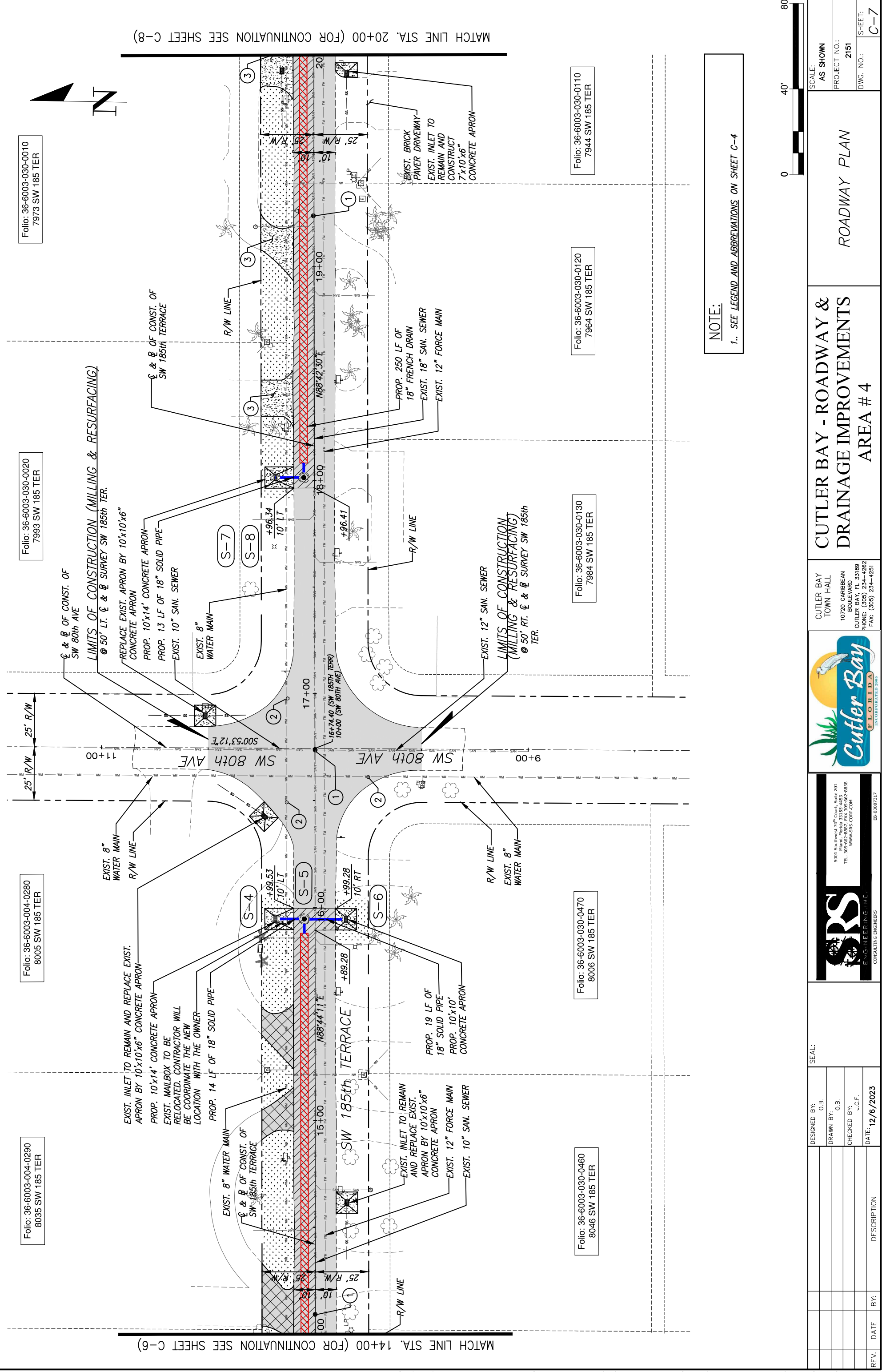
Folio: 36-6003-030-0440  
8126 SW 185 TER

Folio: 36-6003-030-0430  
8166 SW 185 TER

Folio: 36-6003-014-0130  
8201 SW 185 TER

Folio: 36-6003-014-0300  
8200 SW 185 TER

		<b>CUTLER BAY - ROADWAY &amp; DRAINAGE IMPROVEMENTS AREA # 4</b>		<b>ROADWAY PLAN</b>	
CUTLER BAY TOWN HALL 10720 CARIBBEAN BOULEVARD CUTLER BAY, FL 33189 PHONE: (305) 234-4262 FAX: (305) 234-4251		SCALE: AS SHOWN PROJECT NO.: 2151 DWG. NO.: SHEET: C-6		DESIGNED BY: C.B. DRAWN BY: C.B. CHECKED BY: J.C.F. DATE: 12/6/2023	
		SEAL:		REV. DATE BY: DESCRIPTION	



Folio: 36-6003-030-0010  
7973 SW 185 TER

Folio: 36-6003-030-0020  
7993 SW 185 TER

Folio: 36-6003-004-0280  
8005 SW 185 TER

Folio: 36-6003-004-0290  
8035 SW 185 TER

Folio: 36-6003-030-0110  
7944 SW 185 TER

Folio: 36-6003-030-0120  
7964 SW 185 TER

Folio: 36-6003-030-0130  
7984 SW 185 TER

Folio: 36-6003-030-0470  
8006 SW 185 TER

Folio: 36-6003-030-0460  
8046 SW 185 TER

**NOTE:**  
1. SEE LEGEND AND ABBREVIATIONS ON SHEET C-4



REV.	DATE	BY:	DESCRIPTION

DESIGNED BY:	C.B.
DRAWN BY:	C.B.
CHECKED BY:	J.C.F.
DATE:	12/6/2023

SCALE:	AS SHOWN
PROJECT NO.:	2151
DWG. NO.:	
SHEET:	C-7

CUTLER BAY TOWN HALL 10720 CARBIDEAN BOULEVARD CUTLER BAY, FL 33189 PHONE: (305) 234-4262 FAX: (305) 234-4251	<b>CUTLER BAY - ROADWAY &amp; DRAINAGE IMPROVEMENTS AREA # 4</b>	<b>ROADWAY PLAN</b>
---	--	---------------------

<b>SRS</b> ENGINEERING, INC. CONSULTING ENGINEERS	5001 Southwest 7th Court, Suite 201 Miami, Florida 33152-4453 TEL: 305-662-8887 FAX: 305-662-8858 WWW.SRS-CONV.COM
---	---

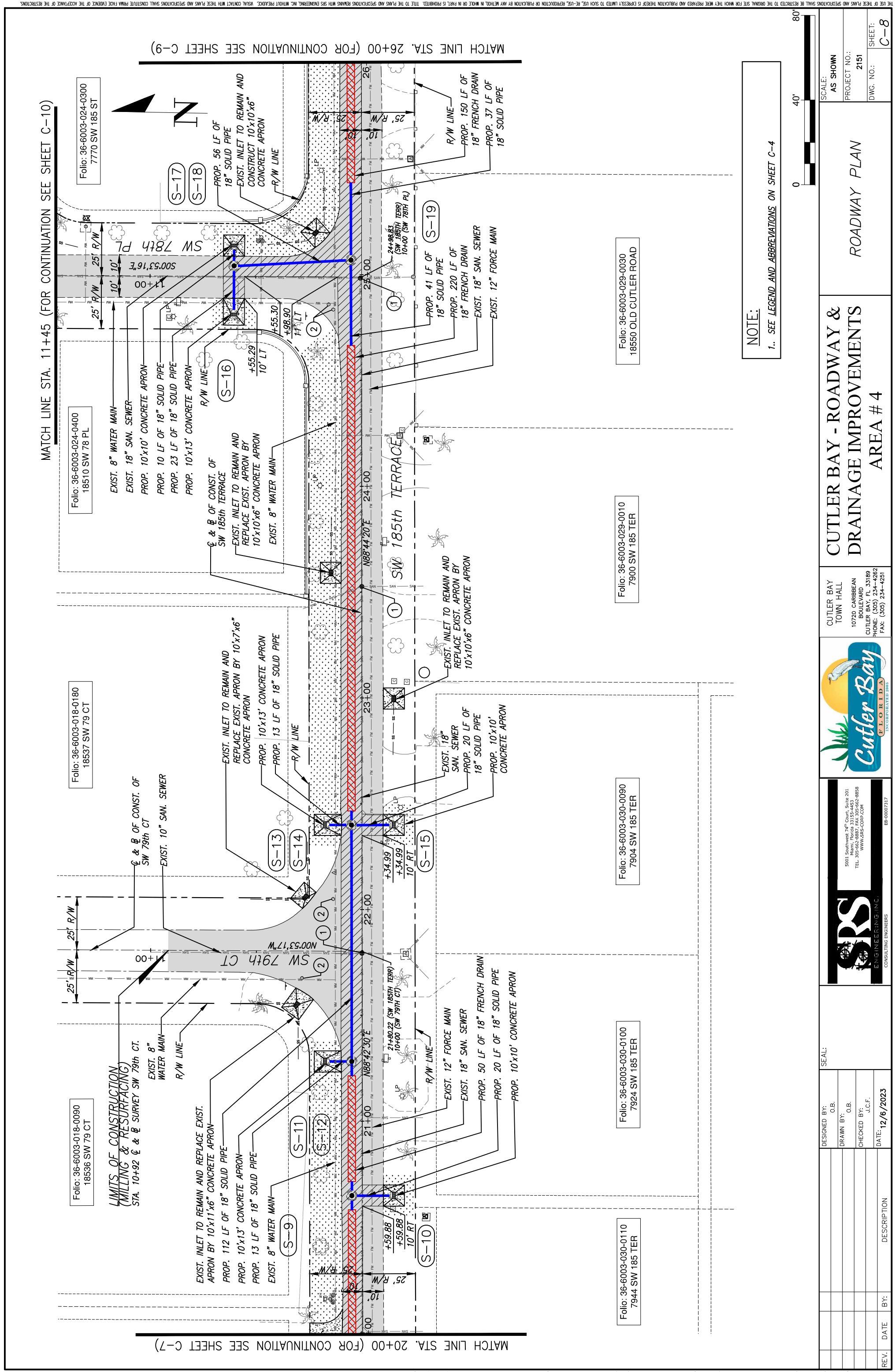
  

EB-0007317

MATCH LINE STA. 14+00 (FOR CONTINUATION SEE SHEET C-6)

MATCH LINE STA. 20+00 (FOR CONTINUATION SEE SHEET C-8)





MATCH LINE STA. 20+00 (FOR CONTINUATION SEE SHEET C-7)

MATCH LINE STA. 26+00 (FOR CONTINUATION SEE SHEET C-9)

MATCH LINE STA. 11+45 (FOR CONTINUATION SEE SHEET C-10)

**NOTE:**  
1. SEE LEGEND AND ABBREVIATIONS ON SHEET C-4



REV.	DATE	BY:	DESCRIPTION

DESIGNED BY:	C.B.
DRAWN BY:	C.B.
CHECKED BY:	J.C.F.
DATE:	12/6/2023

SEAL:	
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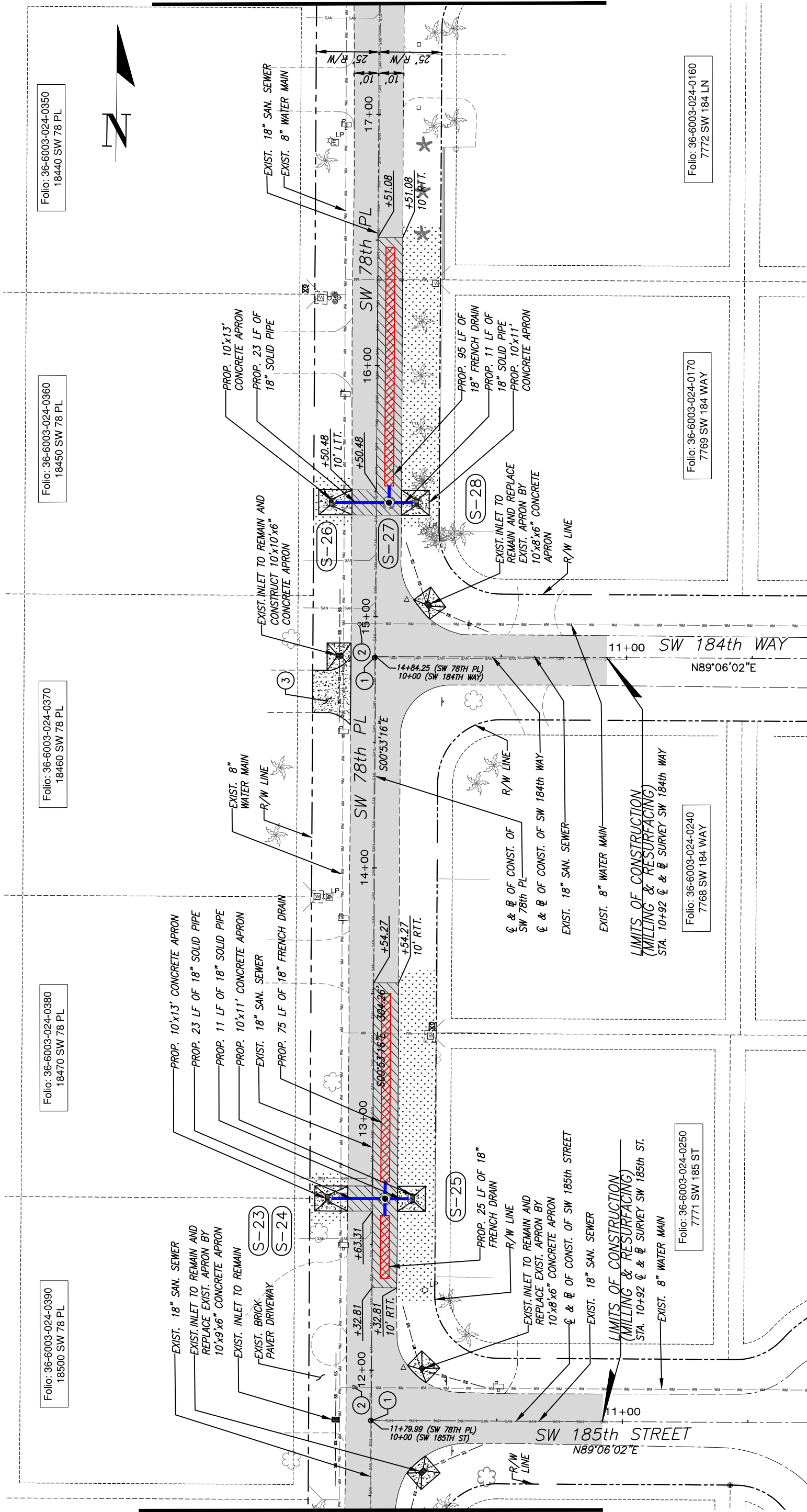
  

5001 Southwest 74th Court, Suite 201 Miami, Florida 33152-4453 TEL: 305-662-8887 FAX: 305-662-8858 WWW.SRS-CON.COM	
CUTLER BAY TOWN HALL 10720 CARIBBEAN BOULEVARD CUTLER BAY, FL 33189 PHONE: (305) 234-4262 FAX: (305) 234-4251	
<b>CUTLER BAY - ROADWAY &amp; DRAINAGE IMPROVEMENTS AREA # 4</b>	
<b>ROADWAY PLAN</b>	
SCALE:	AS SHOWN
PROJECT NO.:	2151
DWG. NO.:	
SHEET:	C-8



MATCH LINE STA. 11+45 (FOR CONTINUATION SEE SHEET C-8)

MATCH LINE STA. 17+45 (FOR CONTINUATION SEE SHEET C-11)



Folio: 36-6003-024-0350  
18440 SW 78 PL

Folio: 36-6003-024-0360  
18450 SW 78 PL

Folio: 36-6003-024-0370  
18460 SW 78 PL

Folio: 36-6003-024-0380  
18470 SW 78 PL

Folio: 36-6003-024-0390  
18500 SW 78 PL

Folio: 36-6003-024-0160  
7772 SW 184 LN

Folio: 36-6003-024-0170  
7769 SW 184 WAY

Folio: 36-6003-024-0240  
7768 SW 184 WAY

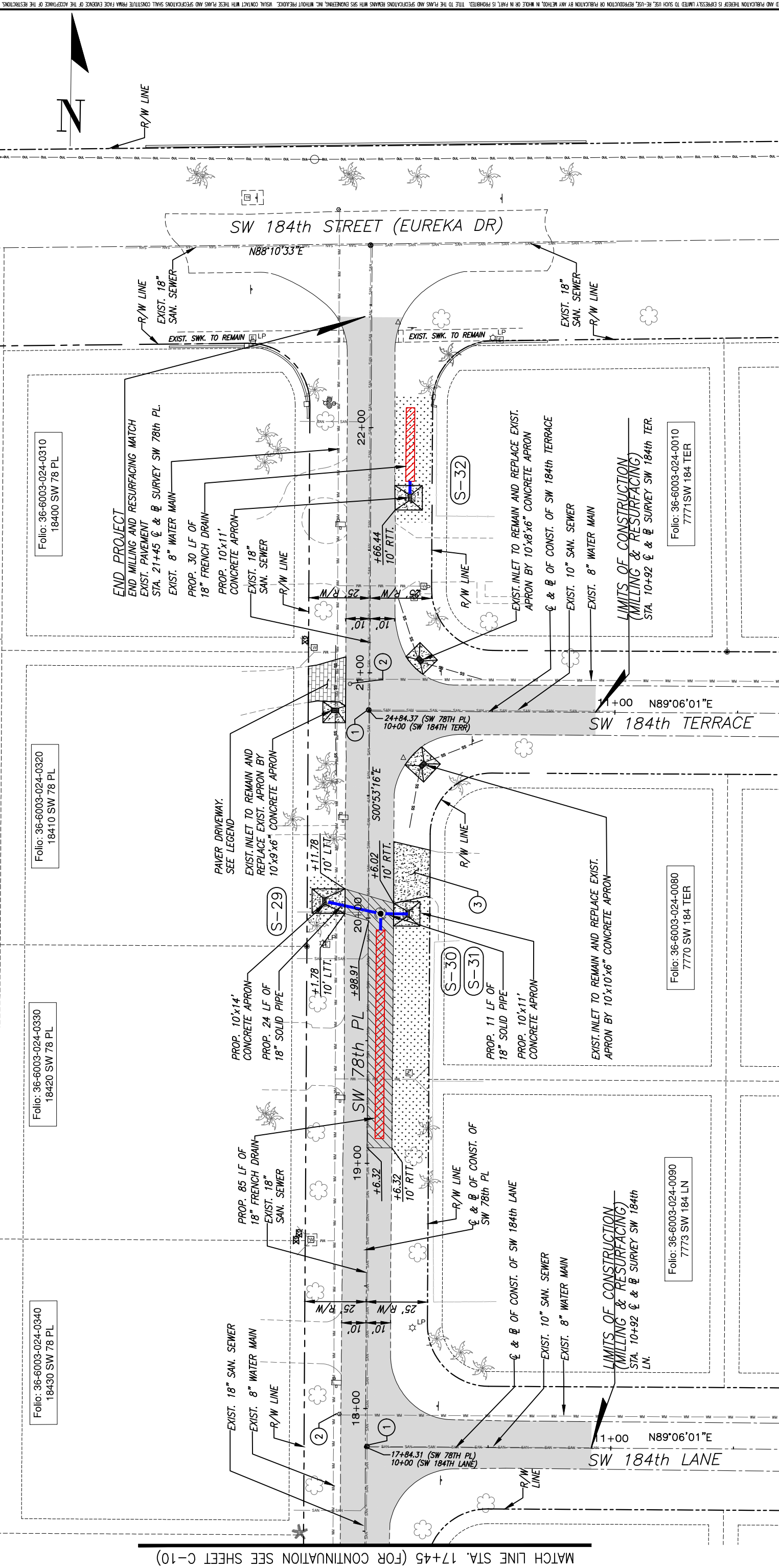
Folio: 36-6003-024-0250  
7771 SW 185 ST

NOTE:  
1. SEE LEGEND AND ABBREVIATIONS ON SHEET C-4



DESIGNED BY: C.B.	SCALE: AS SHOWN	ROADWAY PLAN
DRAWN BY: C.B.	PROJECT NO.: 2151	
CHECKED BY: J.C.F.	DWG. NO.:	CUTLER BAY - ROADWAY & DRAINAGE IMPROVEMENTS AREA # 4
DATE: 12/6/2023	SHEET: C-10	
REV. DATE BY: DESCRIPTION		
		
CUTLER BAY TOWN HALL 10720 CARIBBEAN BOULEVARD CUTLER BAY, FL 33189 PHONE: (305) 234-4262 FAX: (305) 234-4251		





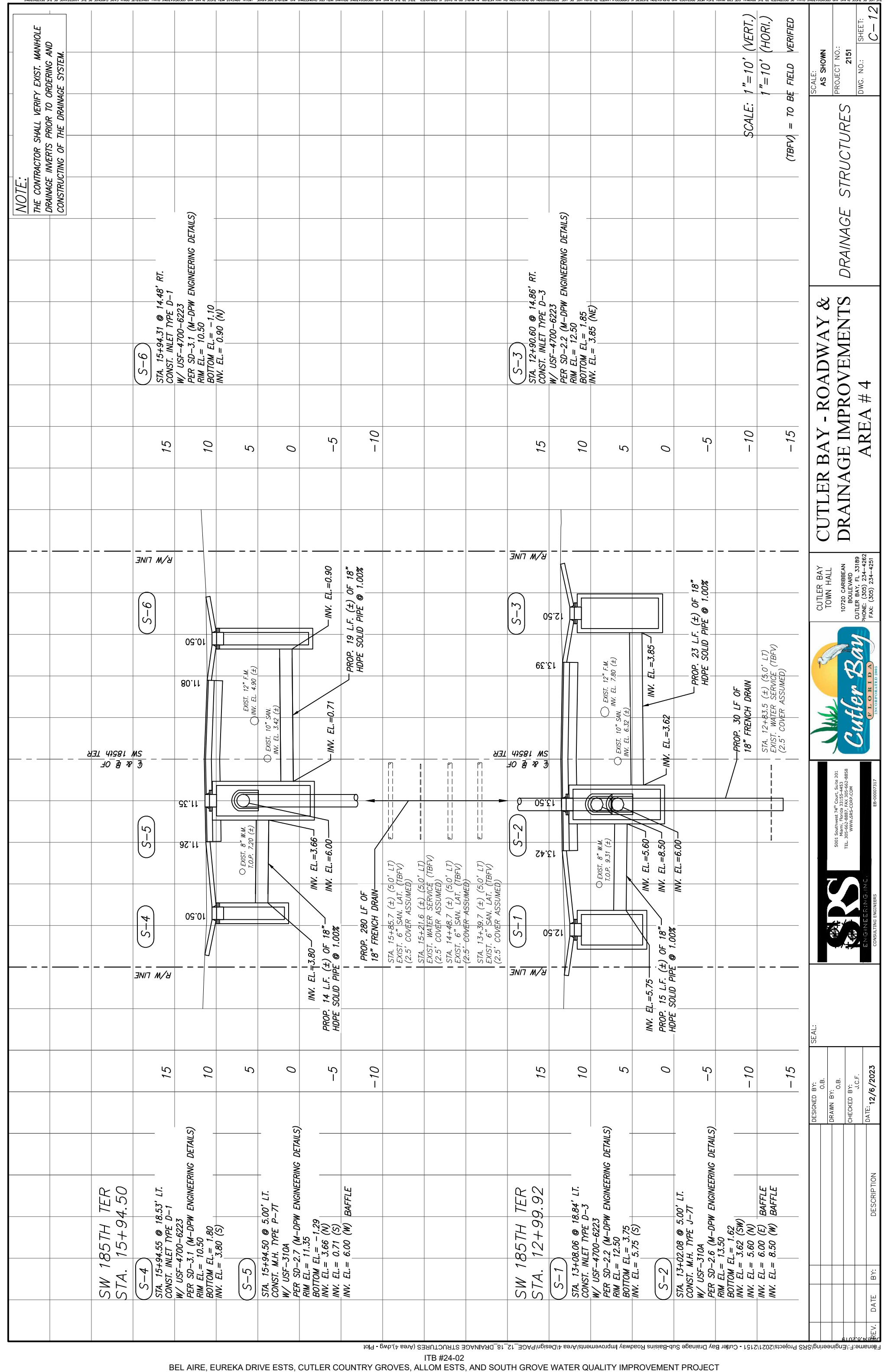
MATCH LINE STA. 17+45 (FOR CONTINUATION SEE SHEET C-10)

NOTE:  
1.. SEE LEGEND AND ABBREVIATIONS ON SHEET C-4



DESIGNED BY: C.B.	SCALE: AS SHOWN	<b>CUTLER BAY - ROADWAY &amp; DRAINAGE IMPROVEMENTS AREA # 4</b> ROADWAY PLAN
DRAWN BY: C.B.	PROJECT NO.: 2151	
CHECKED BY: J.C.F.	DWG. NO.:	
DATE: 12/6/2023	SHEET: C-11	
REV. DATE BY: DESCRIPTION	CUTLER BAY TOWN HALL 10720 CARIBBEAN BOULEVARD CUTLER BAY, FL 33189 PHONE: (305) 234-4262 FAX: (305) 234-4251	
<small>5001 Southwest 74th Court, Suite 201          Miami, Florida 33152-4453          TEL: 305-662-8887 FAX: 305-662-8858          WWW.SRS-CON.COM</small>		
<small>EB-0007317</small>		





REV.	DATE	BY:	DESCRIPTION

DESIGNED BY:	C.B.	SEAL:

DATE:	12/6/2023

PROJECT NO.:	2151

SCALE:	AS SHOWN

PROJECT NO.:	2151

SCALE:	1"=10' (VERT.)

SCALE:	1"=10' (HORI.)

(TBFV) = TO BE FIELD VERIFIED

CUTLER BAY - ROADWAY & DRAINAGE IMPROVEMENTS AREA # 4

CUTLER BAY TOWN HALL

CUTLER BAY TOWN HALL

CUTLER BAY TOWN HALL

CUTLER BAY TOWN HALL

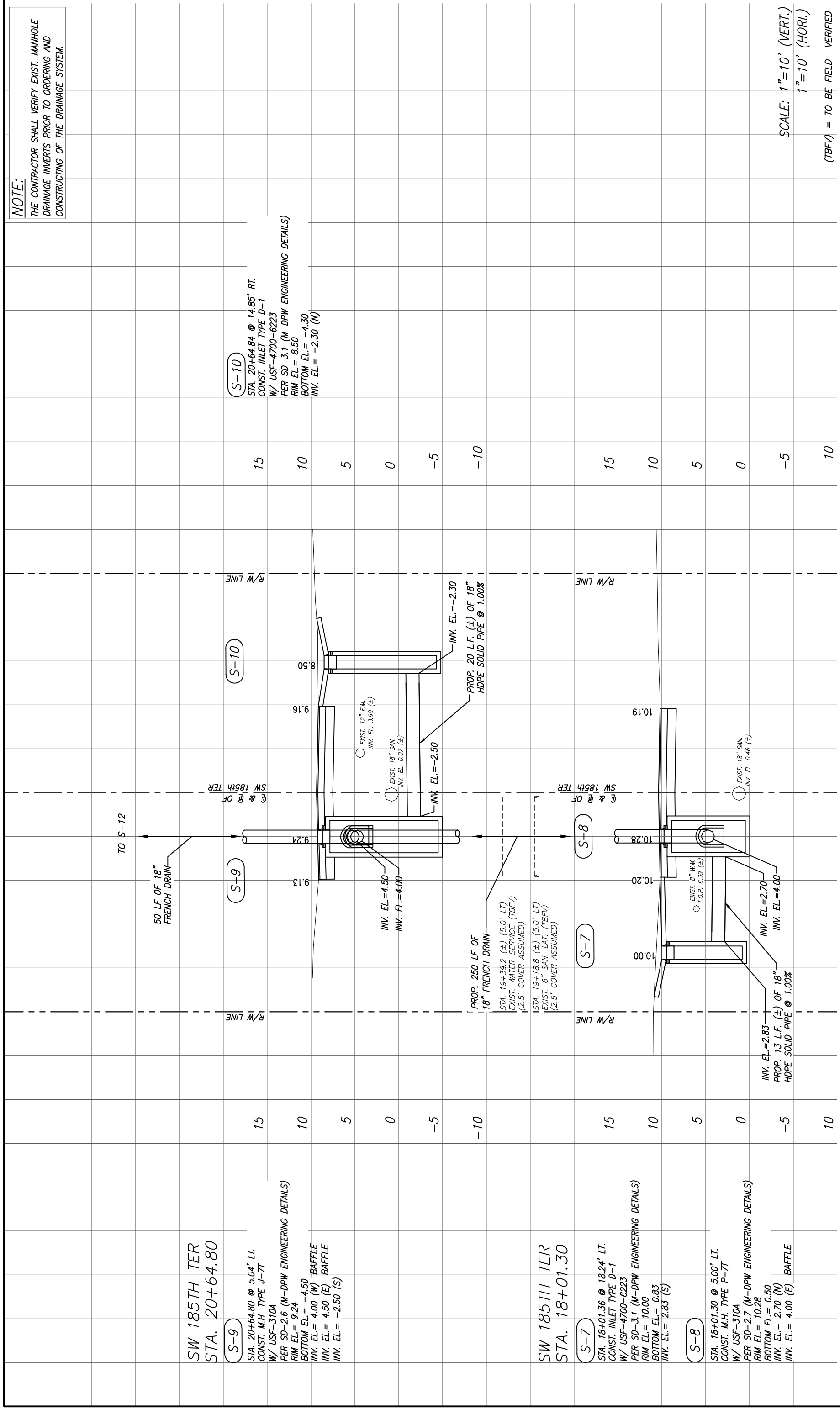
CUTLER BAY TOWN HALL

CUTLER BAY TOWN HALL

CUTLER BAY TOWN HALL

CUTLER BAY TOWN HALL

**NOTE:**  
THE CONTRACTOR SHALL VERIFY EXIST. MANHOLE  
DRAINAGE INVERTS PRIOR TO ORDERING AND  
CONSTRUCTING OF THE DRAINAGE SYSTEM.



**S-10**  
STA. 20+64.84 @ 14.85' RT.  
CONST. INLET TYPE D-1  
W/ USF-4700-6223  
PER SD-3.1 (M-DPW ENGINEERING DETAILS)  
RIM EL.= 8.50  
BOTTOM EL.= -4.30  
INV. EL.= -2.30 (N)

**S-9**  
SW 185TH TER  
STA. 20+64.80  
CONST. M.H. TYPE J-7T  
W/ USF-310A  
PER SD-2.6 (M-DPW ENGINEERING DETAILS)  
RIM EL.= 9.24  
BOTTOM EL.= -4.50  
INV. EL.= 4.00 (W) BAFFLE  
INV. EL.= 4.50 (E) BAFFLE  
INV. EL.= -2.50 (S)

**S-7**  
STA. 18+01.36 @ 18.24' LT.  
CONST. INLET TYPE D-1  
W/ USF-4700-6223  
PER SD-3.1 (M-DPW ENGINEERING DETAILS)  
RIM EL.= 10.00  
BOTTOM EL.= 0.83  
INV. EL.= 2.83 (S)

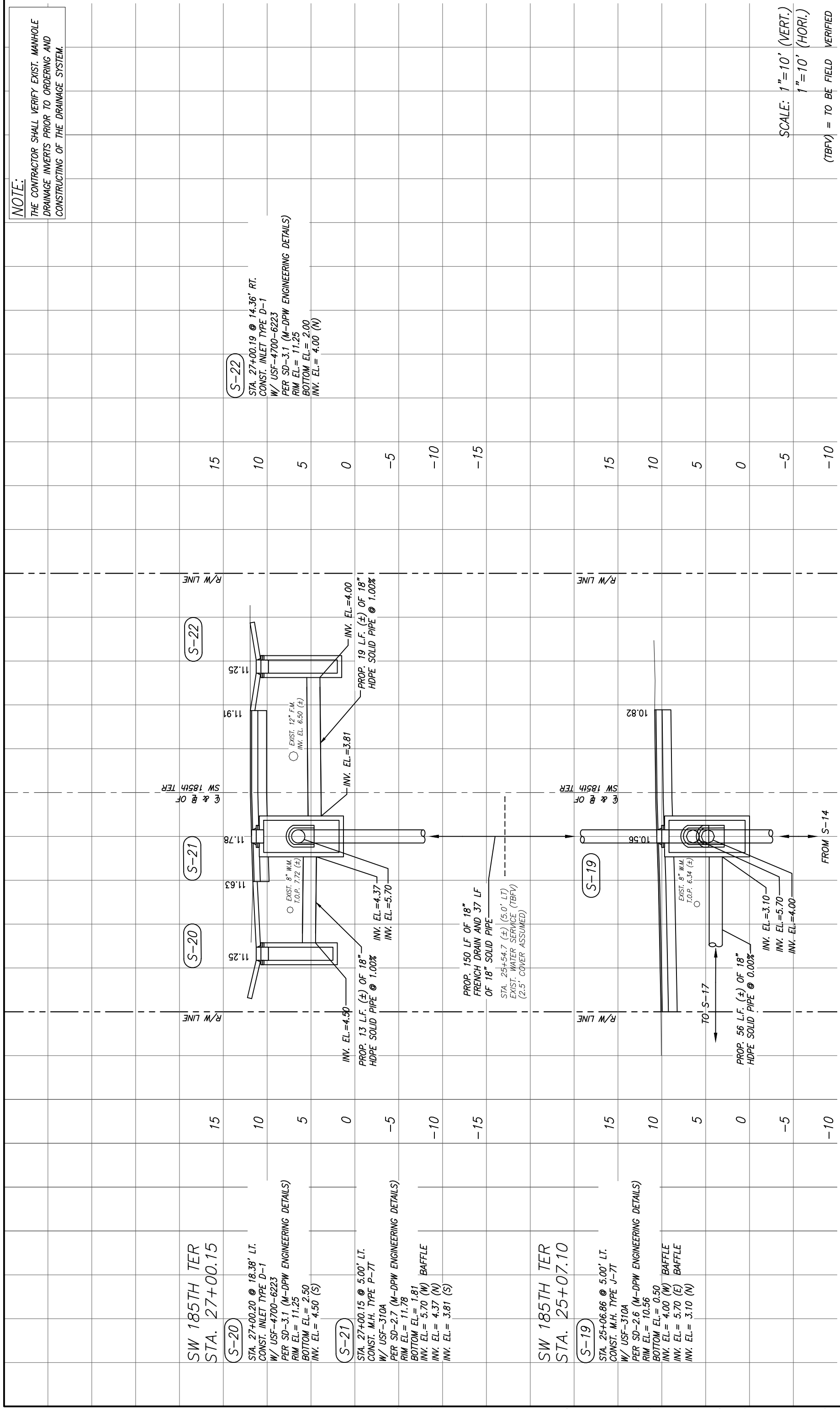
**S-8**  
STA. 18+01.30 @ 5.00' LT.  
CONST. M.H. TYPE P-7T  
W/ USF-310A  
PER SD-2.7 (M-DPW ENGINEERING DETAILS)  
RIM EL.= 10.28  
BOTTOM EL.= 0.50  
INV. EL.= 2.70 (N)  
INV. EL.= 4.00 (E) BAFFLE

SCALE: 1"=10' (VERT.)  
1"=10' (HORI.)  
(TBFV) = TO BE FIELD VERIFIED

DESIGNED BY:	C.B.	DATE:	12/6/2023
DRAWN BY:	C.B.	REV.	
CHECKED BY:	J.C.F.	DATE:	12/6/2023
BY:		DESCRIPTION:	
CUTLER BAY TOWN HALL 10720 CARIBBEAN BOULEVARD CUTLER BAY, FL 33189 PHONE: (305) 234-4262 FAX: (305) 234-4251			
SCALE: AS SHOWN		PROJECT NO.: 2151	
DWG. NO.:		SHEET: C-13	
CUTLER BAY - ROADWAY & DRAINAGE IMPROVEMENTS AREA # 4		DRAINAGE STRUCTURES	



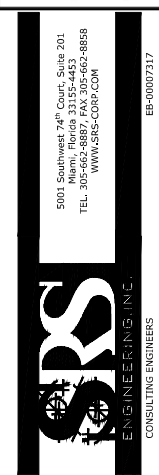
**NOTE:**  
THE CONTRACTOR SHALL VERIFY EXIST. MANHOLE  
DRAINAGE INVERTS PRIOR TO ORDERING AND  
CONSTRUCTING OF THE DRAINAGE SYSTEM.



SCALE: 1"=10' (VERT.)  
1"=10' (HORI.)  
(TBFV) = TO BE FIELD VERIFIED

REV.	DATE	BY:	DESCRIPTION

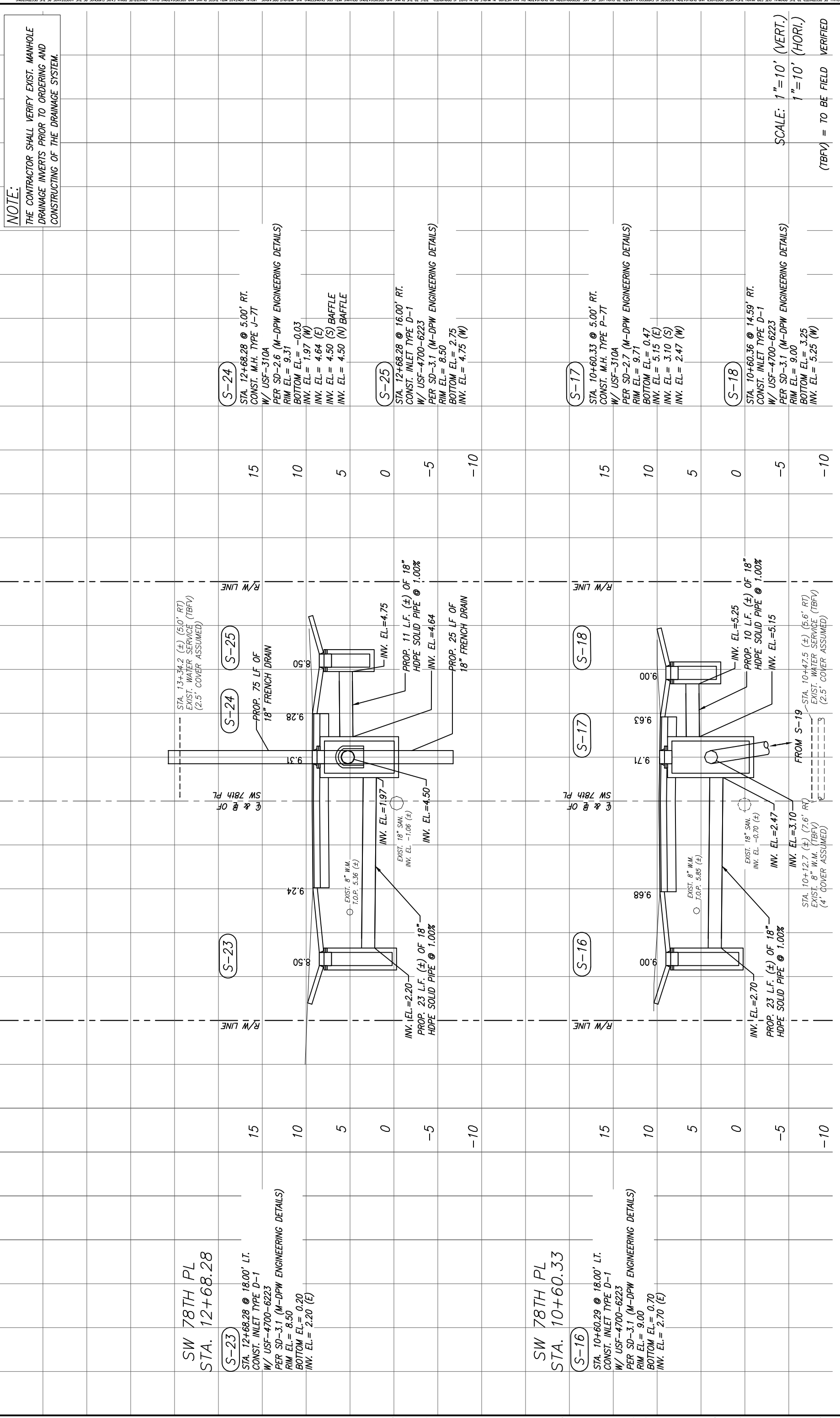
DESIGNED BY: C.B.	SEAL:	CUTLER BAY TOWN HALL	CUTLER BAY - ROADWAY & DRAINAGE IMPROVEMENTS AREA # 4	SCALE: AS SHOWN
DRAWN BY: C.B.	PROJECT NO.: 2151	10720 CARIBBEAN BOULEVARD		
CHECKED BY: J.C.F.	DATE: 12/6/2023	CUTLER BAY, FL 33189	DRAINAGE STRUCTURES	PROJECT NO.: 2151
DATE: 12/6/2023		PHONE: (305) 234-4262		
		FAX: (305) 234-4251		



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Miami, Florida 33152-4453  
TEL: 305-662-8887 FAX: 305-662-8858  
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EB-00007317





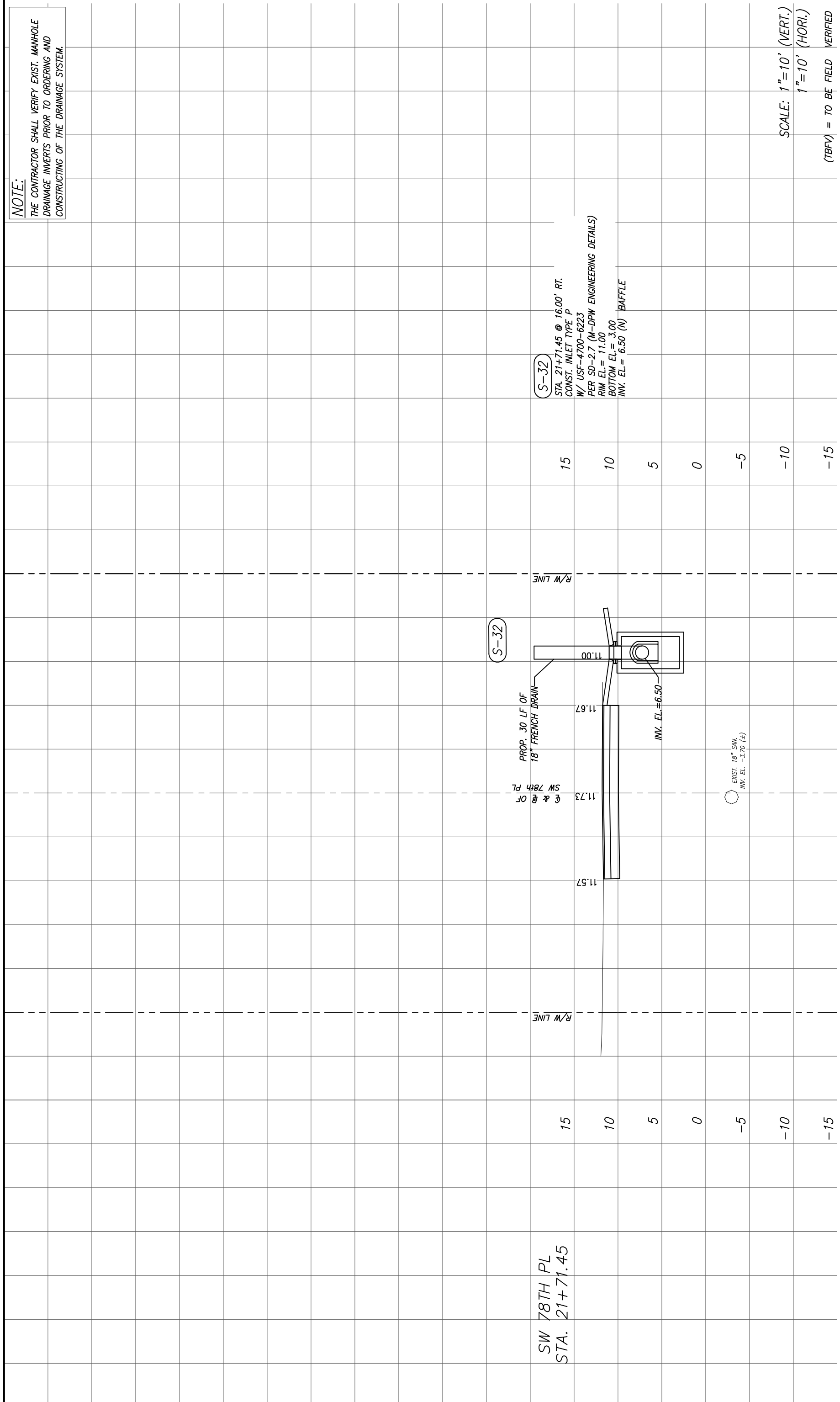
SW 78TH PL STA. 12+68.28	S-23	STA. 12+68.28 @ 18.00' LT. CONST. INLET TYPE D-1 W/ USF-4700-6223 PER SD-3.1 (M-DPW ENGINEERING DETAILS) RIM EL.= 8.50 BOTTOM EL.= 0.20 INV. EL.= 2.20 (E)	15	10	5	0	-5	-10
SW 78TH PL STA. 10+60.33	S-16	STA. 10+60.29 @ 18.00' LT. CONST. INLET TYPE D-1 W/ USF-4700-6223 PER SD-3.1 (M-DPW ENGINEERING DETAILS) RIM EL.= 9.00 BOTTOM EL.= 0.70 INV. EL.= 2.70 (E)	15	10	5	0	-5	-10
	S-24	STA. 12+68.28 @ 5.00' RT. CONST. M.H. TYPE J-7T W/ USF-310A PER SD-2.6 (M-DPW ENGINEERING DETAILS) RIM EL.= 9.31 BOTTOM EL.= -0.03 INV. EL.= 1.97 (W) INV. EL.= 4.64 (E) INV. EL.= 4.50 (S) BAFFLE INV. EL.= 4.50 (N) BAFFLE	15	10	5	0	-5	-10
	S-25	STA. 12+68.28 @ 16.00' RT. CONST. INLET TYPE D-1 W/ USF-4700-6223 PER SD-3.1 (M-DPW ENGINEERING DETAILS) RIM EL.= 8.50 BOTTOM EL.= 2.75 INV. EL.= 4.75 (W)	15	10	5	0	-5	-10
	S-17	STA. 10+60.33 @ 5.00' RT. CONST. M.H. TYPE P-7T W/ USF-310A PER SD-2.7 (M-DPW ENGINEERING DETAILS) RIM EL.= 9.71 BOTTOM EL.= 0.47 INV. EL.= 5.15 (E) INV. EL.= 3.10 (S) INV. EL.= 2.47 (W)	15	10	5	0	-5	-10
	S-18	STA. 10+60.36 @ 14.59' RT. CONST. INLET TYPE D-1 W/ USF-4700-6223 PER SD-3.1 (M-DPW ENGINEERING DETAILS) RIM EL.= 9.00 BOTTOM EL.= 3.25 INV. EL.= 5.25 (W)	15	10	5	0	-5	-10

**NOTE:**  
THE CONTRACTOR SHALL VERIFY EXIST. MANHOLE DRAINAGE INVERTS PRIOR TO ORDERING AND CONSTRUCTING OF THE DRAINAGE SYSTEM.

DESIGNED BY: C.B.	SCALE: AS SHOWN	CUTLER BAY - ROADWAY & DRAINAGE IMPROVEMENTS AREA # 4	DRAINAGE STRUCTURES
DRAWN BY: C.B.	PROJECT NO.: 2151		
CHECKED BY: J.C.F.	DWG. NO.:		
DATE: 12/6/2023	SHEET: C-16		
REV.	DATE	BY:	DESCRIPTION
5001 Southwest 74th Court, Suite 201 Miami, Florida 33152-4453 TEL: 305-662-8887 FAX: 305-662-8858 WWW.SRS-CON.COM		CUTLER BAY TOWN HALL 10720 CARIBBEAN BOULEVARD CUTLER BAY, FL 33189 PHONE: (305) 234-4262 FAX: (305) 234-4251	



**NOTE:**  
 THE CONTRACTOR SHALL VERIFY EXIST. MANHOLE  
 DRAINAGE INVERTS PRIOR TO ORDERING AND  
 CONSTRUCTING OF THE DRAINAGE SYSTEM.



**S-32**  
 STA. 21+71.45 @ 16.00' RT.  
 CONST. INLET TYPE P  
 W/ USF-4700-6223  
 PER SD-2.7 (M-DPW ENGINEERING DETAILS)  
 RIM EL.= 11.00  
 BOTTOM EL.= 3.00  
 INV. EL.= 6.50 (N) BAFFLE

**S-32**

PROP. 30 LF OF  
 18" FRENCH DRAIN  
 SW 78th PL  
 & R OF

R/W LINE

R/W LINE

SW 78TH PL  
 STA. 21+71.45

15

10

5

0

-5

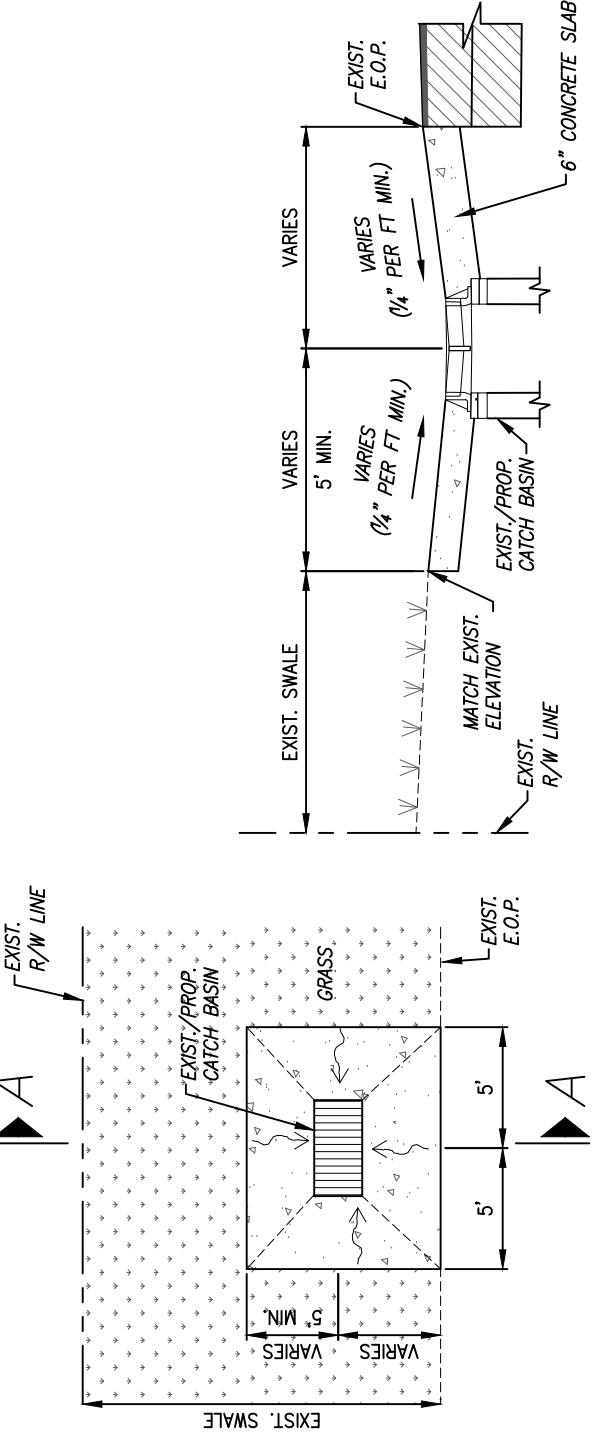
-10

-15

SCALE: 1"=10' (VERT.)  
 1"=10' (HORI.)

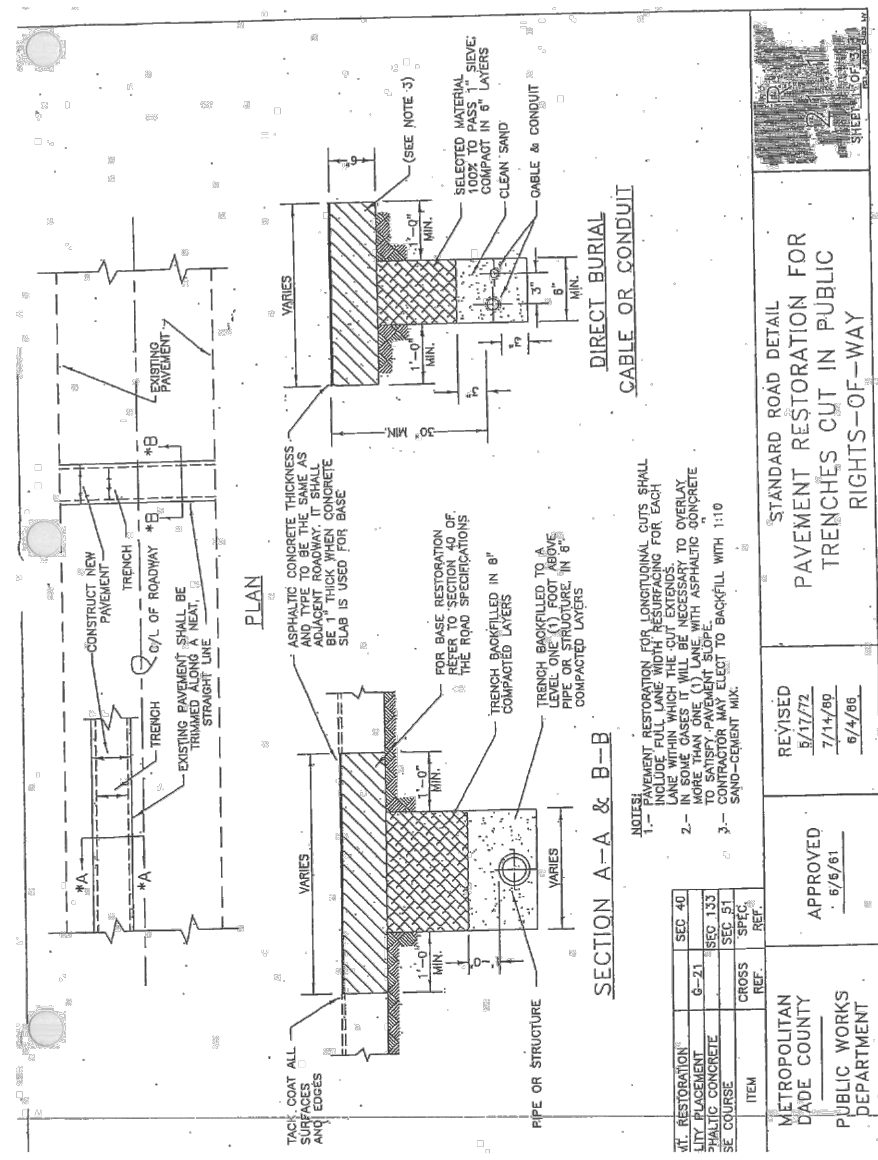
(TBFV) = TO BE FIELD VERIFIED

DESIGNED BY: C.B.	DRAWN BY: C.B.	CHECKED BY: J.C.F.	DATE: 12/6/2023	SEAL:			CUTLER BAY TOWN HALL 10720 CARIBBEAN BOULEVARD CUTLER BAY, FL 33189 PHONE: (305) 234-4262 FAX: (305) 234-4251	<b>CUTLER BAY - ROADWAY &amp;          DRAINAGE IMPROVEMENTS          AREA # 4</b>	<b>DRAINAGE STRUCTURES</b>	SCALE: AS SHOWN
										PROJECT NO.: 2151

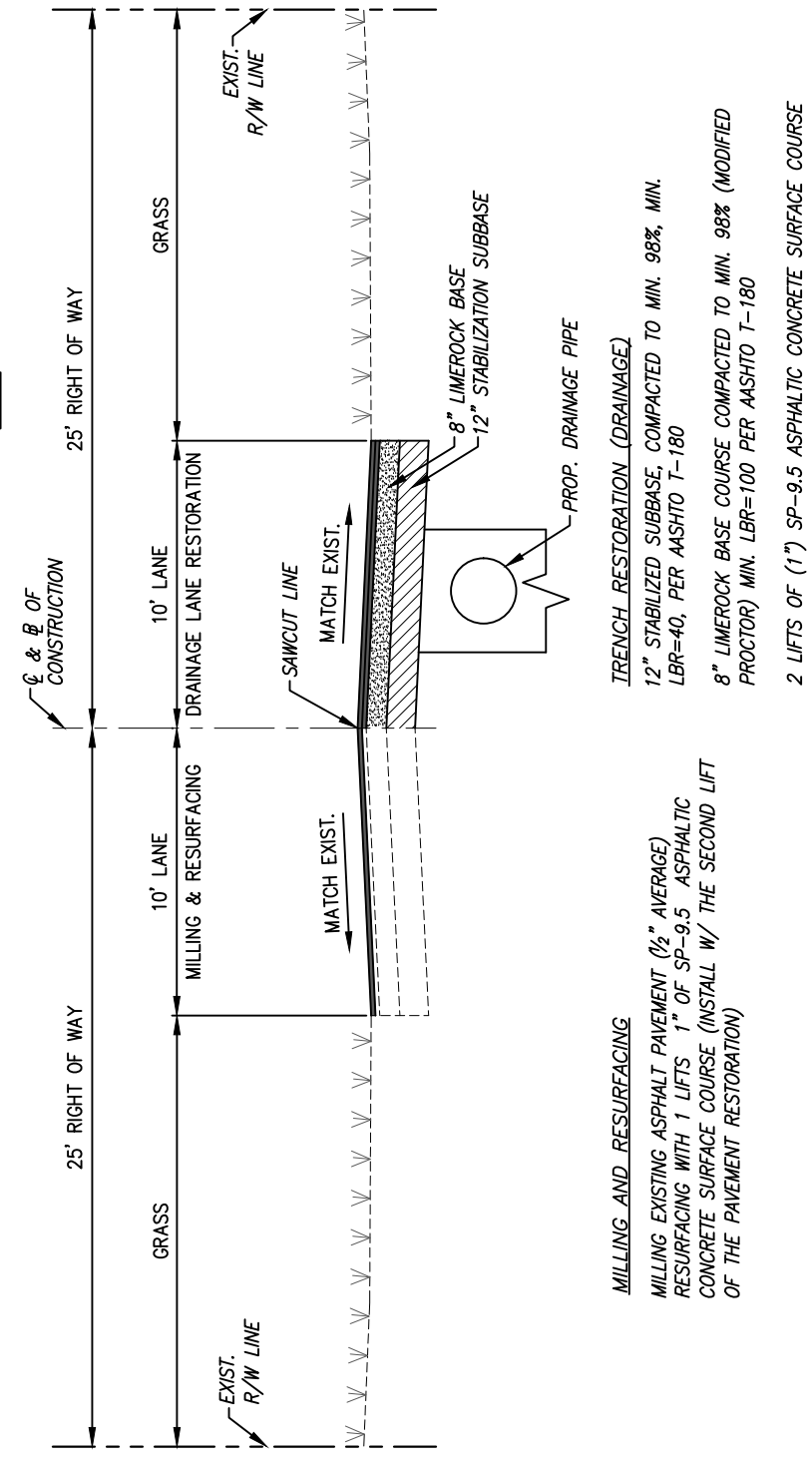


6" CONCRETE APRON DETAIL  
N.T.S.

6" CONCRETE APRON DETAIL  
N.T.S.



TYPICAL SECTION (SW 185th TER)  
N.T.S.



TYPICAL SECTION (SW 78th PL)  
N.T.S.

PAVEMENT RESTORATION FOR TRENCHES CUT IN PUBLIC  
R/W (R-21.1 M-DPW STANDARD DETAILS)

ITEM	REF.	CROSS SPEC.	REF.
1. RESTORATION	6-21	SEC. 40	
2. ASPHALTIC CONCRETE	SEC. 51	SEC. 133	
3. COURSE			

NOTES:  
1.- PAVEMENT RESTORATION FOR LONGITUDINAL CUTS SHALL INCLUDE FULL LANE WIDTH RESURFACING FOR EACH LANE WITHIN WHICH THE CUT EXTENDS.  
2.- IN SOME CASES, (1) LANE WITH ASPHALTIC CONCRETE TO SATISFY PAVEMENT SLOPE.  
3.- SAND-CEMENT MIX.

STANDARD ROAD DETAIL  
PAVEMENT RESTORATION FOR  
TRENCHES CUT IN PUBLIC  
RIGHTS-OF-WAY

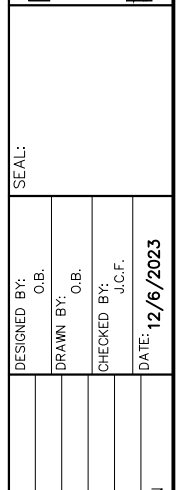
APPROVED  
8/9/61

REVISED  
8/17/72  
7/14/90  
8/4/96

DESIGNED BY: C.B.	SCALE: AS SHOWN	CUTLER BAY - ROADWAY & DRAINAGE IMPROVEMENTS AREA # 4	MISCELLANEOUS DETAILS
DRAWN BY: C.B.	PROJECT NO.: 2151		
CHECKED BY: J.C.F.	DWG. NO.:		
DATE: 12/6/2023	SHEET: C-19		
REV. DATE BY: DESCRIPTION			



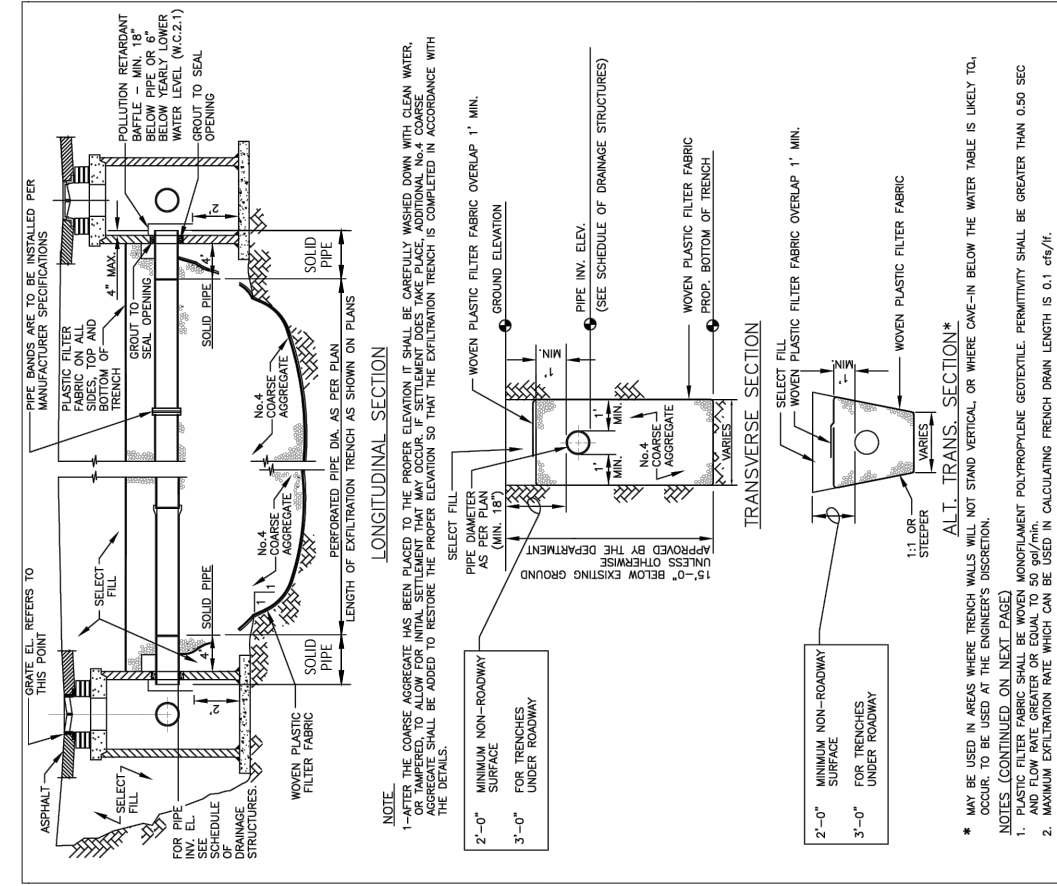
CUTLER BAY TOWN HALL  
10720 CARIBBEAN BOULEVARD  
CUTLER BAY, FL 33189  
PHONE: (305) 234-4262  
FAX: (305) 234-4251



5001 Southwest 74th Court, Suite 201  
Miami, Florida 33155-4453  
TEL: 305-662-8887 FAX: 305-662-8858  
WWW.SRS-CORP.COM







MIAMI-DADE COUNTY DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS	APPROVED 04/19/2015	REVISED 02/08/2011 09/26/2012 10/19/2012	STANDARD STORM DRAINAGE DETAIL EXFILTRATION TRENCH ( FRENCH DRAIN )	SD 1.1	SHEET 1 OF 2
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**NOTES. CONTINUED**

- THE MINIMUM PIPE DIAMETER FOR DRAINAGE SYSTEM WITHIN THE ROADWAY RIGHT-OF-WAY SHALL BE 18 INCHES. 15 INCH PIPE MAY BE USED IN PRIVATE ROADWAYS.
- NO TREES TO BE PLANTED WITHIN 5 FEET OF THE EDGE OF THE TRENCH.
- TYPE "P" S.D. 2.6 STRUCTURE IS RECOMMENDED FOR SMALL DRAINAGE AREAS LESS THAN 0.2 ACRE PER CATCH BASIN.
- ALL INVERTS OF PERFORATED PIPES TO BE AT MEAN HIGH OCTOBER WATER TABLE W.C. 2.2.
- ALL INVERTS OF PERFORATED PIPES TO BE AT MEAN HIGH OCTOBER WATER TABLE W.C. 2.2.
- REQUIRED CURB COVERED FOR BAFFLES ON ALL CONTACT EDGES MOUNTED ON WALL.
- REQUIRED CURB COVERED FOR BAFFLES ON ALL CONTACT EDGES MOUNTED ON WALL.
- OIL AND GREASE BAFFLE IS REQUIRED FOR ALL DRAINAGE STRUCTURES PRECEDING AN OUTFALL OR EXFILTRATION TRENCHES. IN PROJECTS LOCATED IN WELLFIELD PROTECTION AREAS, ROAD INTERSECTIONS WITH TRAFFIC LIGHTS, AND LARGE PARKING LOTS WHICH REQUIRE OIL AND GREASE BAFFLES.
- OIL AND GREASE BAFFLE MAY BE WAIVED IN SUBURBAN RESIDENTIAL AREAS.

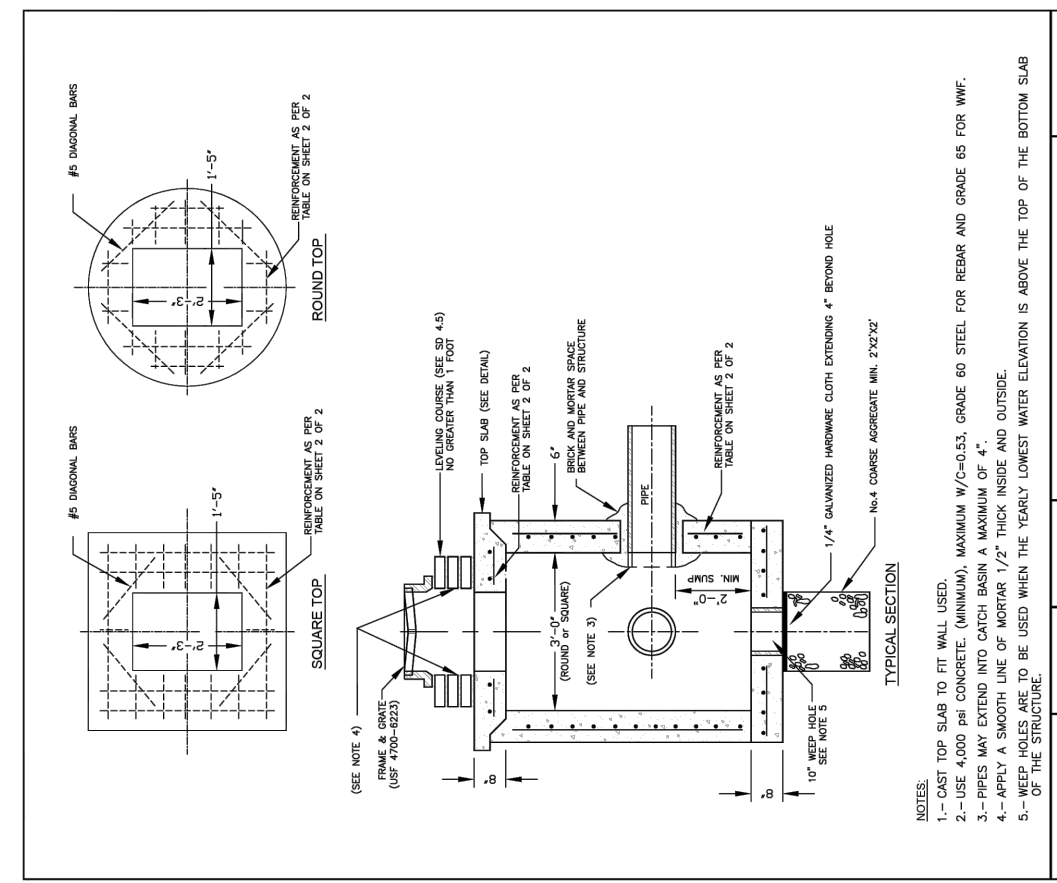
**GENERAL NOTES FOR PIPE CULVERTS**

CONTRACTOR HAS THE OPTION OF INSTALLING ANY PIPE MEETING THE REQUIREMENTS OF SECTION 443-2 OF THE FDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION AS LONG AS THE MANUFACTURER IS LISTED, AT THE TIME OF PIPE INSTALLATION, IN FOOT'S LIST OF PRODUCERS WITH ACCEPTED QUALITY CONTROL PROGRAMS. PIPES WITH LESS THAN A 100-YEAR CERTIFICATION CANNOT BE USED ON SECTION LINE, HALF SECTION LINE, COLLECTOR ROADWAYS, AND ARTERIALS. 50-YEAR PIPE CERTIFICATION REQUIRED FOR ALL OTHER MINOR/LOCAL ROADWAYS.

PIPE DIAMETER (inches)	OUTER SHELL No. of 3/8" Dia. Holes (PER LIN. FT. OF PIPE)	LINER No. of 3/8" Dia. Holes (PER LIN. FT. OF PIPE)
15	100	50
18	120	60
24	160	80
30	200	100
36	240	120
42	275	140
48	315	150
54	355	180
60	395	200
72	470	235
84	550	275

**NOTE:**  
 PERFORATIONS SHALL BE UNIFORMLY SPACED AROUND THE FULL PERIPHERY OF THE PIPE TO WITHIN 4" OF EACH END OF EACH LENGTH OF PIPE. THE NUMBER OF PERFORATIONS PER LINEAR FOOT OF PIPE AND THE DIAMETER OF THE PERFORATIONS SHALL BE AS SHOWN ON THE ABOVE TABLE.

MIAMI-DADE COUNTY DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS	APPROVED 04/19/2015	REVISED 08-04-86 10-22-13 05-02-81	STANDARD STORM DRAINAGE DETAIL EXFILTRATION TRENCH ( PIPE CULVERT NOTES )	SD 1.1	SHEET 2 OF 2
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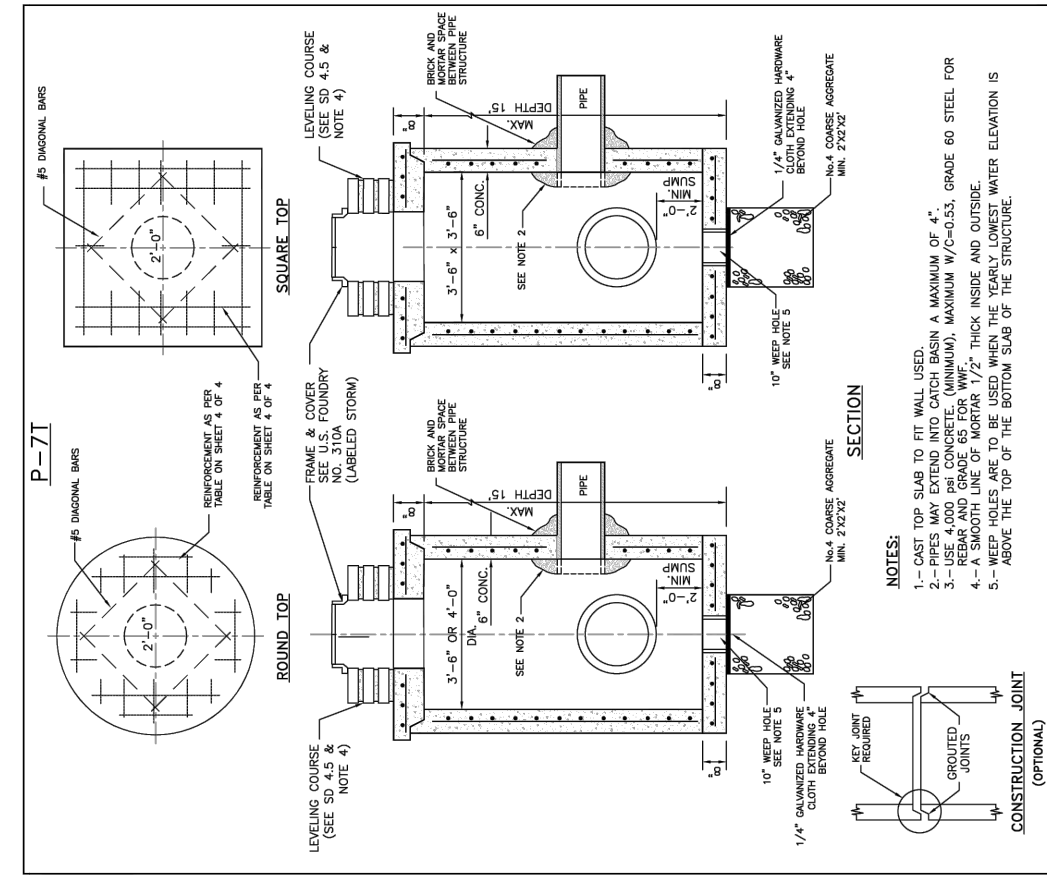


MIAMI-DADE COUNTY DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS	APPROVED 5/9/2018	REVISED 5/9/2018 8/16/2013 9/26/2013 2/8/2011 3/7/1981	STANDARD STORM DRAINAGE DETAIL PRECAST CATCH BASIN (D-3)	SD 2.2	SHEET 1 OF 2
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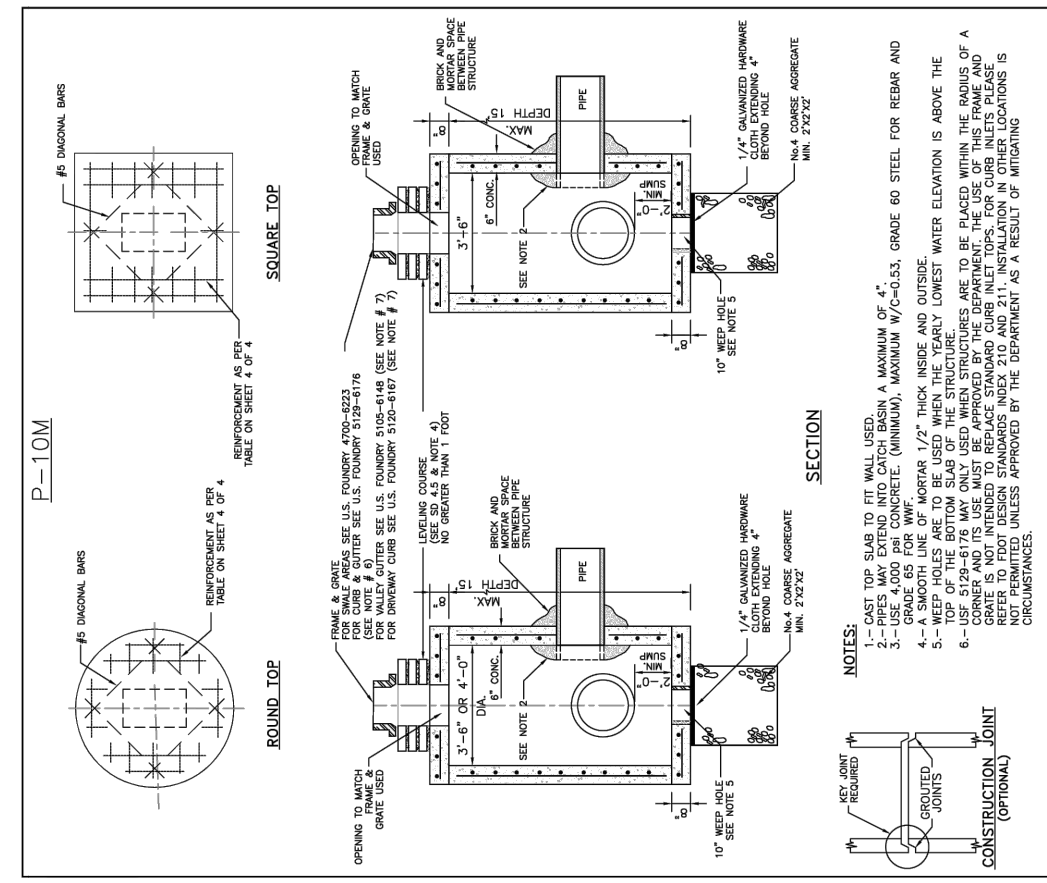
DESIGNED BY: C.B.	SCALE: AS SHOWN	CUTLER BAY - ROADWAY & DRAINAGE IMPROVEMENTS AREA # 4	MISCELLANEOUS DETAILS
DRAWN BY: C.B.	PROJECT NO.: 2151		
CHECKED BY: J.C.F.	DWG. NO.:	CUTLER BAY TOWN HALL	
DATE: 12/6/2023		10720 CARIBBEAN BOULEVARD	
REV. DATE BY: DESCRIPTION		CUTLER BAY, FL 33189	
		PHONE: (305) 234-4262	
		FAX: (305) 234-4251	
		5001 Southwest 74th Court, Suite 201 Miami, Florida 33155-4453 TEL: 305-662-8887 FAX: 305-662-8858 WWW.SRS-CORP.COM	
		EB-00007317 CONSULTING ENGINEERS	







MIAMI-DADE COUNTY DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS	APPROVED 5/9/2018	REVISD 5/9/2018	STANDARD STORM DRAINAGE DETAIL MANHOLE AND INLET (TYPE P)	SD 2.7	SHEET 1 OF 4
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MIAMI-DADE COUNTY DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS	APPROVED 5/9/2018	REVISD 5/9/2018	STANDARD STORM DRAINAGE DETAIL MANHOLE AND INLET (TYPE P)	SD 2.7	SHEET 2 OF 4
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**SQUARE STRUCTURE**

Standard Detail	Width (ft)	Length (ft)	Height (ft)	Wall Thickness (in)	Top Slab Thickness (in)	Top Slab Steel	Bottom Slab Thickness (in)	Bottom Slab Steel
2.7	3.5	3.5	0.0 - 5.0	6.0	8.0	#4@7" E.W.	8.0	#4@10" E.W.
2.7	3.5	3.5	5.1 - 10.0	6.0	8.0	#4@6" E.W.	8.0	#4@10" E.W.
2.7	3.5	3.5	10.1 - 15.0	6.0	8.0	#4@6.5" E.W.	8.0	#4@10" E.W.

**ROUND STRUCTURE**

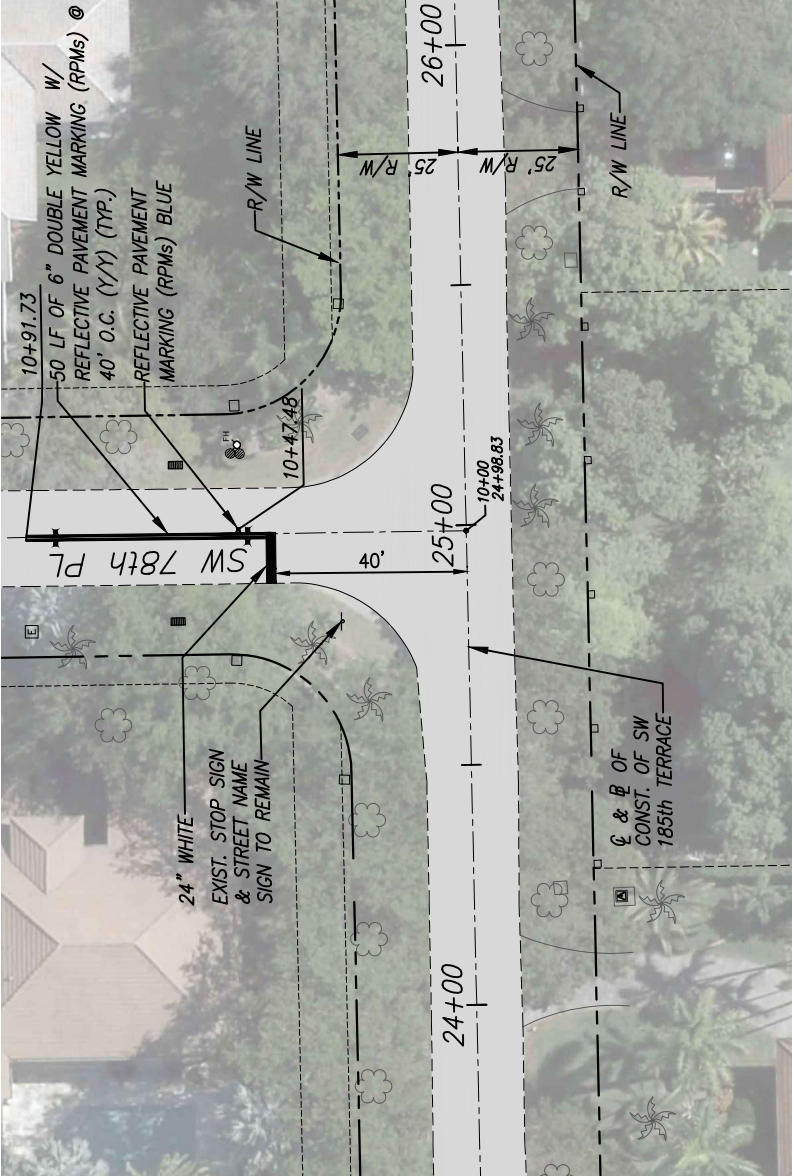
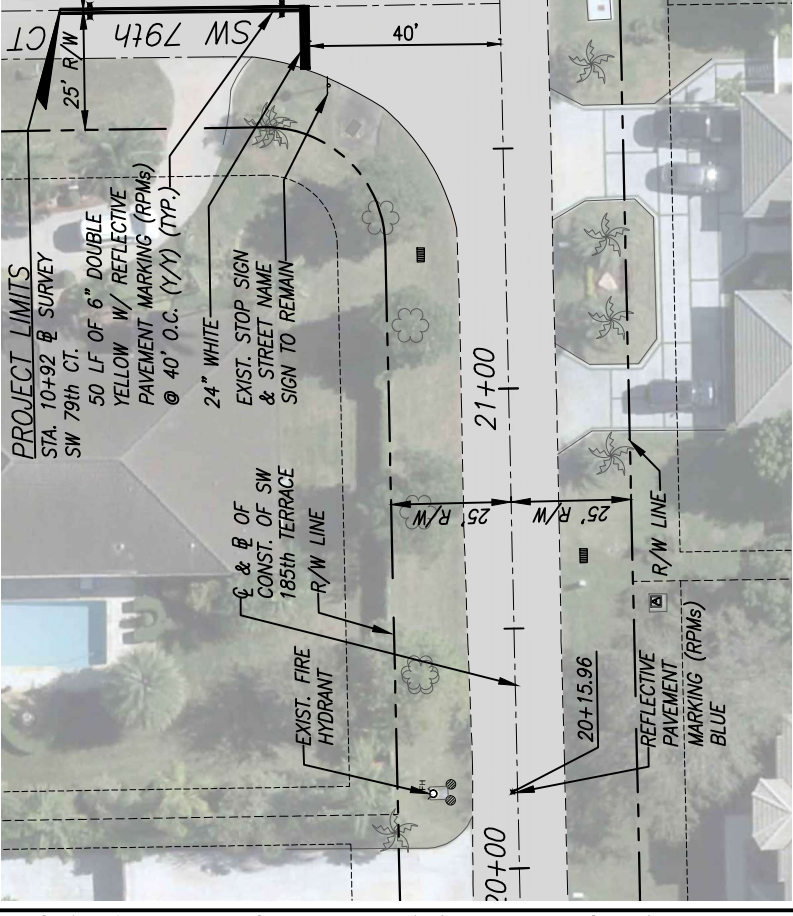
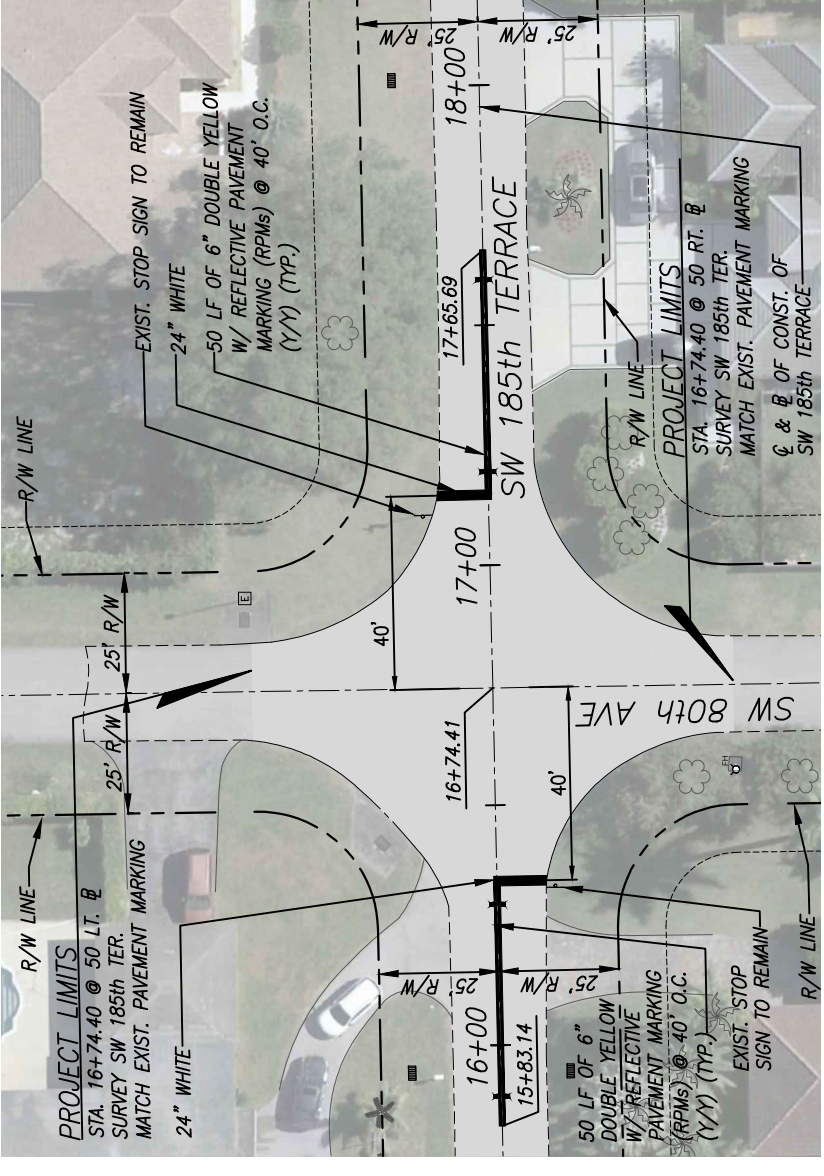
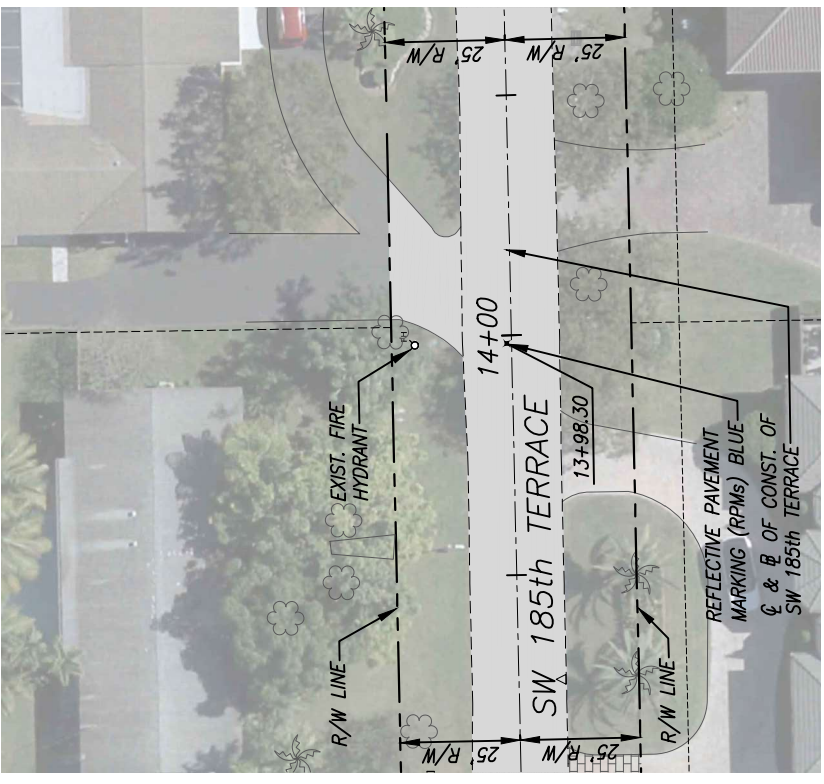
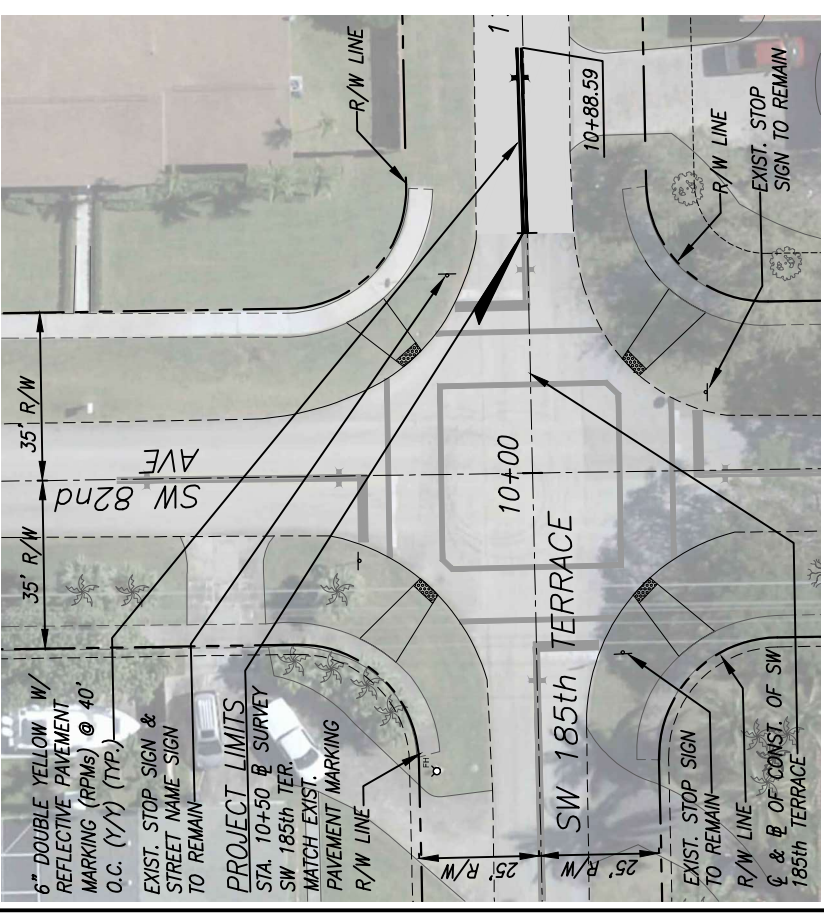
Standard Detail	Dia. (ft)	Height (ft)	Wall Thickness (in)	Top Slab Thickness (in)	Top Slab Steel	Bottom Slab Thickness (in)	Bottom Slab Steel
2.7	3.5	4.0	0.0 - 5.0	8.0	#4@7" E.W.	8.0	#4@10" E.W.
2.7	3.5	4.0	5.1 - 10.0	8.0	#4@6" E.W.	8.0	#4@10" E.W.
2.7	3.5	4.0	10.1 - 15.0	8.0	#4@6.5" E.W.	8.0	#4@10" E.W.

MIAMI-DADE COUNTY DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS	APPROVED 5/9/2018	REVISD 5/9/2018	STANDARD STORM DRAINAGE DETAIL MANHOLE AND INLET (TYPE P)	SD 2.7	SHEET 4 OF 4
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DESIGNED BY: C.B.	DRAWN BY: C.B.	CHECKED BY: J.C.F.	DATE: 12/6/2023	SEAL:	
REV.	DATE	BY:	DESCRIPTION	CUTLER BAY - ROADWAY & DRAINAGE IMPROVEMENTS AREA # 4	
				CUTLER BAY TOWN HALL 10720 CARIBBEAN BOULEVARD CUTLER BAY, FL 33189 PHONE: (305) 234-4262 FAX: (305) 234-4251	
				MISCELLANEOUS DETAILS	
				SCALE: AS SHOWN PROJECT NO.: 2151 DWG. NO.: SHEET: C-23	





ITB #24-02  
 BEL AIRE, EUREKA DRIVE ESTS, CUTLER COUNTRY GROVES, ALLOM ESTS, AND SOUTH GROVE WATER QUALITY IMPROVEMENT PROJECT  
 Page 380 of 383

REV.	DATE	BY:	DESCRIPTION

DESIGNED BY:	C.B.
DRAWN BY:	C.B.
CHECKED BY:	J.C.F.
DATE:	12/6/2023

SEAL:

5001 Southwest 74th Court, Suite 201  
 Miami, Florida 33152-4453  
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CUTLER BAY TOWN HALL  
 10720 CARIBBEAN BOULEVARD  
 CUTLER BAY, FL 33189  
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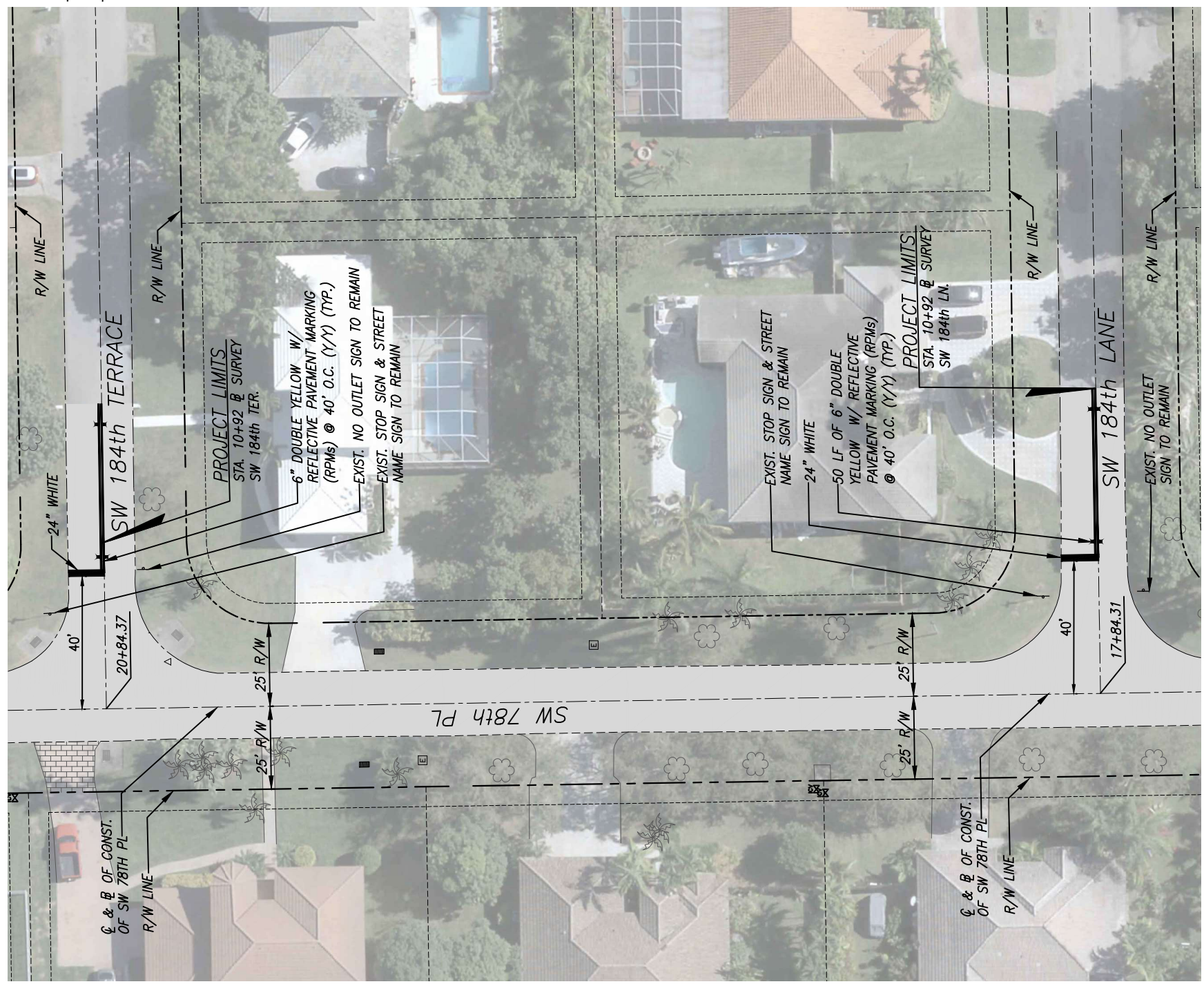
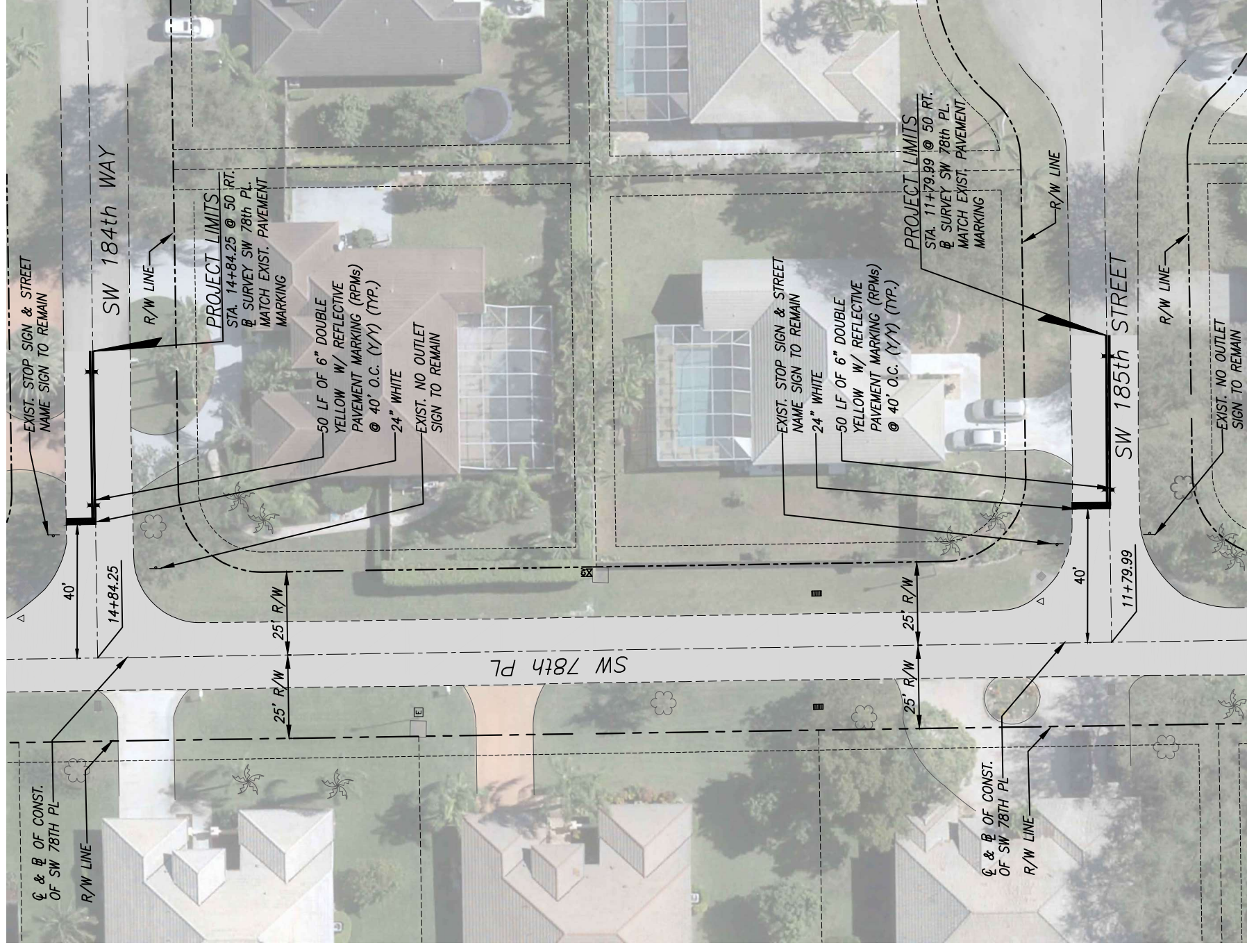
## CUTLER BAY - ROADWAY & DRAINAGE IMPROVEMENTS AREA # 4

PAVEMENT MARKING AND SIGNAGE PLANS

SCALE: AS SHOWN  
 PROJECT NO.: 2151  
 DWG. NO.:  
 SHEET: C-24

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DRAWN BY:	C.B.
CHECKED BY:	J.C.F.
DATE:	12/6/2023

SEAL:

5001 Southwest 74th Court, Suite 201  
 Miami, Florida 33155-4453  
 TEL: 305-662-8887 FAX: 305-662-8858  
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INFORMED. PLANNED. PROGRESS.

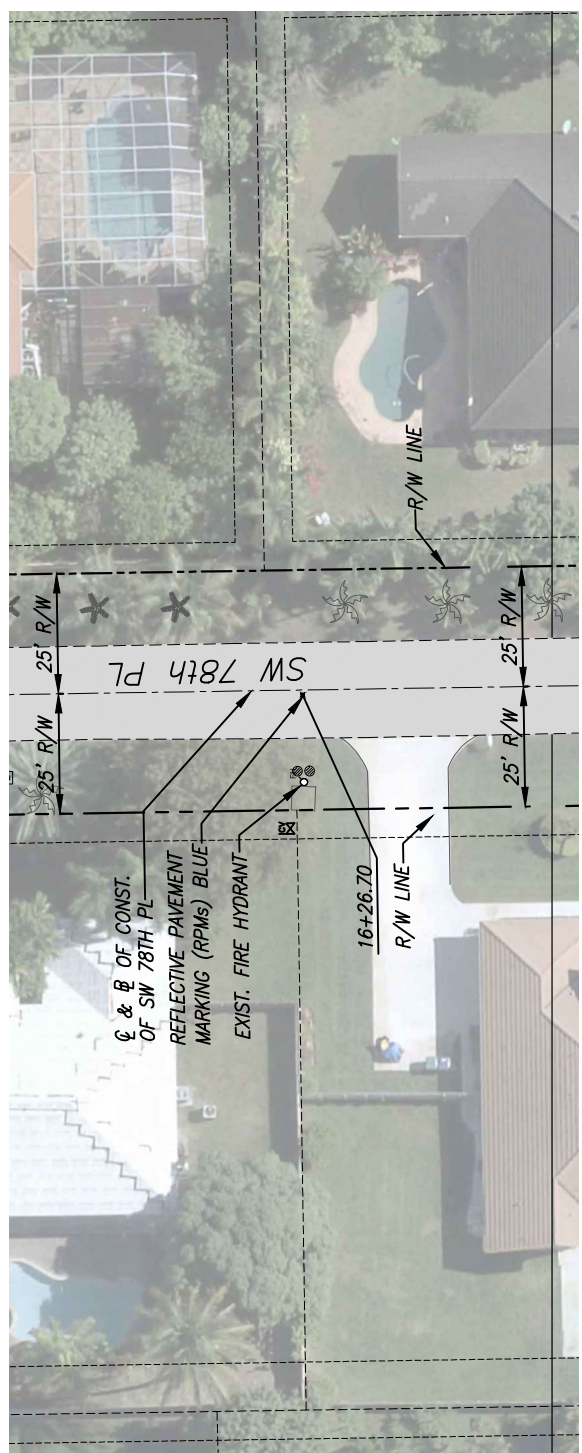
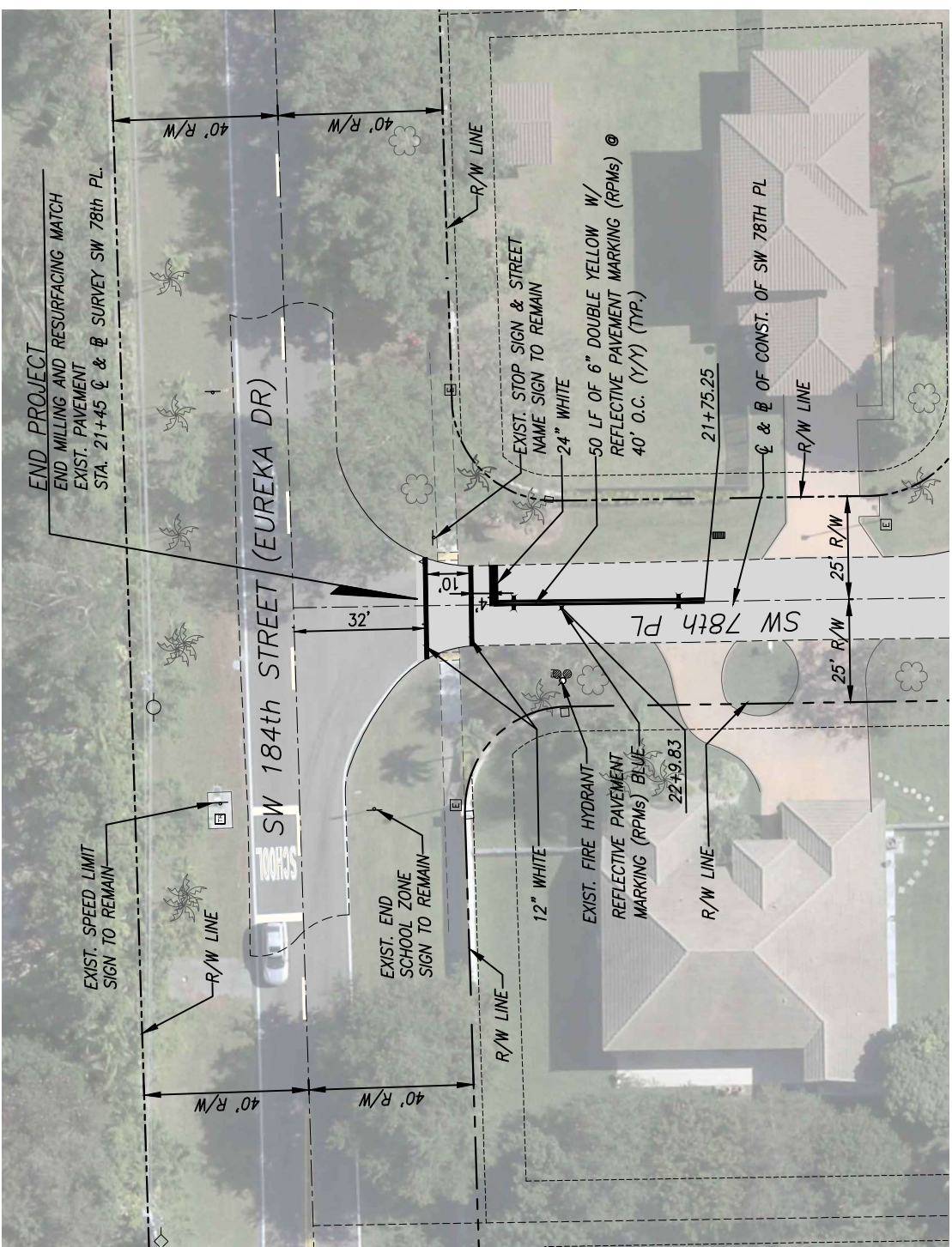
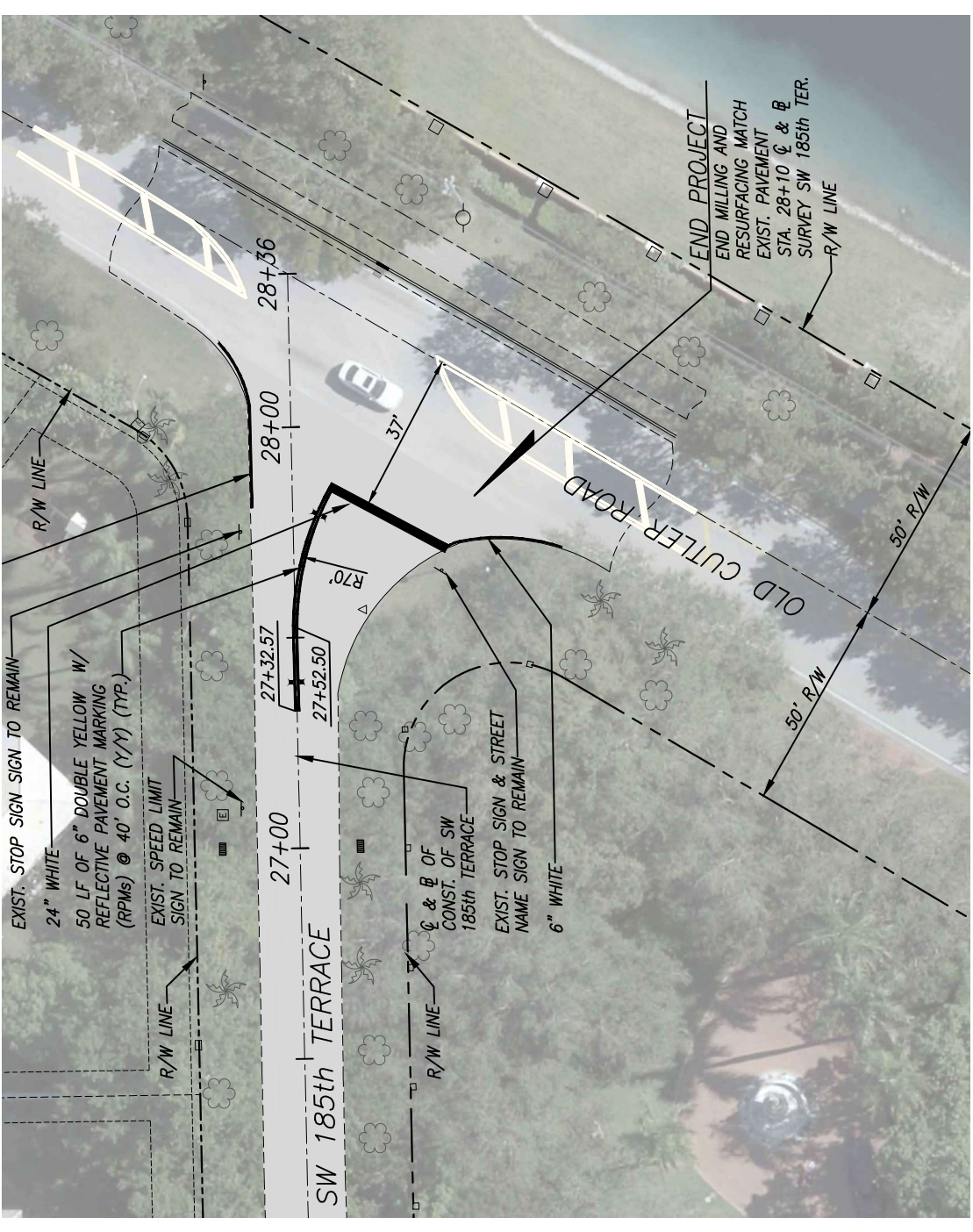
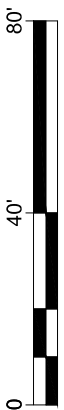
CUTLER BAY TOWN HALL  
 10720 CARIBBEAN BOULEVARD  
 CUTLER BAY, FL 33189  
 PHONE: (305) 234-4262  
 FAX: (305) 234-4251

## CUTLER BAY - ROADWAY & DRAINAGE IMPROVEMENTS AREA # 4

PAVEMENT MARKING AND SIGNAGE PLANS

SCALE:	AS SHOWN
PROJECT NO.:	2151
DWG. NO.:	SHEET: C-25





REV.	DATE	BY:	DESCRIPTION
DESIGNED BY:	C.B.		
DRAWN BY:	C.B.		
CHECKED BY:	J.C.F.		
DATE:	12/6/2023		
SEAL:			
<small>5001 Southwest 74th Court, Suite 201 Miami, Florida 33155-4453 TEL: 305-662-8887 FAX: 305-662-8858 WWW.SRS-CON.COM</small>			
<small>CUTLER BAY TOWN HALL 10720 CARIBBEAN BOULEVARD CUTLER BAY, FL 33189 PHONE: (305) 234-4262 FAX: (305) 234-4251</small>			
<b>CUTLER BAY - ROADWAY &amp; DRAINAGE IMPROVEMENTS AREA # 4</b>			
<b>PAVEMENT MARKING AND SIGNAGE PLANS</b>			
SCALE:	AS SHOWN		
PROJECT NO.:	2151		
DWG. NO.:	SHEET: C-26		

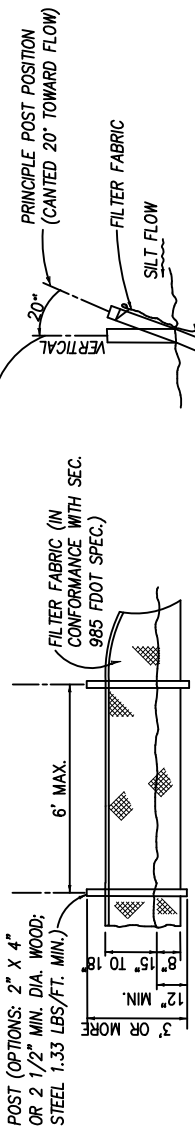
I:\Projects\2021\2151 - Cutler Bay Drainage Sub-Basins Roadway Improvements\Area 4 Design\FigE\_24\_26\_Plan (Area 4).dwg - Plot Date: 4.8.2019

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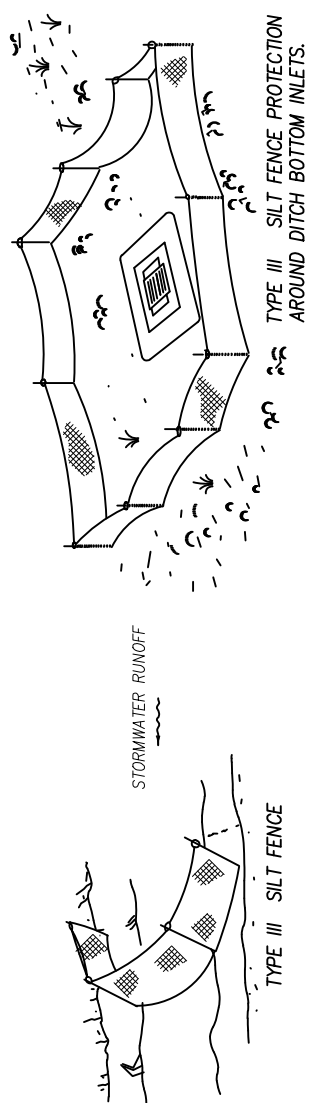
NOTES FOR SYNTHETIC BALES OR BALE TYPE BARRIERS

1. TYPE I AND II SYNTHETIC BARRIER SHOULD BE SPACED IN ACCORDANCE WITH CHART 1, SHEET 1 PER INDEX 102.
2. BALES SHALL BE ANCHORED WITH 2-1" X 2" (OR 1" DIA.) X 4' WOOD STAKES. STAKES OF OTHER MATERIAL OR SHAPE PROVIDING EQUIVALENT STRENGTH MAY BE USED IF APPROVED BY THE ENGINEER. STAKES OTHER THAN WOOD SHALL BE REMOVED UPON COMPLETION OF THE PROJECT.
3. RAILS AND POSTS SHALL BE 2" X 4" WOOD. OTHER MATERIALS PROVIDING EQUIVALENT STRENGTH MAY BE USED IF APPROVED BY THE ENGINEER.
4. ADJACENT BALES SHALL BE BUTTED FIRMLY TOGETHER.
5. WHERE USED IN CONJUNCTION WITH SILT FENCE, BALES SHALL BE PLACED ON THE UPSTREAM SIDE OF THE FENCE.



SILT FENCE DETAIL

N.T.S.

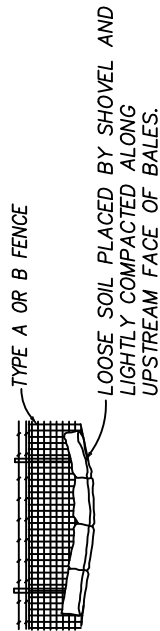


NOTES:

1. SPACING FOR TYPE III FENCE TO BE IN ACCORDANCE WITH CHART I, SHEET 1 OF 3 AND DITCH INSTALLATIONS AT DRAINAGE STRUCTURES SHEET 2 OF 3 PER FDOT STANDARD INDEX 102.
2. DO NOT DEPLOY IN A MANNER THAT SILT FENCES WILL ACT AS A DAM ACROSS PERMANENT FLOWING WATERCOURSES. SILT FENCES ARE TO BE USED AT UPLAND LOCATIONS AND TURBIDITY BARRIERS USED AT PERMANENT BODIES OF WATER.

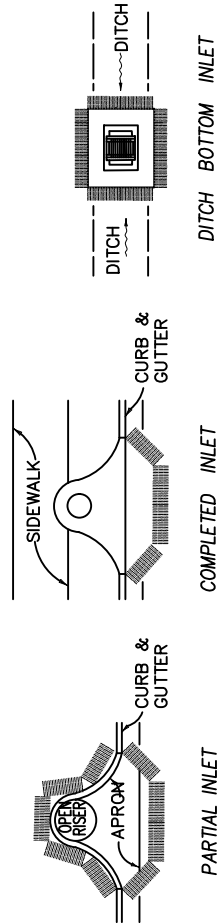
SILT FENCE APPLICATIONS

N.T.S.



BALES BACKED BY FENCE

N.T.S.



PROTECTION AROUND INLETS OR SIMILAR STRUCTURES

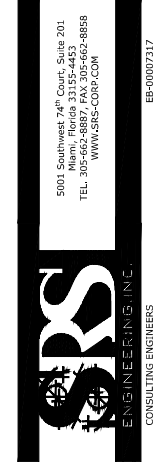
N.T.S.

STORM WATER POLLUTION PREVENTION PRACTICES:

1. TREE PROTECTION AND PRUNING SHALL BE ACCOMPLISHED AS DETAILED IN SPECIAL PROVISIONS, THE CONSTRUCTION PLANS, AND OR PER TREE ORDINANCE 12636.
2. THE STORM WATER POLLUTION PREVENTION PLAN, SWPPP, SUBMITTED TO PUBLIC WORKS, SHALL DESCRIBE IN DETAIL HOW THE CONSTRUCTION EFFORT WILL BE PHASED WITH REGARDS TO MINIMIZING EROSION PROBLEMS BY THE USE OF TEMPORARY AND PERMANENT EROSION CONTROL MEASURES, FOR THE VARIOUS SEQUENCES OF CONSTRUCTION OPERATIONS. ANY MODIFICATIONS MUST BE APPROVED BY THE TOWN OF CUTLER BAY - NPDES SECTION, DEPARTMENT OF PUBLIC WORKS.
3. ENVIRONMENTAL CONTROL FEATURES AS PROVIDED IN THE SWPPP, ARE TO BE INSTALLED AT ALL AREAS OF EXCAVATION OR FILL FOR DRAINAGE SYSTEM, OR STRUCTURE CONSTRUCTION PRIOR TO SUCH EXCAVATION OR FILL. INLET ENTRANCES ARE ALSO TO BE PROTECTED FROM SILTATION
4. ALL ENVIRONMENTAL CONTROL FEATURES ARE TO BE MAINTAINED THROUGHOUT THE LIFE OF THE PROJECT IN ACCORDANCE WITH N.P.D.E.S. REQUIREMENTS. THE CONTRACTOR MUST INSURE THAT ALL EROSION CONTROL FEATURES FUNCTION PROPERLY AT ALL TIMES.
5. ALL EROSION AND MATERIAL DEPOSITS MUST BE CONTAINED WITHIN THE PROJECT LIMITS.
6. ANY DAMAGED OR INEFFECTIVE ROCK BAGS ARE TO BE REPLACED WITH NEW ONES. THE LOCATION OF ROCK BAGS INSTALLATION IS AS MENTIONED IN THE SWPPP PLANS. THE PROJECT ENGINEER MAY SPECIFY OTHER AREAS AS NECESSARY.
7. DITCH BOTTOM INLETS SHALL BE PROTECTED FROM SEDIMENT INTAKE UNTIL PROJECT IS COMPLETE. ELEVATION OF GROUND OUTSIDE INLET TOP SHALL NOT BE HIGHER THAN INLET TOP. ROCK BAGS SHALL BE INSTALLED AROUND INLET TOP. COMPLETED INLETS IN PAVED AREAS SHALL ALSO BE PROTECTED WITH ROCK BAGS TO PREVENT SEDIMENT INTAKE.
8. CURB INLETS ALSO SHALL BE PROTECTED FROM SEDIMENT INTAKE UNTIL THE PROJECT IS COMPLETE. ALL EXPOSED SLOPED MATERIAL ADJACENT TO INLET, SHALL BE COVERED WITH EROSION CONTROL MATTING WITH OUTER LIMITS PROTECTED BY ROCK BAGS.
9. STOCKPILED MATERIAL SHALL NOT BE LEFT IN EROSION PRONE AREAS UNLESS PROTECTED BY COVER OR ROCK BAGS.
10. INSPECTION OF EROSION CONTROL MEASURES AND CONDITION OF ADJACENT PROPERTIES, SHALL BE PERFORMED DAILY BY THE CONTRACTOR'S REPRESENTATIVE AND THE PROJECT ENGINEER. DEFICIENCIES SHALL BE NOTED AND CORRECTED.
11. ANY OFFSITE SEDIMENT DISCHARGE TO A MUNICIPAL SEPARATE STORM WATER SYSTEM ARISING FROM THE CONTRACTOR'S ACTIVITIES IS NOT ALLOWED.
12. THE USE OF SANITARY SEWERS, FRENCH DRAINS, COVER DITCHES AND/OR ROCK DRAINS FOR THE DISPOSAL OF WASTEWATER IS EXPRESSLY PROHIBITED.

STORM WATER POLLUTION PREVENTION PLAN (SWPPP) CHECKLIST

- A. SEQUENCE OF SOIL DISTURBING ACTIVITIES AND IMPLEMENTATION OF CONTROLS:
1. CLEAR & GRUBBING
  2. INSTALL DRAINAGE STRUCTURES
  3. STABILIZATION
  4. BASE PREPARATION
  5. ASPHALT APPLICATION
  6. PLACEMENT OF ROCK BAGS AROUND INLETS
  7. APPLICATION OF ROCK BAGS AROUND MANHOLES
  8. APPLICATION OF FRICTION COURSE A.C.
  9. INSTALLATION OF STREET SIGNING
  10. PAVEMENT MARKING
  11. REMOVE ROCK BAGS
  12. CLEAN ALL CONSTRUCTION DEBRIS FROM CONSTRUCTION SITE
- B. GENERAL
1. APPROVED STATE, LOCAL PLANS OR STORM WATER PERMITS.
  2. ALL OF THE CONTROLS SHALL BE MAINTAINED AT ALL TIMES.
  3. ALL CONTROLS SHALL BE INSPECTED DAILY.
  4. APPLY FERTILIZERS AND PESTICIDES ACCORDING TO STANDARD SPECIFICATIONS, DESIGN AND SPECIAL PROVISIONS.
  5. REPORT NON-STORM WATER DISCHARGE (INCLUDING SPILL) 305) 416-1200.
  6. VISIT WWW.DEP.STATE.FL.US/WATER/STORMWATER/NPDES/



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DRAWN BY:	C.B.
CHECKED BY:	J.C.F.
DATE:	12/6/2023

REV.	DATE	BY:	DESCRIPTION

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TOWN HALL  
10720 CARIBBEAN  
BOULEVARD  
CUTLER BAY, FL 33189  
PHONE: (305) 234-4262  
FAX: (305) 234-4251



**CUTLER BAY - ROADWAY & DRAINAGE IMPROVEMENTS AREA # 4**

**STORMWATER POLLUTION PREVENTION PLAN NOTES & DETAILS**

SCALE: AS SHOWN  
PROJECT NO.: 2151  
DWG. NO.:  
SHEET: C-27