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Prepared by/please return to:
Kris Davis, Esq.
Office of General Counsel
St. Johns River Water Management District
P.O. Box 1429
Palatka, Florida 32178-1429

PERPETUAL ACCESS EASEMENT AGREEMENT

THIS PERPETUAL ACCESS EASEMENT AGREEMENT (Easement Agreement) is granted this 12 day of May, 2020, (Effective Date), by **MELBOURNE SQUARE, LLC**, an Indiana limited liability company, whose mailing address is 180 E. Broad Street, 21st Floor, Columbus, OH 43215 (Grantor), to the **ST. JOHNS RIVER WATER MANAGEMENT DISTRICT**, a public body existing under Chapter 373, Florida Statutes, whose address is 4049 Reid Street, Palatka, Florida 32177 (Grantee).

RECITALS

A. Grantor owns certain real property located in Brevard County, Florida, as more particularly described on Exhibit “A”, attached hereto and incorporated herein by reference (Grantor’s Property); and

B. Grantee is constructing the Crane Creek/M-1 Canal Flow Restoration Project (Project) to reduce nitrogen and phosphorus in the Indian River Lagoon and to restore historic drainage patterns.

C. As part of the Project, an operable weir structure (Weir) will be constructed within a portion of the Crane Creek M-1 Canal within a Brevard County right-of-way and adjacent to Grantor’s Property, as depicted on Exhibit “B” attached hereto and incorporated herein by reference (Weir Location).

D. In order to construct, operate, maintain, repair and replace the Weir, Grantee desires a perpetual access easement for ingress and egress to the Weir Location across that portion of

Grantor's Property described and depicted on Exhibit "C" attached hereto and incorporated herein by reference (Easement Area), and Grantor has agreed to grant the District an access easement for those purposes.

NOW THEREFORE, Grantor, in consideration of the sum of Ten Dollars (\$10.00) and the mutual covenants and promises hereinafter contained, and other good and valuable considerations, the receipt of which is hereby acknowledged, grants and conveys to Grantee a perpetual non-exclusive access easement for the purposes of ingress and egress access over, under, through, upon and across the Easement Area as set forth herein.

1. RECITALS and EXHIBITS. The foregoing recitals and the attached exhibits are true and correct and are incorporated herein by this reference.

2. GRANT OF PERPETUAL ACCESS EASEMENT. Grantor grants to Grantee, its agents, representatives, employees, and contractors, a perpetual, non-exclusive access easement over, under, through, upon and across the Easement Area for ingress and egress access to the Weir Location to construct, operate, maintain, repair and replace the Weir and to conduct such other activities as set forth in this Easement Agreement. Grantor warrants to Grantee that Grantor is lawfully seized of the real property described in Exhibit "C" and that it has the power and authority to grant this Easement Agreement and the uses granted herein. Grantor retains the right to use the Easement Area in any manner not inconsistent with the rights granted to Grantee.

3. CONSIDERATION. Following completion of construction of the Weir and removal of Project-related construction equipment and materials, as consideration for Grantor entering into this Easement Agreement, Grantee agrees to repair or replace the following materials within the Easement Area that may have been damaged by Grantee's activities: (i) asphalt surfaces, (ii) stormwater fencing, (iii) landscaping and; (iv) any other areas or materials mutually agreed upon by Grantor and Grantee.

4. COVENANTS RUNNING WITH THE LAND and SUCCESSORS and ASSIGNS. The rights, duties, obligations and easements set forth in this Easement Agreement

shall run with the land and shall bind and burden Grantor's Property in perpetuity. This Easement Agreement shall be binding upon and shall inure to the benefit of the parties specified herein, and their successors, assigns and legal representatives.

5. NON-WAIVER OF GRANTEE'S REGULATORY POWERS. Nothing contained in this Easement Agreement shall be construed as a waiver of or contract with respect to the regulatory and permitting authority of the Grantee as it now or hereafter exists under applicable laws, rules and regulations.

6. NON-WAIVER OF SOVEREIGN IMMUNITY. Nothing contained in this Easement Agreement shall be construed or interpreted as an indemnity or a waiver of any right, privilege or immunity, whether in contract or tort, that Grantee may enjoy under the doctrine of sovereign immunity, or the limitations of liability under the constitution and laws of the state of Florida, including Section 768.28, Florida Statutes, as amended from time to time, or any other law providing limitations on claims.

7. MODIFICATION. This Easement Agreement may not be modified or amended in any respect whatsoever, or rescinded, in whole or in part, except with the consent of the Grantor and Grantee and then only by a written instrument duly executed and acknowledged by Grantor and Grantee and recorded in the public records of Brevard County, Florida.

8. DURATION OF EASEMENT. This Easement Agreement shall remain in full force and effect so long as Grantee or its successor(s) and assigns continues to operate or maintain the Project. Upon termination or abandonment of the Project, Grantee shall record a notice of termination of this Easement Agreement in the Official Records of Brevard County, Florida and thereafter shall provide Grantor with a copy of the recorded notice of termination.

9. WORK WITHIN THE EASEMENT AREA. Grantee will be responsible for repairing any existing irrigation lines in the Easement Area damaged by Grantee's activities in the Easement Area. Grantee, at its expense, will perform any earthwork needed to stabilize the Easement Area for Project-related vehicular use. Grantee shall have the ability to install project

related gravel, lime rock, and temporary matting during construction and repair and replacement of the Weir as needed. Grantee will be responsible for mowing the Easement Area only during the time period the Weir is being constructed. Following Weir construction completion, Grantee will remove Project-related gravel, lime rock, and temporary matting from the Easement Area restoring the area to its condition prior to initiation of construction. Grantee will be responsible for repairing damage to the Easement Area caused by Grantee's direct use of the Easement Area, including repairing or replacing the materials set forth in paragraph 3 herein.

10. RECORDING OF EASEMENT AGREEMENT. Grantee, at its own expense, shall record the Easement Agreement in the public records of Brevard County, Florida and thereafter will provide a recorded copy of the Easement Agreement to Grantor.

11. GOVERNING LAW AND ATTORNEY'S FEES. This Easement Agreement, its validity, construction, interpretation, and enforcement, and the rights of the parties hereto shall be determined under, governed by, and construed in accordance with the laws of the State of Florida. Each party shall be responsible for its own attorney's fees and costs related to this Easement Agreement.

12. NOTICE. Any notice, demand, consent, or communication that either party may be required to give to the other hereunder shall be in writing and either served personally by hand-delivery, next-day courier delivery, or by registered or certified mail, postage prepaid, addressed as follows:

To Grantor:

Melbourne Square, LLC
180 E. Broad Street, 21st Floor
Columbus, OH 43215
Attn: General Counsel

With a copy to:

Melbourne Square, LLC
180 E. Broad Street, 21st Floor
Columbus, OH 43215
Attn: Legal Department

To Grantee:

St. Johns River Water Management District
Attn: Director, Real Estate Services Program
4049 Reid Street
Palatka, Florida 32177

13. SECTION CAPTIONS. Articles, subsections and other captions contained in this Easement Agreement are for reference purposes only and are in no way intended to describe, interpret, define, or limit the scope, extent or intent of this Easement Agreement or any provisions thereof.

14. CONSTRUCTION OF EASEMENT AGREEMENT. This Easement Agreement shall not be construed more strictly against one party than against the other merely by virtue of the fact that it may have been prepared by counsel for one of the parties.

15. PARTIAL INVALIDITY. If any term, covenant, condition or provision of this Easement Agreement shall be ruled by a court of competent jurisdiction to be invalid, void, or unenforceable, the remainder shall remain in full force and effect and shall in no way be affected, impaired or invalidated.

16. ENTIRE UNDERSTANDING. This Easement Agreement sets forth the entire understanding of the parties and shall only be amended upon written agreement of the parties.

17. EFFECTIVE DATE. The effective date of this Easement Agreement shall be the date when the last of the Grantor or the Grantee has executed the same, and that date shall be inserted at the top of the first page hereof.

18. EXECUTION. This Easement Agreement may be executed in counterparts, each of which shall be deemed an original and which taken together shall constitute one and the same instrument.

IN WITNESS WHEREOF, the parties have executed this Easement Agreement on the day and year indicated below.

[Remainder of page intentionally left blank; signature pages follow]

WITNESSES

Signed, sealed and delivered
in the presence of:

[Signature]
Signature
Michael G. Zevorcher
Print Name

[Signature]
Signature
Rene Cravens
Print Name

GRANTOR

Melbourne Square, LLC,
an Indiana limited liability company

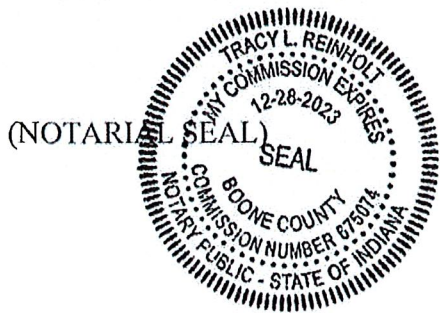
By: [Signature]

Name: Robert P. Demchak

Its: Executive Vice President
General Counsel & Corporate Secretary

STATE OF Indiana
COUNTY OF Marion

The foregoing instrument was acknowledged before me by means of physical presence or online notarization this 20th day of April, 2020 by Robert P. Demchak, the EVP, General Counsel & Corp. Sec. of Melbourne Square, LLC, on behalf of the limited liability company, who is personally known to me.



[Signature]
Notary Public - State of Indiana
Print Name: Tracy Reinholt
My Commission Expires: 12/28/2023


ACCEPTANCE BY GRANTEE

**ST. JOHNS RIVER WATER
MANAGEMENT DISTRICT**

By: 

Ann B. Shortelle, Ph.D.
Its Executive Director

ATTEST:



William Abrams, General Counsel

Approved as to Form and Legality
For reliance only by SJRWMD

By: *Kris Davis*

Kris Davis, Asst. General Counsel

EXHIBIT "A"

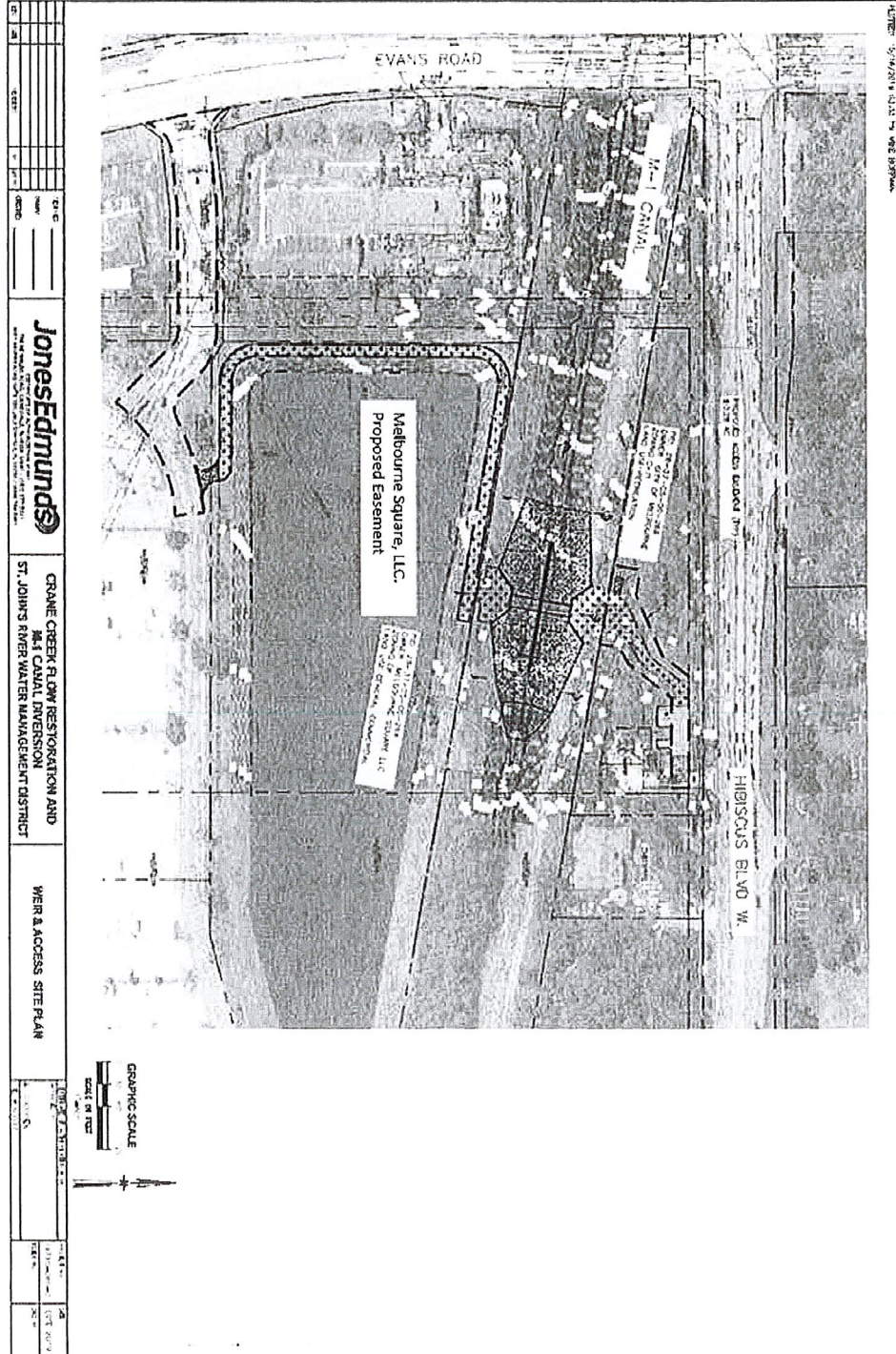
Legal Description of Grantor's Property

A PARCEL OF LAND LOCATED IN THE NORTHWEST QUARTER (NW 1/4) OF SECTION 5, TOWNSHIP 28 SOUTH, RANGE 37 EAST, BREVARD COUNTY, FLORIDA AND BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS:

BEGINNING AT THE NORTHWEST CORNER OF SAID NORTHWEST QUARTER (NW 1/4) OF SECTION 5: THENCE; SOUTH 00 01' 45" EAST ALONG THE WEST LINE OF SAID SECTION 5, A DISTANCE OF 247.79 FEET TO A POINT ON THE SOUTH RIGHT-OF-WAY LINE OF M -1 CANAL; THENCE SOUTH 80 06' 00" EAST ALONG SAID SOUTH RIGHT-OF-WAY LINE, A DISTANCE OF 41.83 FEET TO THE PRINCIPAL POINT AND PLACE OF BEGINNING OF THE FOLLOWING DESCRIPTION: THENCE CONTINUING SOUTH 80 06' 00" EAST ALONG SAID SOUTH RIGHT-OF-WAY LINE, A DISTANCE OF 1175.99 FEET TO A POINT; THENCE DUE SOUTH, A DISTANCE OF 134.28 FEET TO A POINT; THENCE SOUTH 75 00' 00" WEST, A DISTANCE OF 352.96 FEET TO A POINT; THENCE DUE WEST, A DISTANCE OF 788.25 FEET TO A POINT; THENCE NORTH 60 00' 00" WEST, A DISTANCE OF 33.82 FEET TO A POINT; THENCE DUE NORTH, A DISTANCE OF 410.91 FEET TO A POINT ON THE SOUTH RIGHT-OF-WAY LINE OF M-1 CANAL SAID POINT ALSO BEING THE PRINCIPAL POINT AND PLACE OF BEGINNING

EXHIBIT "B"

Weir Structure Location and Easement Route

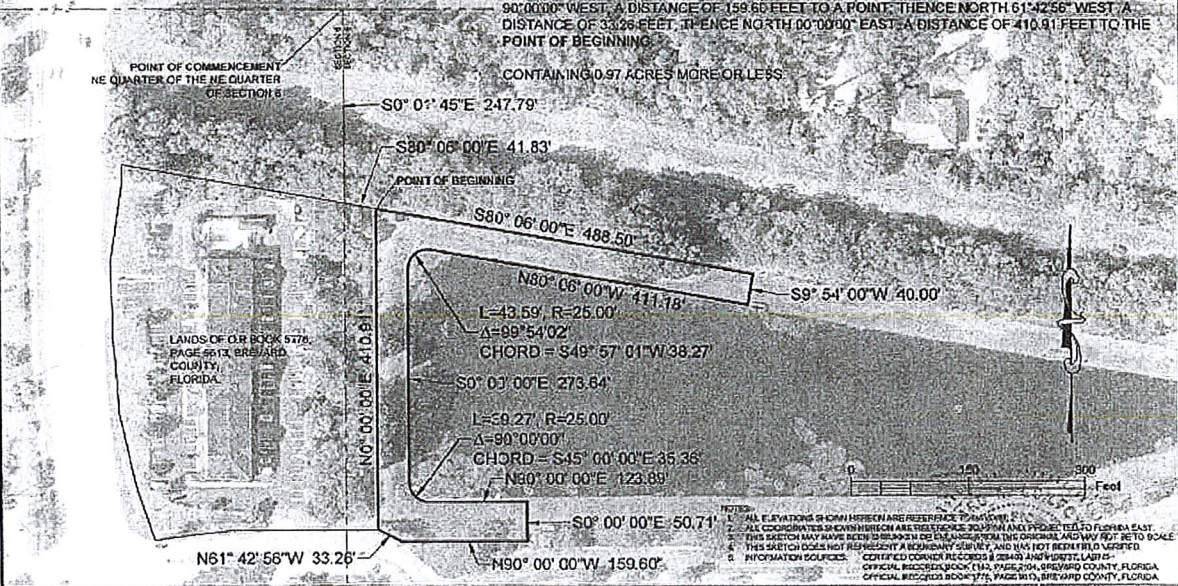


SKETCH OF DESCRIPTION

AN EASEMENT SITUATED IN AND LYING IN SECTION 6, TOWNSHIP 28 SOUTH, RANGE 37 EAST, BREVARD COUNTY, FLORIDA

COMMENCE AT THE NORTHEAST CORNER OF THE NORTHEAST QUARTER OF SAID SECTION 6; THENCE SOUTH 00°01'45" EAST, A DISTANCE OF 247.75 FEET TO A POINT; THENCE SOUTH 80°05'00" EAST, A DISTANCE OF 41.83 FEET TO THE POINT OF BEGINNING; THENCE CONTINUE SOUTH 80°05'00" EAST, A DISTANCE OF 488.50 FEET TO A POINT; THENCE SOUTH 09°54'00" WEST, A DISTANCE OF 40 FEET TO A POINT; THENCE NORTH 80°08'30" WEST, A DISTANCE OF 411.18 FEET TO A POINT ON A CURVE CONCAVE TO THE SOUTHEAST, HAVING A RADIUS OF 25.00 FEET; THENCE ALONG THE ARC OF SAID CURVE, THROUGH AN ANGLE OF 89°54'02", AN ARC DISTANCE OF 43.59 FEET AND A CHORD BEARING AND DISTANCE OF SOUTH 49°57'01" WEST, 38.27 FEET; THENCE SOUTH 00°00'00" EAST, A DISTANCE OF 273.84 FEET TO A POINT ON A CURVE CONCAVE TO THE NORTHEAST, HAVING A RADIUS OF 25.00 FEET; THENCE ALONG THE ARC OF SAID CURVE, THROUGH AN ANGLE OF 90°00'00", AN ARC DISTANCE OF 39.27 FEET AND A CHORD BEARING AND DISTANCE OF SOUTH 45°00'00" EAST, 35.36 FEET; THENCE NORTH 90°00'00" EAST, A DISTANCE OF 123.89 FEET TO A POINT; THENCE SOUTH 00°00'00" EAST, A DISTANCE OF 50.71 FEET TO A POINT; THENCE NORTH 90°00'00" WEST, A DISTANCE OF 159.60 FEET TO A POINT; THENCE NORTH 61°42'56" WEST, A DISTANCE OF 33.26 FEET; THENCE NORTH 00°00'00" EAST, A DISTANCE OF 410.91 FEET TO THE POINT OF BEGINNING.

CONTAINING 0.97 ACRES MORE OR LESS



ST. JOHNS RIVER
WATER MANAGEMENT DISTRICT

CRANE CREEK / M-1 CANAL FLOW RESTORATION PROJECT EASEMENT
SECTION 5, TOWNSHIP 28 SOUTH, RANGE 37 EAST
BREVARD COUNTY, FLORIDA

NO.	DESCRIPTION	DATE

APPROVED FOR
DATE: 2/15/2019

BY: [Signature]
DATE: 2/15/2019

Exhibit "C"

This Instrument Prepared By and Return To:
Right-of-Way Department/Amy Powell
Florida Gas Transmission Company
2405 Lucien Way, Suite 200
Maitland, Florida 32751

Project No.: 20-250
Tract No.: FLMEB-BREV-122, FLBQA-BREV-013

ENCROACHMENT AGREEMENT

THIS ENCROACHMENT AGREEMENT ("Agreement") is made and entered into this 27th day of July, 2020, by and between **FLORIDA GAS TRANSMISSION COMPANY, LLC**, a Delaware limited liability company ("FGT"), with principal offices at 1300 Main Street, Houston, Texas 77002, and, **ST. JOHNS RIVER WATER MANAGEMENT DISTRICT (DISTRICT)**, whose address is 4049 Reid Street, Palatka, FL 32177.

WITNESSETH THAT:

WHEREAS, FGT is the owner and holder of an easement under the provisions of that certain Easement Grant dated April 17, 1962, and recorded in Book 492, Page 21, and modified by that certain Modification of Easement Grant dated October 3, 1962, and recorded in Book 531, Page 835, and that certain Final Judgment dated February 22, 1971, and recorded in Book 1164, Page 187, all on Official Records, Brevard County, Florida (collectively, "Easement Agreement"), covering lands located in Brevard County, Florida as described in the Easement Agreement ("Lands"); and

WHEREAS, pursuant to the authority contained in the Easement Agreement, FGT has constructed and currently operates and maintains an eight inch (8") and a twenty-six inch (26") natural gas pipeline and related surface and subsurface appurtenances, (collectively, the "Pipeline Facilities"), across and through the Lands; and

WHEREAS, DISTRICT is the present holder of a permit across that portion of the Lands described in Exhibit "B" attached hereto and made a part hereof for all purposes ("Owned Premises"), with Pipeline Facilities situated thereon;

WHEREAS, DISTRICT seeks consent for a directional bore for one 24" HDPE storm water force main crossing the fifty foot (50') and thirty foot (30') wide FGT easement ("Easement Area") and the Pipeline Facilities as depicted on Exhibit "C" attached hereto and made a part hereof ("Encroachment"), pursuant to the terms and provisions of this Agreement; and

WHEREAS, DISTRICT has been advised by FGT that FGT is a natural gas transmission company and that FGT operates a high pressure underground natural gas Pipeline Facilities through the Owned Premises; and

WHEREAS, DISTRICT has requested written consent from FGT to install, construct, maintain, use, operate, repair, replace and enjoy the Encroachment upon a portion of the Easement Area and in close proximity to the Pipeline Facilities; and

WHEREAS, FGT is willing to grant such consent upon the terms and conditions hereafter set forth.

NOW, THEREFORE, in consideration of the mutual covenants, terms and conditions set forth in this Encroachment Agreement, FGT and DISTRICT agree as follows:

1. To the extent that FGT has the right to do so, FGT hereby grants consent to DISTRICT to install, construct, maintain, use, operate, repair, replace and enjoy the Encroachment on the Owned Premises and the Easement Area, and in close proximity to the Pipeline Facilities, subject to compliance with the following terms and conditions:

A. DISTRICT hereby assumes all risks for damages, injuries, or loss to either property or persons, caused by, or arising out of, or resulting from, or in any way associated with the installation, construction, use, maintenance, repair or replacement of the Encroachment.

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Tract No. FLMEB-BREV-122/FLBQA-BREV-013

B. The consent granted herein is limited exclusively to the proposed Encroachment upon the Owned Premises within the Easement Area. DISTRICT shall not alter the grade or permit such alteration anywhere on the Easement Area without the prior express written consent of FGT.

C. DISTRICT shall at all times conduct all activities on the Easement Area in such a manner as not to unreasonably interfere with or impede the operation and maintenance of the Pipeline Facilities, as conducted in the past, present or future, in any manner whatsoever.

D. Except as to the Encroachment, DISTRICT shall not construct, plant or create additional improvements of any kind, including but not limited to, fences, sheds, irrigation or drainage systems, utilities other than the Encroachment, decking, pole barns, parking lots, roadways, pools, ponds, trees or shrubs within the confines of the Easement Area without the prior express written consent of FGT.

E. DISTRICT understands and agrees that FGT may not have the authority to grant DISTRICT permission to construct the Encroachment in the Easement Area. This Agreement merely defines the terms by which FGT will not object, and that DISTRICT will obtain permission for the Encroachment from the underlying fee owner of the Lands or third parties having an interest in the Owned Premises. The consent granted by this instrument shall not constitute or be construed as a subordination, merger, assignment, conveyance or relinquishment of any of the right, title and interest of FGT under the provisions of the Easement Agreement.

2. DISTRICT agrees that the Encroachment and any additional approved improvements constructed or installed in the Easement Area shall be constructed in accordance with the Engineering and Construction Specifications detailed in Exhibit "A" attached hereto and made a part hereof. Installation, construction, maintenance, repair and replacement of the Encroachment shall be the sole responsibility, and performed at the sole cost and expense of DISTRICT.

3. Subject to the provisions and limitations of Section 768.28 Florida Statutes, DISTRICT agrees to indemnify, protect, and hold harmless FGT, its parent, affiliates, subsidiaries, and their directors, officers, employees, representatives, and agents (hereinafter "FGT Entities") from and against any and all actions or causes of action, claims, demands, liabilities, loss, damage, injury, suit, proceeding, judgment, cost or expense of whatever kind or nature, including but not limited to reasonable attorneys' fees, to the extent directly caused by the negligent or wrongful act or omission of the DISTRICT or its employees, or directly caused by DISTRICT's installation, construction, use, maintenance, repair or replacement of the Encroachment.

In addition and subject to the provisions and limitations of Section 768.28 Florida Statutes, DISTRICT agrees to indemnify, defend and hold harmless FGT and the FGT Entities from and against any liability, damage, claims, loss, cause of action, suit, proceeding, judgment, cost (including the cost or expense of environmental response, removal or remediation activities), fees or expense, including reasonable attorney's fees, to the extent directly caused by: (a) DISTRICT's non-compliance with any laws, regulations and orders applicable to the ownership or the operation and maintenance of the Encroachment on the Owned Premises and the Easement Area described herein, and (b) any incidents, acts, releases, negligence, transactions or omissions, or conditions on or affecting the Easement Area to the extent directly caused by DISTRICT's installation, construction, use, maintenance, repair or replacement of the Encroachment (i) contributes to or constitutes a violation of any local, state or federal environmental rule, regulation, law or judicial order, (ii) results, in whole or in part, in any requirement to clean up or otherwise remedy or remediate a condition, (iii) gives rise to any lien, liability, injunction, order, restriction, claim, expense, damage, fine or penalty, (iv) adversely affects human health or the environment at or adjacent to the Easement Area, or (v) constitutes a violation of the terms of this Encroachment Agreement.

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4. DISTRICT shall take reasonable steps to protect the Pipeline Facilities at all times during DISTRICT's performance of any work associated with the Encroachment including maintaining a minimum of three feet (3') of cover over the subsurface Pipeline Facilities at all times.

5. FGT agrees that the Encroachment is critical infrastructure to DISTRICT's operations. Should FGT need DISTRICT to temporarily remove or relocate any of the Encroachment within the Easement Area in order for FGT to construct, maintain, operate, repair, remove, replace or resize the Pipeline Facilities, DISTRICT shall pay the cost of removing and replacing or reinstalling the Encroachment. In addition, all repair and maintenance work performed by FGT on its existing or additional Pipeline Facilities located on the Easement Area, shall be performed in a reasonable workmanlike manner and FGT shall restore the surface and grade of Owned Premises where the work is performed, but shall not be liable for loss, damage, or replacement to the Encroachment or any equipment and facilities that exist within the Easement Area, unless such damage is caused by FGT, or its agents or employees, negligence or willful misconduct.

6. INTENTIONALLY OMITTED.

7. This Agreement in no way constitutes a waiver by FGT of its rights to enjoy the Easement Area unencumbered by the construction, operation, maintenance or use of the Encroachment within the Easement Area.

8. It is expressly agreed to by and between FGT and DISTRICT that if DISTRICT is in violation of any terms or conditions set forth in this Encroachment Agreement, DISTRICT shall cure such default within sixty (60) days following written notice from FGT to DISTRICT specifying the nature of the default. If, however, the nature of the default or violation is such that it cannot be cured within such sixty (60) day period, DISTRICT shall have begun and be diligently pursuing the cure of such default within the sixty (60) day cure period. In the event that DISTRICT fails to cure the default within the sixty (60) day cure period, (or in the event of a default not capable of being cured within such sixty (60) day period, begun and diligently pursue the cure within the sixty (60) day period) following written notice of default from FGT to DISTRICT, FGT may, following expiration of the sixty (60) day cure period terminate FGT's consent to the Encroachment upon ten (10) days' prior written notice to DISTRICT. DISTRICT expressly agrees that if FGT terminates its consent to the Encroachment based upon DISTRICT's failure to cure a violation of the Encroachment Agreement, DISTRICT will continue to be bound by the terms of the Encroachment Agreement and DISTRICT shall immediately remove any and all of the Encroachment which may be situated on the Easement Area, or if DISTRICT fails to remove any and all of the Encroachment, FGT may, at its option, remove the Encroachment at the expense of DISTRICT. If such violation by DISTRICT constitutes or results in an emergency or a dangerous condition, FGT shall only be required to provide whatever prior notice is reasonable under the circumstances before exercising its rights to remove the Encroachment or otherwise cure the violation. The failure of FGT to exercise the option to terminate as to any such violation shall not constitute a waiver of FGT's future right to exercise such option as to the same or any future violation. . The remedies outlined herein are not exclusive and FGT and DISTRICT do not waive any legal or equitable remedies.

9. The provisions of the Easement Agreement, and all rights, powers, privileges, and duties, obligations, and liabilities created thereby, shall remain in full force and effect and are not affected hereby except to the extent and in the manner specifically and particularly set forth herein.

10. DISTRICT and FGT stipulate and agree that the statements and information contained in the introductory paragraphs and recitations of this Agreement are true and correct and are incorporated herein by this reference.

11. This instrument and the covenants and agreements herein contained shall extend to and be binding upon DISTRICT and the heirs, executors, personal representatives, successors and assigns of DISTRICT and upon FGT and the successors and assigns of FGT and the benefits of this Agreement shall run with the land. This Encroachment Agreement may be executed in counterparts, each of which when

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conformed shall be an original and all of which together shall constitute a single document.

IN WITNESS WHEREOF, the parties have executed this instrument the day and year first above written.

WITNESSES:

Amy Powell
Name: Amy Powell

Jim Johnson
Name: Jim Johnson

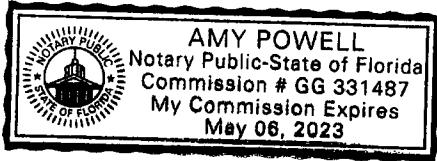
"FGT"
FLORIDA GAS TRANSMISSION
COMPANY, LLC

By David Shellhouse
DAVID SHELLHOUSE
VICE PRESIDENT

ACKNOWLEDGEMENT

STATE OF FLORIDA
COUNTY OF ORANGE

The foregoing instrument was acknowledged before me by means of physical presence or online notarization on this 12th day of August, 2020, by DAVID SHELLHOUSE, VICE PRESIDENT OF FLORIDA GAS TRANSMISSION COMPANY, LLC, a Delaware limited liability company, on behalf of the company, who is personally known to me or has produced _____ (type of identification) as identification.



Amy Powell
Notary Public
Name (Printed): Amy Powell
My Commission Expires: 5/6/23

WITNESSES:

Marti Hightower
Name: Marti Hightower

Andrea Dzioba
Name: Andrea Dzioba

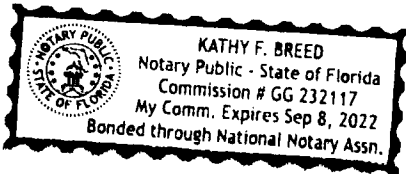
"DISTRICT"
ST. JOHNS RIVER WATER
MANAGEMENT DISTRICT

By: Ann B. Shortelle, Ph.D.
Name: Ann B. Shortelle, Ph.D.
Title: Executive Director

ACKNOWLEDGEMENT

STATE OF Florida
COUNTY Duval

The foregoing instrument was acknowledged before me by means of physical presence or online notarization on this 12th day of Aug, 2020, by Ann B. Shortelle, Exec. Dir. of ST. JOHNS RIVER WATER MANAGEMENT DISTRICT, a public body existing under Chapter 373, Florida Statutes who is personally known to me or has produced _____ (type of identification) as identification.



Kathy F. Breed
Notary Public
Name (Printed): _____
My Commission Expires: _____

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EXHIBIT "A"
Attached to and made a part of that certain
ENCROACHMENT AGREEMENT
 Dated July 17th, 2020
 By and between
FLORIDA GAS TRANSMISSION COMPANY, LLC
and ST. JOHNS RIVER WATER MANAGEMENT DISTRICT

ENGINEERING AND CONSTRUCTION SPECIFICATIONS

1. No work can be done in FGT's easement property unless FGT has reviewed and approved the plans and an agreement in writing has been entered into between FGT and DISTRICT. Any encroachment consented to by FGT shall not interfere with the operation, maintenance, and access of FGT's pipeline facilities, including but not limited to, close interval surveys; leak detection surveys; pipeline patrol, pipeline marking and similar activities.
2. DISTRICT shall provide a minimum of forty-eight (48) hours' notice to FGT prior to any installation, construction, excavation, or demolition work on the easement area. To ensure further safety, DISTRICT must call appropriate ONE CALL for a locate by calling 811. An FGT representative must be present when any work is done on the easement area. The onsite FGT representative will have the authority to shutdown work by the DISTRICT if the DISTRICT's activities are judged to be unsafe by the FGT representative. The FGT representative will be invited to participate in DISTRICT's safety meetings. This provision applies each time FGT's pipeline facilities are crossed.
3. Existing ground elevation is to be maintained.
4. For vehicles and/or construction equipment requesting approval to cross FGT's facilities, each crossing location will be reviewed on a case-by-case, site-specific basis and will require the surveyed elevation of the pipeline and/or facility verified by an FGT field representative to be performed by the party requesting the crossing encroachment and submitted to FGT. The execution of a wheel load calculation must be completed and approved by FGT prior to crossing FGT's facilities for every vehicle and/or construction equipment requesting to cross. FGT may require matting or other suitable material be installed to achieve the necessary support for such crossing. This too will be site specific and case-by-case only.
5. Where consent for roadway crossings has been granted, a minimum of forty-eight inches (48") of cover, including thirty-six (36") of undisturbed or compacted soil, shall be maintained within the easement area. All roads must cross the easement at a ninety degree (90°) angle.
6. Upon completion of paragraph 1, sidewalks, trails and bike paths may cross FGT's pipelines at a ninety degree (90°) angle provided the width does not exceed forty-eight inches (48").
7. When crossing an FGT pipeline (via drill or open lay) DISTRICT must visually verify the elevation of the pipeline both vertically and horizontally, by an FGT approved method such as vacuum excavation with an FGT field representative on-site at all times during this operation. When using directional drill method, a minimum vertical clearance of ten feet (10') from the pipeline is required across the entire easement.
8. Where the encroachment includes utilities, all such utilities crossing the easement area must have a minimum separation of twenty-four inches (24") between the utility and the FGT pipeline(s) at the point of crossing and must cross at a ninety degree (90°) angle. No utilities shall be constructed between the surface of the easement area and the top of the subsurface pipeline facilities unless agreed to in writing by FGT. No parallel utilities, structures, and/or appurtenances are permitted within the easement area. All proposed aerial crossings will be reviewed on a case-by-case basis.
9. Where consent for fiber optic, telephone and/or cable television lines has been granted, lines must be placed in a rigid non-metallic conduit across the entire easement width with bags of concrete-mix placed directly above and below the conduit across the confines of the easement. Orange warning burial tape must be placed a minimum of 18" directly above the cable across the width of the easement. Crossings must be clearly and permanently marked on each side of the easement with permanent identification.
10. Where consent for utility lines has been granted, electric lines must be encased in pvc or steel throughout the entire easement area. Cables energized to 600 volts or more must cross a minimum of three feet (3') below the subsurface pipeline facilities, and also be encased in concrete, color coded red, across the entire easement width, and have external, spiral wound, neutrals grounded on each side of the easement.

Project No. 20-250
Tract No. FLMEB-BREV-122/FLBQA-BREV-013

The cable crossing should be clearly and permanently marked on each side of the easement where permissible.

11. Where consent for fencing has been granted, the DISTRICT must install and maintain a vehicle access gate at least twelve feet (12') in width at each point in the fence line(s) crossing the easement area. Posthole excavations for fencing placed on the easement area shall not be greater than eighteen inches (18") below the ground surface elevation. No fence posts shall be placed over the pipeline facilities or closer than six feet (6') on either side of the pipeline facilities. Any exceptions will be determined by FGT management. Any such fence shall be constructed and maintained by DISTRICT in such a manner that does not prevent FGT personnel from viewing the easement area from the ground level through the fence(s) (i.e. no solid fences allowed). No fencing parallel to the FGT pipeline facilities will be allowed within the easement area. FGT's access to its pipeline facilities shall be maintained by DISTRICT. If the gate is locked with DISTRICT's lock, DISTRICT shall provide FGT with keys or allow a FGT lock to enable access.
12. No retention ponds, ditches or swales shall be allowed within the easement area.
13. No roto-mixing or vibrating machinery is allowed within the easement area.
14. When conducting pile driving operations, DISTRICT shall adhere to a minimum separation of twenty-five feet (25') from the outside edge of the FGT pipeline.
15. Excavations that expose the FGT pipeline must follow OSHA standards. Time will be allowed for a FGT representative to inspect and make coating repairs as the subsurface pipeline facilities are exposed.
16. Twelve inches (12") of backfill around the subsurface pipeline facilities shall be sand or clean fill; free of rocks and debris.
17. With prior approval, no more than twenty feet (20') of pipe shall be exposed at any given time; if more than twenty feet (20') of pipe is to be exposed, all Standard Operating Procedures (SOP) must be adhered to, pressure reductions must be scheduled at least one (1) year in advance and engineering stress calculations must be performed by FGT Engineering and approved by FGT management prior to allowing any more than the twenty feet (20') of exposed pipe.
18. With prior approval and an FGT representative on site at all times, excavation equipment equipped with toothless buckets may be allowed to dig or excavate within three (3) feet of the pipeline facilities. All other construction/excavation equipment will not be allowed to perform any excavation within three feet (3') of the pipeline facilities. All mechanical excavation performed within three feet (3') of the pipeline will be performed parallel to the pipeline (i.e. track-hoe may not reach over the pipeline to dig on the opposite side of the pipeline).
19. All excavation within twenty-four (24") from the top or thirty-six inches (36") from the side or bottom of the pipeline shall be by manual means. After top exposure, excavation up to twenty four inches (24") from the side or bottom of the exposed pipeline may proceed by mechanical means if the FGT representative is satisfied it may be done safely with the equipment and operator available.
20. Barriers adequate to prevent vehicular damage to any exposed pipeline facilities shall be installed and maintained at all times.
21. All FGT pipeline facilities, cathodic protection equipment, and test lead wires shall be protected from damage by construction activity at all times.
22. No installation, construction, excavation, or demolition work shall be performed within the easement area on weekends or holidays.
23. The DISTRICT shall provide and install temporary construction fence along the easement boundaries for the entire length of the proposed work area to preserve and protect the pipeline(s). The fence must be maintained for the duration of the development or construction activity.
24. Where consent for landscaping has been granted, DISTRICT shall not plant shrubs on the easement area which are classified as "deep rooted" or are projected to exceed an eventual growth height of four (4) feet. Shrubs shall be planted so that no part, at its ultimate growth, shall be closer than ten feet (10') to the pipeline facilities. No trees shall be planted on the easement.
25. These Engineering and Construction Specifications may address activities on the easement area for which FGT has not granted consent to DISTRICT to include as part of the encroachment. Notwithstanding anything to the contrary contained in these Engineering and Construction Specifications, FGT's consent is and shall be limited to the encroachment as described and limited by the Encroachment Agreement to which this Exhibit is attached.

Project No. 20-250
Tract No. FLMEB-BREV-122/FLBQA-BREV-013

EXHIBIT "B"

**Attached to and made a part of that certain
ENCROACHMENT AGREEMENT**

Dated _____, 2020

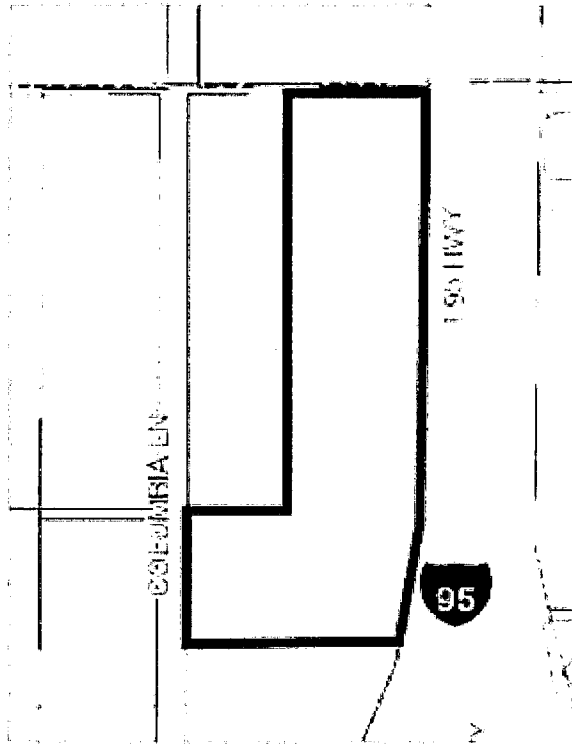
By and between

**FLORIDA GAS TRANSMISSION COMPANY, LLC
and ST. JOHNS RIVER WATER MANAGEMENT DISTRICT**

DESCRIPTION OF THE OWNED PREMISES

Section 3, Township 28S, Range 36E – Brevard County, FL

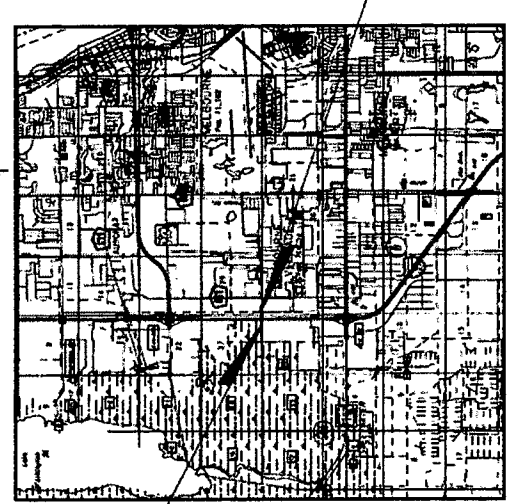
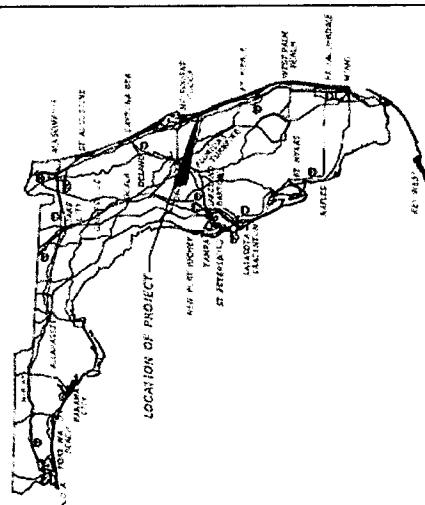
**PART OF THE NE/4 LYING WEST OF I-95 IN
SEC. 3-28S-36E**



Project No. 20-250
 Tract No. FLMEB-BREV-122/FLBQA-BREV-013

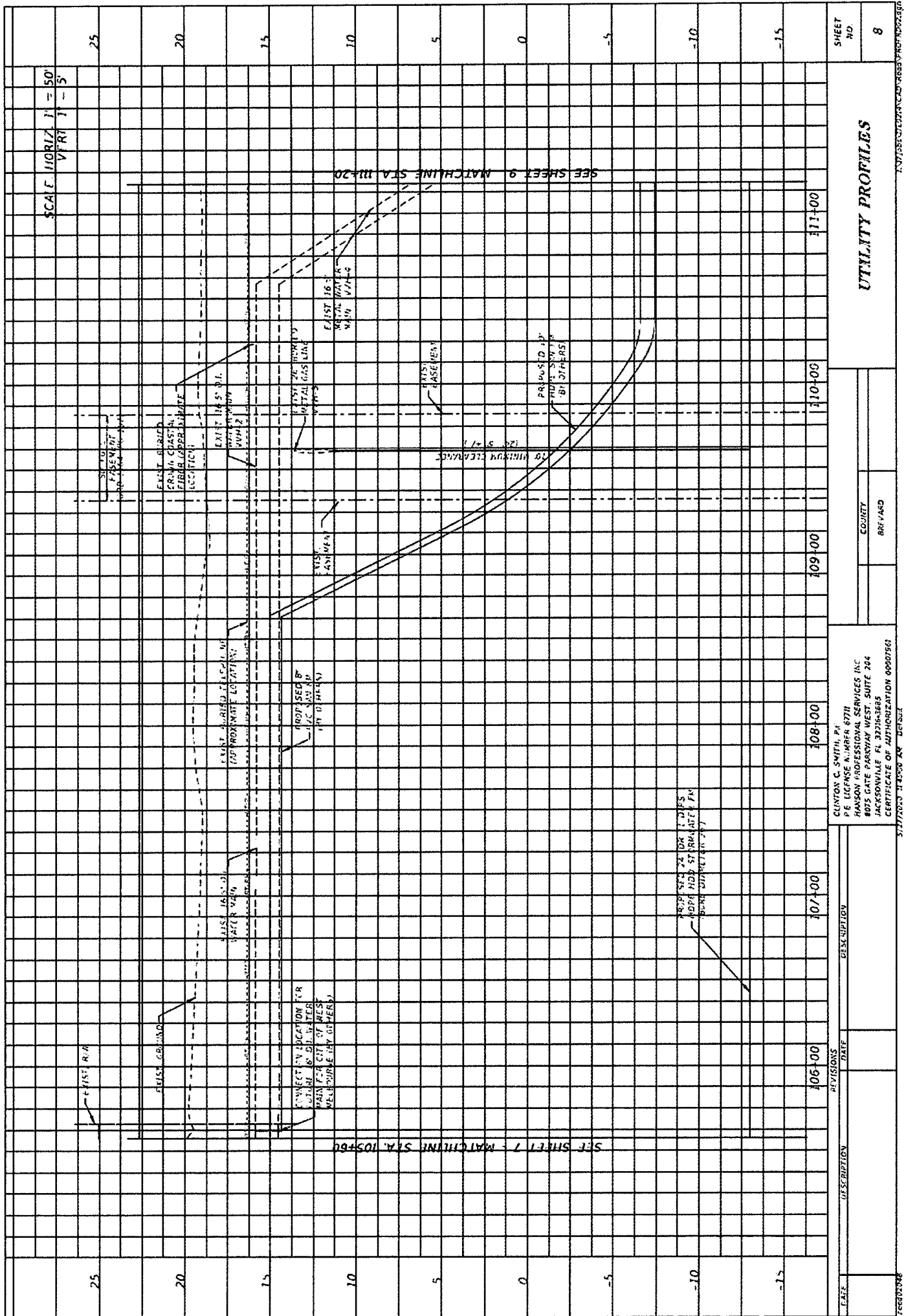
EXHIBIT "C"
 Attached to and made a part of that certain
ENCROACHMENT AGREEMENT
 Dated July 28th, 2020
 By and between
FLORIDA GAS TRANSMISSION COMPANY, LLC
 and **ST. JOHNS RIVER WATER MANAGEMENT DISTRICT**

DESCRIPTION AND DRAWINGS OF THE ENCROACHMENT

<p align="center">SAINT JOHNS RIVER WATER MANAGEMENT DISTRICT</p> <p align="center">UTILITY PLANS</p> <p align="center">CRANE CREEK M-1 CANAL FLOW RESTORATION</p> <p>INDEX OF UTILITY PLANS</p> <table border="1"> <thead> <tr> <th>SHEET NO</th> <th>SHEET DESCRIPTION</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>KEY SHEET</td> </tr> <tr> <td>2</td> <td>GENERAL NOTES</td> </tr> <tr> <td>3-6</td> <td>UTILITY PLAN</td> </tr> <tr> <td>7-10</td> <td>UTILITY PROFILE</td> </tr> <tr> <td>11</td> <td>SUMMARY OF VERIFIED UTILITIES</td> </tr> </tbody> </table>	SHEET NO	SHEET DESCRIPTION	1	KEY SHEET	2	GENERAL NOTES	3-6	UTILITY PLAN	7-10	UTILITY PROFILE	11	SUMMARY OF VERIFIED UTILITIES	 <p align="center">R-36 E T-27.5 T-28.5</p>  <p align="center">LOCATION OF PROJECT</p>	<p align="center">Digitally signed by Clinton C Smith Date: 2020.05.28 14:11:14 -04'00'</p> <p>UTILITY PLANS ENGINEER OF RECORD: CLINTON C. SMITH, P.E. NO. 67711 HANSON PROFESSIONAL SERVICES INC. 8015 GATE PARKWAY WEST, SUITE 204 JACKSONVILLE, FL 32218-3685 (904) 737-6090</p>
SHEET NO	SHEET DESCRIPTION													
1	KEY SHEET													
2	GENERAL NOTES													
3-6	UTILITY PLAN													
7-10	UTILITY PROFILE													
11	SUMMARY OF VERIFIED UTILITIES													
		<table border="1"> <tr> <td>SHEET NO.</td> <td>1</td> </tr> </table> <p align="center">PERMITTING SUBMITTAL</p>	SHEET NO.	1										
SHEET NO.	1													
<p>GOVERNING STANDARD PLANS: Florida Department of Transportation, FY2009-20 Standard Plans for Road and Bridge Construction and applicable Interim Revisions (IRs) Standard Plans for Road Construction and associated IRs are available at the following website: http://www.flot.gov/design/standardplans</p> <p>APPLICABLE IRs: Standard Plans for Bridge Construction are included in the Structures Plans Component</p> <p>GOVERNING STANDARD SPECIFICATIONS: Florida Department of Transportation, July 2020 Standard Specifications for Road and Bridge Construction at the following website: http://www.flot.gov/programmanagement/Implemented/SpecBooks July 2017 FOOT Utility Accreditation Manual</p>														

NOTICE THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004 F.A.C.

Project No. 20-250
 Tract No. FLMEB-BREV-122/FLBQA-BREV-013



UTILITY PROFILES

SHEET NO. 8

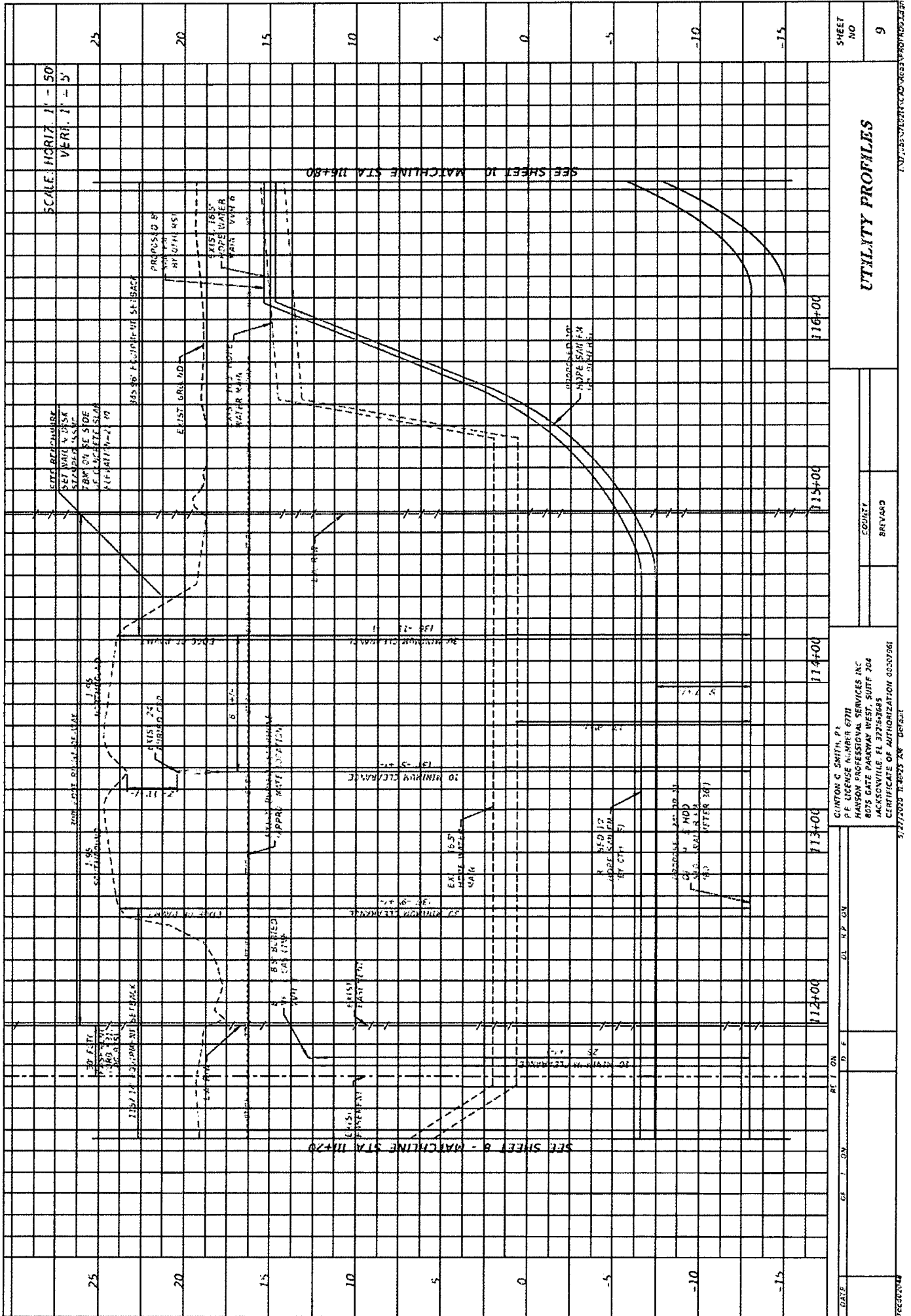
COUNTY BREVARD

CLINTON C. SMITH, P.E.
 P.E. LICENSE NUMBER 87718
 HANSON PROFESSIONAL SERVICES INC.
 8055 GATE PARWAY WEST, SUITE 204
 JACKSONVILLE, FL 32216-5685
 CERTIFICATE OF AUTHORIZATION 00007563

REVISIONS	DATE	DESCRIPTION

5/27/2020 11:00:29 AM 4/15/22

Project No. 20-250
 Tract No. FLMEB-BREV-122/FLBQA-BREV-013



DATE	CF	DN	DL	FP	OV
GUNTON C SMITH, P.E. P.E. LICENSE NUMBER 67711 HANSON PROFESSIONAL SERVICES INC 8075 GATE PARKWAY WEST, SUITE 204 JACKSONVILLE, FL 32216-3685 CERTIFICATE OF AUTHORIZATION 00007961 3/27/2020 11:00:25 AM DBI:JL					
COUNTY			BRV448D		
UTILITY PROFILES					
SHEET NO					9

Prepared by/please return to:
Kris Davis, Esq.
St. Johns River Water Management District
Office of General Counsel
P.O. Box 1429
Palatka, FL 32178-1429

TEMPORARY CONSTRUCTION EASEMENT AGREEMENT

THIS TEMPORARY CONSTRUCTION EASEMENT AGREEMENT (Easement Agreement) is made and entered into this 12 day of May, 2020 (Effective Date), between William P. Turnbaugh, as Trustee of the Turnbaugh Revocable Trust U/T/D July 13, 1994, whose Post Office Address is 4910 Suapres Lane, West Melbourne, FL 32904,(Grantor), and the St. Johns River Water Management District, a public body existing under Chapter 373, Florida Statutes, whose mailing address is Post Office Box 1429, Palatka, FL 32177-1429, (Grantee).

RECITALS

A. Grantor is the fee simple owner of certain real property known as the Turnbaugh Property located in Brevard County, Florida, and Grantor desires to grant Grantee a temporary construction easement over, upon, through, across and under the property described and depicted on Exhibit "A" and Exhibit "B" attached hereto and incorporated herein by reference (the Easement Area).

B. As part of a project to improve water quality in the Indian River Lagoon, Grantee plans to construct a single, permanent underground pipeline (Pipeline) that will be used to transport stormwater from the M-1 Canal west under Interstate 95 and then to a stormwater treatment area (the Project).

C. Grantee desires to utilize the Easement Area for access to adjacent offsite property on which the Pipeline will be constructed, for staging Project-related-equipment, for temporary storage of excavated soils and materials, and for ingress and egress access in, over, through, across and under the Easement Area to conduct these activities, and Grantor desires to grant an easement to Grantee for that purpose.

NOW THEREFORE, for and in consideration of the terms, conditions, and mutual covenants contained in this Easement Agreement, Grantor and Grantee agree as follows:

1. The foregoing Recitals are true and correct in all respects and said Recitals, together with the exhibits attached hereto, are incorporated herein by reference and made a part hereof.

2. Grantor grants to Grantee, its agents, representatives, contractors and employees the non-exclusive right, privilege, and permission to use the Easement Area for access to install and construct the Pipeline, for staging Project-related equipment and materials, for temporary storage of excavated soils and materials, and for ingress and egress access over, upon, through, across, and under the Easement Area to conduct these activities Grantee shall also have the right but not the obligation to clear vegetation as needed to conduct the activities authorized herein. The extent of the easement rights granted hereunder shall not be expanded without the prior written consent of the Grantor.

3. Hours of work shall be restricted to daylight hours unless Grantee provides prior notification to Grantor. Grantee shall not conduct Project-related activities on Sundays and state and federal holidays.

4. Grantee is authorized to clear vegetation from the Easement Area as needed for Project-related equipment and vehicular access, construction equipment, materials and soils storage, and Pipeline installation and construction activities.

5. Following completion of construction of the Pipeline and removal of the Project-related equipment and materials, as consideration for Grantor entering into this Easement Agreement, Grantee agrees to return the Easement Area to the grade existing on the Effective Date of this Easement Agreement, to remove from the Property any vegetation that was cleared pursuant to paragraph 4 above, and to install landscaping shrubs within the Easement Area according to the planting note in Exhibit "C" Environmental Resource Requirement number six attached hereto. Grantee agrees that grade will be such that surface water flow will not be altered from that which existed prior to construction. Upon 14 days of completion of planting, Grantee shall notify Grantor by phone. Within 14 days of notification, Grantor may direct additional or larger plantings, not to exceed twice the number of original plantings and up to 45 gallons in container size, within the cleared area to obscure view into adjacent parcel.

6. Grantor does not warrant its title to the Easement Area; however, Grantor does warrant that it has the power and authority to enter into this Easement Agreement and authorize the uses granted herein.

7. This Easement Agreement shall continue in full force and effect for a term of one year from the Effective Date or upon completion of all of the activities authorized herein, including the installation of landscaping shrubs as set forth in paragraph 5 above, whichever occurs last.

8. Grantor retains the right to use the Easement Area in any manner not inconsistent with the rights herein granted to Grantee.

9. In consideration of the privileges granted in this Easement Agreement, Grantee shall not claim any damages from Grantor in connection with or on account of any injuries or damages arising in or on the Easement Area while being used by Grantee and its agents, representatives and employees or arising from use of the Easement Area by third parties. Grantee shall maintain a program of insurance covering its liabilities as prescribed by Section 768.28, Florida Statutes and, subject to that statute, is solely responsible for the negligent acts or omissions of its officers, employees and agents, if such negligent acts or omissions result in injury to persons or damage to property. Grantor does not warrant or represent that the Easement Area is safe or suitable for the purpose for which Grantee is permitted to use it. In further consideration of the rights and privileges granted in this Easement Agreement, for those activities conducted in the Easement Area through Grantee's use of a contractor, Grantee shall ensure that the contractor names William P. Turnbaugh, as Trustee of the Turnbaugh Revocable Trust U/T/D July 13, 1994 as an additional insured under the contractor's automobile and general liability policies, and under any other insurance policies as may be required for the work being performed. Evidence of insurance must be submitted to and approved by the Grantor prior to the commencement of Grantee's, or Grantee's contractor's, activities in the Easement Area, but said approval shall not be unreasonably withheld. Nothing in this Easement Agreement constitutes a waiver of Grantee's sovereign immunity or the limits of liability established under Florida law.

10. Grantee shall not invite the general public to access, utilize or go upon the Easement

Area.

11. Grantee shall have its contractor remove all equipment and materials from the Easement Area within sixty (60) days of the date upon which Grantee ceases all activities on the Easement Area.

12. This Easement Agreement may neither be assigned nor transferred without prior written approval of Grantor.

13. This Easement Agreement is binding upon and shall inure to the benefit of Grantor and Grantee and their heirs, representatives, successors and assigns.

14. This Easement Agreement embodies the entire understanding of the parties and there are no further agreements or understandings, written or oral, in effect between Grantor and Grantee relating to the subject matter of this Easement Agreement. This instrument may be amended or modified by an instrument of equal formality signed by Grantor and Grantee and duly recorded in the Public Records of Brevard County, Florida.

15. For purposes of this Easement Agreement, and unless otherwise specified, all notification must be provided to the following parties:

To Grantor:

William P. Turnbaugh
4910 Suapres Lane
West Melbourne, FL 32904
321-258-8209

To Grantee:

Director, Office of Real Estate Services
St. Johns River Water Management District
PO Box 1429
Palatka, Florida 32178-1429
rbuch@sjrwmd.com
(386) 312-2362

16. Grantee shall give the Grantor at least five (5) business days advance written notification of commencement of the activities authorized herein.

17. Nothing contained in this Easement Agreement shall be construed as a waiver of or contract with respect to the regulatory and permitting authority of the Grantee as it now or hereafter exists under applicable laws, rules and regulations.

18. Nothing contained in this Easement Agreement shall be construed or interpreted as a waiver of any right, privilege or immunity, whether in contract or tort, that Grantee may enjoy under the doctrine of sovereign immunity, or the limitations of liability set forth in section 768.28, Florida Statutes.

19. This Easement Agreement shall not be construed more strictly against one party than

against the other merely by virtue of the fact that it may have been prepared by counsel for one of the parties, it being recognized that both Grantor and Grantee have contributed substantially and materially to the preparation hereof.

20. This Easement Agreement shall be construed and interpreted according to the laws of the state of Florida. Any provision found to be unlawful or unenforceable shall be severable and shall not affect the validity of the remaining provisions. In the event of any legal action regarding this Easement Agreement, each party shall bear its own attorney's fee and costs.

21. Grantor and Grantee agree to cooperate with each other and to expeditiously execute, obtain and deliver any documents, approvals, permits, or other authorizations necessary to carry out the rights obligations hereunder.

22. The Effective Date of this Easement Agreement shall be the date when the last of the parties hereto has executed the same, which date shall be inserted at the top of the first page hereof.

23. This Agreement may be signed in counterparts and all counterparts so executed shall constitute one contract, binding on all signatories hereto.

IN WITNESS WHEREOF, the parties have executed this Easement Agreement on the day and year set forth below.

(Remainder of page intentionally left blank;
signature pages follow.)

WITNESSES

Signed, sealed and delivered
in the presence of:

Signature _____
Susan Lane
Print Name _____

Signature _____
James P. Turnbaugh
Print Name _____

GRANTOR

Turnbaugh Revocable Trust U/T/D July 13,
1994.

Signature _____
William P. Turnbaugh Trustee
Print Name _____
William P. Turnbaugh, Trustee

STATE OF Florida
COUNTY OF Brevard

The foregoing instrument was acknowledged before me by means of physical presence or online
notarization this 3 day of April, 2020 by William P. Turnbaugh, as Trustee of the
Turnbaugh Revocable Trust U/T/D July 13, 1994, who is personally known to me or who produced
_____ as identification.

(NOTARIAL SEAL)

Signature _____
Notary Public - State of Florida
Print Name: Helena L Fitzgerald
My Commission Expires: June 8, 2022



WITNESSES

Signed, Sealed and Delivered
In the Presence of:

Signature *Kathy Breed*
Print name: Kathy Breed

Signature *Kim Driggers*
Print name: Kim Driggers

GRANTEE

St. Johns River Water Management District

By: *Ann B. Shortelle*
Ann B. Shortelle, Ph.D., Its Executive Director

Attest: *William Abrams*
William Abrams, General Counsel

**STATE OF FLORIDA
COUNTY OF PUTNAM**

I HEREBY CERTIFY that the foregoing instrument was acknowledged before me by means of physical presence or online notarization, this 12 day of May, 2020, by Ann B. Shortelle, Ph.D., as Executive Director of the St. Johns River Water Management District, on behalf of the District, who is personally known to me, and who did not take an oath.

Kathy F. Breed
NOTARY PUBLIC, State of Florida
Kathy F. Breed
Name of Notary typed, printed or stamped
My Commission Expires: _____
My Commission No.: _____

For use and reliance only by
St. Johns River Water Management District
Legal Form and Content Approved:

By: *Kris Davis*
Kris Davis, Asst. General Counsel

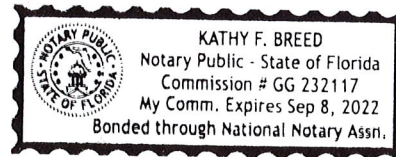


EXHIBIT "A"
LEGAL DESCRIPTION

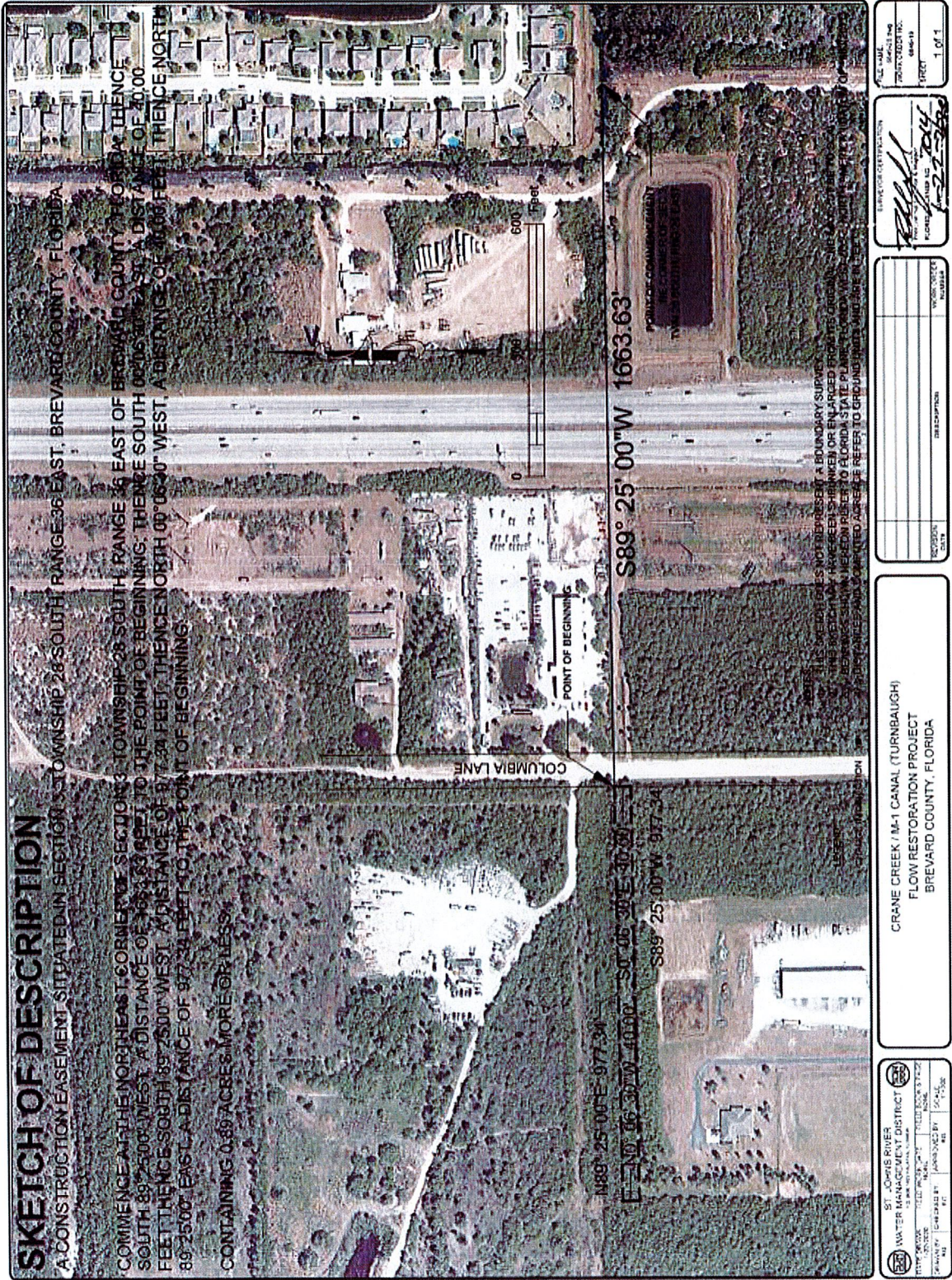
Crane Creek 40-foot construction easement (TURNBAUGH PROPERTY)

A CONSTRUCTION EASEMENT SITUATED IN SECTION 3, TOWNSHIP 28 SOUTH, RANGE 36 EAST, BREVARD COUNTY, FLORIDA.

COMMENCE AT THE NORTHEAST CORNER OF SECTION 3, TOWNSHIP 28 SOUTH, RANGE 36 EAST OF BREVARD COUNTY, FLORIDA; THENCE SOUTH 89°25'00" WEST, A DISTANCE OF 1663.63 FEET TO THE **POINT OF BEGINNING**; THENCE SOUTH 00°06'30" EAST, A DISTANCE OF 40.00 FEET; THENCE SOUTH 89°25'00" WEST, A DISTANCE OF 977.34 FEET; THENCE NORTH 00°06'30" WEST, A DISTANCE OF 40.00 FEET; THENCE NORTH 89°25'00" EAST, A DISTANCE OF 977.34 FEET TO THE **POINT OF BEGINNING**.

CONTAINING 0.89 ACRES MORE OR LESS

EXHIBIT "B"
SKETCH OF DESCRIPTION



SKETCH OF DESCRIPTION

A CONSTRUCTION EASEMENT SITUATED IN SECTION 3, TOWNSHIP 28 SOUTH, RANGE 36 EAST, BREVARD COUNTY, FLORIDA, COMMENCE AT THE NORTHEAST CORNER OF SECTION 3, TOWNSHIP 28 SOUTH, RANGE 36 EAST OF BREVARD COUNTY, FLORIDA, THENCE SOUTH 89° 25' 00" WEST, A DISTANCE OF 977.34 FEET TO THE POINT OF BEGINNING; THENCE SOUTH 00° 05' 30" EAST, A DISTANCE OF 40.00 FEET; THENCE SOUTH 89° 25' 00" WEST, A DISTANCE OF 177.34 FEET; THENCE NORTH 00° 06' 30" WEST, A DISTANCE OF 1663.63 FEET; THENCE NORTH 89° 25' 00" EAST, A DISTANCE OF 977.34 FEET TO THE POINT OF BEGINNING, CONTAINING 0.89 ACRES, MORE OR LESS.

<p>ST. JOHNS RIVER WATER MANAGEMENT DISTRICT</p> <p>PROJECT NO. 17-001 DATE: 11/15/17 DRAWN BY: [Signature] CHECKED BY: [Signature]</p>	<p>CRANE CREEK / M-1 CANAL (TURNBAUGH) FLOW RESTORATION PROJECT BREVARD COUNTY, FLORIDA</p>	<p>SCALE: 1" = 100'</p> <p>DATE: 11/15/17</p> <p>PROJECT NO. 17-001</p>
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EXHIBIT "C" PLANTING NOTE

GENERAL NOTES

1. BENCHMARK ELEVATIONS SHOWN ON THE PLANS ARE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAD 88).
2. THE LOCATIONS OF THE UTILITIES SHOWN IN THE PLANS (INCLUDING THOSE DESIGNATED V, VA, AND VNI) ARE BASED ON LIMITED INVESTIGATION TECHNIQUES AND SHOULD BE CONSIDERED APPROXIMATE ONLY. THE VERIFIED LOCATIONS/ELEVATIONS APPLY ONLY AT THE POINTS SHOWN. INTERPOLATIONS BETWEEN THESE POINTS HAVE NOT BEEN VERIFIED.
3. UTILITY/AGENCY OWNERS:

COMPANY	TELEPHONE NUMBER
BREVARD COUNTY PUBLIC WORKS - TRAFFIC SIGNALS & FIBER	(321) 633-2077
FLORIDA CITY GAS - GAS	(321) 638-4424
FLA GAS TRANS. - MELBOURNE - GAS PIPELINE	(407) 838-7171
FLORIDA POWER & LIGHT - BREVARD - ELECTRIC	(386) 586-6483
LEVEL 3 COMMUNICATIONS - FIBER OPTIC	(877) 366-8344 x2
CITY OF MELBOURNE UTILITIES ADMINISTRATION - WATER DISTRIBUTION	(321) 608-5056
CITY OF MELBOURNE UTILITIES ADMINISTRATION - WASTEWATER REUSE	(321) 608-5056
CITY OF MELBOURNE UTILITIES ADMINISTRATION - SEWAGE COLLECTION	(321) 608-5056
CENTURYLINK (FORMERLY ONWEST COMMUNICATIONS) - FIBER OPTIC	(888) 992-9924
AT&T DISTRIBUTION - TELEPHONE	(561) 997-0240
UMTI FIBER LLC - FIBER OPTIC	(321) 259-0807
BRIGHT HOUSE NETWORKS, LLC BREVARD - FIBER OPTIC	(321) 757-6451
CITY OF WEST MELBOURNE - WATER	(321) 837-7711
CITY OF WEST MELBOURNE - SEWER	(321) 965-6485
CROWN CASTLE FIBER	(866) 610-7059

4. SPECIAL EVENT DAYS FOR THIS PROJECT INCLUDE: TBD

ENVIRONMENTAL RESOURCE REQUIREMENTS

1. THE USE OF DRILLING FLUIDS SHALL NOT CAUSE OR CONTRIBUTE TO A VIOLATION OF STATE GROUND WATER QUALITY CRITERIA OR STANDARDS, AS DEFINED IN CHAPTER 62-520, F.A.C.
2. AT LEAST 48 HOURS PRIOR TO COMMENCEMENT OF ANY DIRECTIONAL DRILLING ACTIVITIES, CONTRACTOR SHALL PROVIDE ALL HOURS TELEPHONE CONTACT INFORMATION OF ALL CONTRACTORS RESPONSIBLE FOR DRILLING AND FOR CONTAINMENT AND CLEANUP IN THE EVENT OF A DRILLING FLUID FRACTURE OR SPILL.
3. THE CONTRACTOR SHALL AT ALL TIMES DURING DIRECTIONAL DRILLING ACTIVITIES, MAINTAIN APPROPRIATE EQUIPMENT AND MATERIALS IN A READILY-ACCESSIBLE LOCATION AND CONDITION, TO EFFECTIVELY CONTAIN AND CLEAR UP A DRILLING FLUID FRACTURE OR SPILL.
4. THE CONTRACTOR SHALL AT ALL TIMES DURING DIRECTIONAL DRILLING ACTIVITIES, ENSURE THAT APPROPRIATELY-TRAINED PERSONNEL MONITOR DOWNHOLE EQUIPMENT POSITION, DRILLING FLUID CIRCULATION AND PRESSURES, AND ACTIVELY MONITOR THE ENTIRE UTILITY LINE ROUTE FOR SURFACE FRACTURE OR DRILLING FLUIDS.
5. ALL DRILLING ACTIVITIES SHALL BE DISCONTINUED AND THE DRILLING FLUID OR SLURRY SHALL BE CONTAINED USING APPROPRIATE METHODS AS SOON AS POSSIBLE. IN THE EVENT OF A DRILLING FLUID FRACTURE OR SPILL, REMOVAL OF DRILLING FLUID OR SLURRY FROM WETLANDS AND OTHER SURFACE WATERS SHALL BE INITIATED AND COMPLETED IN THE MOST EXPEDITIOUS MANNER PRACTICAL. REMOVED DRILLING FLUID SHALL BE CONTAINED OR DISPOSED OF IN AN APPROPRIATE UPLAND LOCATION. ANY FRACTURE OR SPILL OF DRILLING FLUID INTO WETLANDS OR OTHER SURFACE WATERS SHALL BE REPORTED TO THE FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION WITHIN 24 HOURS FOLLOWING DETECTION OF THE SPILL OR FRACTURE.
6. CONTRACTOR SHALL STABILIZE AND REPAIR ALL DISTURBED / CLEARED PORTIONS OF THE TEMPORARY CONSTRUCTION EASEMENT AREA REPAIRED AT 8-FOOT ON CENTER WITH 15-GALLON WAX INFILTRATE (TRICRA CERIFERAL) OR DIMER APPROVED EQUIVALENT, WITH MINIMUM PLANT HEIGHT OF 10 FEET AT THE TIME OF PLANTING.

DATE	REVISIONS	DESCRIPTION	DRAWN BY	CHECKED BY
DIVISION: CIVIL PROJECT NUMBER: 17-001 DRAWING NUMBER: 17-001-01 PROJECT: BREVARD COUNTY WATER TREATMENT PLANT IMPROVEMENTS CONTRACTOR: HANSON PROFESSIONAL SERVICES INC. 8005 GOLF PARKWAY WEST, SUITE 204 MELBOURNE, FLORIDA 32909 LICENSE NUMBER: 17001				
EIGHTH EDITION BREVARD COUNTY				
SHEET NO. 2				

GENERAL NOTES

Structure No.: A105W1-105W4
Section 34, Township 27S, Range 36E:
Easement No.: N00400250
Parcel ID:
(Maintained by County Appraiser)

**RIGHT-OF-WAY CONSENT AGREEMENT
(Governmental Entity)**

FLORIDA POWER & LIGHT COMPANY, a Florida corporation ("Company"), with a mailing address at P.O. Box 14000, Juno Beach, Florida 33408-0420, Attn: Corporate Real Estate Department, hereby consents to St. Johns River Water Management District, ("Licensee"), whose mailing address is 4049 Reid Street, Palatka, Florida 32177 using that certain area within Company's right-of-way granted by that certain agreement recorded in Deed Book 50, at Page 359, and Official Record Book 730, at Page 867 Public Records of Brevard County, Florida, as more particularly described on Exhibit A attached hereto ("Lands"). Licensee's use of the Lands shall be solely for the purpose of Crane Creek M-1 Canal Flow Restoration as shown on the plans and specifications submitted by Licensee, and attached to this Right-of-Way Consent Agreement (Governmental Entity) ("Agreement") as Exhibit B, and for no other purpose whatsoever.

In consideration for Company's consent and for the other mutual covenants set forth below, and for Ten Dollars (\$10.00) and other good and valuable consideration, the receipt and adequacy of which is hereby acknowledged, the parties hereto agree as follows:

1. Licensee agrees to obtain all necessary rights from the owners of the Lands in the event Licensee does not own said Lands; to obtain any and all applicable federal, state, and local permits required in connection with Licensee's use of the Lands; and at all times, to comply with all requirements of all federal, state, and local laws, ordinances, rules and regulations applicable or pertaining to the use of the Lands by Licensee pursuant to this Agreement.

2. Licensee understands and agrees that the use of the Lands pursuant to this Agreement is subordinate to the rights and interest of Company in and to the Lands and agrees to notify its employees, agents, and contractors accordingly. Company specifically reserves the right to maintain its facilities located on the Lands; to make improvements; add additional facilities; maintain, construct or alter roads; maintain any facilities, devices, or improvements on the Lands which aid in or are necessary to Company's business or operations; and the right to enter upon the Lands at all times for such purposes. Licensee understands that in the exercise of such rights and interest, Company from time-to-time may require Licensee, to relocate, alter, or remove its facilities and equipment, including parking spaces and areas, and other improvements made by Licensee pursuant to this Agreement which interfere with or prevent Company, in its opinion, from properly and safely constructing, improving, and maintaining its facilities. Licensee agrees to relocate, alter, or remove said facilities, equipment, parking spaces and areas, and other improvements within thirty (30) days of receiving notice from Company to do so. Such relocation, alteration, or removal will be made at the sole cost and expense of Licensee and at no cost and expense to Company; provided however, should Licensee, for any reason, fail to make such relocation, alteration, or removal, Company retains the right to enter upon the Lands and make said relocation, alteration, or removal of Licensee's facilities, equipment, parking spaces and areas, and other improvements and Licensee hereby agrees to immediately reimburse Company for all of its costs and expense incurred in connection therewith upon demand.

3. Licensee agrees that it will not use the Lands in any manner which, in the opinion of Company, may tend to interfere with Company's use of the Lands or may tend to cause a hazardous condition to exist. Licensee agrees that no hazardous substance, as the term is defined in Section 101 (14) of the Comprehensive Environmental Response Compensation and Liability Act ("CERCLA") (42 USC Section 9601 [14]), petroleum products, liquids or flammables shall be placed on, under, transported across or

stored on the Lands, which restricts, impairs, interferes with, or hinders the use of the Lands by Company or the exercise by Company of any of its rights thereto. Licensee agrees further that in the event it should create a hazardous condition, then upon notification by Company, Licensee shall, within seventy-two (72) hours, at its sole cost and expense, correct such condition or situation; provided however that the Company retains the right to enter upon the Lands and correct any such condition or situation at any time and, by its execution hereof, Licensee hereby agrees to indemnify and hold harmless Company from all loss, damage or injury resulting from Licensee's failure to comply with the provisions of this Agreement.

4. Licensee hereby agrees and covenants to prohibit its agents, employees, and contractors from using any tools, equipment, or machinery on the Lands capable of extending greater than fourteen (14) feet above existing grade and further agrees that no dynamite or other explosives shall be used within the Lands and that no alteration of the existing terrain, including the use of the Lands by Licensee as provided herein, shall be made which will result in preventing Company access to its facilities located within said Lands. Unless otherwise provided herein, Licensee agrees to maintain a one hundred and fifty (150) foot wide area, clear of any activities, with a lineal measurement of seventy five (75) feet on each side of the centerline of Company's existing and planned facilities.

5. Licensee understands and agrees that the planting of trees, shrubs, and other foliage capable of exceeding fourteen (14) feet in height at full maturity is not permitted within Company's Lands.

6. Outdoor lighting installed or to be installed upon the Lands by Licensee are not to exceed a height of fourteen (14) feet above existing grade and all poles or standards supporting light fixtures are to be of a non-metallic material.

7. Sprinkler systems installed or to be installed by Licensee upon the Lands are to be constructed of a non-metallic material and sprinkler heads are to be set so the spray height does not exceed fourteen (14) feet above existing grade and does not make contact with any Company's facilities. Aboveground systems shall not be installed within or across Company patrol or finger roads and underground systems crossing said patrol and finger roads are to be buried at a minimum depth of one (1) foot below existing road grade.

8. Licensee agrees to warn its employees, agents, contractors and invitees of the fact that the electrical facilities and appurtenances installed or to be installed by Company within the Lands are of high voltage electricity and agrees to use all safety and precautionary measures when working under or near Company's facilities. Licensee hereby acknowledges the receipt and required execution of Form 360, a copy of which is attached hereto as Exhibit C, prior to the commencement of any construction within the Lands.

9. Licensee agrees, at all times, to maintain and keep the Lands clean and free of debris. Except as provided herein, Licensee further understands and agrees that certain uses of the Lands are specifically prohibited; such uses include but are not limited to recreational purposes, hunting and camping, and Licensee agrees to notify its employees, agents, contractors, and invitees accordingly.

10. The use of the Lands by Licensee shall be at the sole risk and expense of Licensee, and Company is specifically relieved of any responsibility for damage or loss to Licensee or other persons resulting from Company's use of the Lands for its purposes.

11. Notwithstanding any provision contained herein to the contrary, Licensee agrees to reimburse Company for all cost and expense for any damage to Company's facilities resulting from Licensee's use of the Lands and agrees that if, in the opinion of Company, it becomes necessary as a result of Licensee's use of the Lands for Company to relocate, rearrange or change any of its facilities, to promptly reimburse Company for all cost and expense involved with such relocation, rearrangement or change.

12. Licensee agrees it will exercise its privileges hereunder at its own sole risk and agrees subject to the limitations contained in Section 768.28, Florida Statutes, if applicable, to indemnify and save harmless Company, its parent, subsidiaries, affiliates, and their respective officers, directors, agents and employees (collectively, the "FPL Entities"), from all liability, loss, cost, and expense, including attorneys' and paralegals' fees and court costs at all trial and appellate levels, which may be sustained by FPL Entities to any person, natural or artificial, by reason of the death of or injury to any person or damage to any property, arising out of or in connection with the herein described purposes by Licensee, its contractors, agents, or employees; and Licensee agrees subject to the limitations contained in Section 768.28, Florida Statutes, if applicable, to defend at its sole cost and expense and at no cost and expense to FPL Entities any and all suits or action instituted against FPL Entities, for the imposition of such liability, loss, cost and expense.

13. Licensee shall maintain a program of insurance covering its liabilities as prescribed by section 768.28, Florida Statutes. Licensee shall maintain Worker's Compensation Insurance for statutory obligations imposed by applicable laws. Licensee shall furnish Company with a evidence of such insurance coverage before undertaking any activities authorized herein, and Licensee shall provide Company with thirty (30) days written notice before cancellation or non-renewal of the policy.

Licensee shall cause each of Licensee's contractors and subcontractors performing work in connection with the project during the period of this Agreement, to procure and maintain at such contractors' and subcontractors' sole expense, the following minimum insurance, with insurers with a rated "A-, VII" or higher by A.M. Best's Key Rating Guide (i) General Liability insurance with limits of \$3,000,000 for bodily injury or death of person(s) and property damage per occurrence, which shall insure against obligations assumed by contractors and subcontractors in the indemnity provision set forth in Section 12 above, (ii) Workers' Compensation Insurance for statutory obligations imposed by applicable laws, (iii) Employers' Liability Insurance with limits of \$1,000,000 for bodily injury per accident, by disease per policy and disease per employee and, (iv) Automobile Liability Insurance which shall apply to all owned, non-owned, leased and hired automobiles with limits of \$1,000,000 combined single limit. Except for the Workers' Compensation Insurance Licensee shall cause each contractor and subcontractor to name Company as an additional insured and provide for a waiver or subrogation in favor of Company. Upon Licensee's execution of an agreement with a contractor, Licensee shall provide evidence of the contractors' and subcontractors' required insurance coverage in the form of an ACORD certificate to Company evidencing that said policy of insurance is in force and will not be cancelled or non-renewed so as to affect the interest of Company until thirty (30) days written notice has been furnished to Company. Upon request, copies of policies will be furnished to Company by Licensee. Licensee understands and agrees that the use of the Lands for the purposes described herein is expressly contingent upon acceptance and compliance with the provisions contained herein.

Licensee and Licensee's contractors and subcontractors, respectively, shall each be responsible for managing and administering its own insurance policies as required hereunder, including the payment of all deductibles and self-insured retention amounts, the filing of all claims and the taking of all necessary and proper steps to collect any proceeds on behalf of the relevant insured person or entity. Licensee shall at all times keep Company informed of the filing and progress of any claim. If Licensee shall fail to perform these responsibilities Company may take such action as it determines appropriate under the circumstances. In the event Licensee collects proceeds on behalf of other persons or entities, it shall ensure that these are paid directly from the insurers to the relevant person or entity and, in the event that it receives any such proceeds, it shall, unless otherwise directed by Company, pay such proceed to such party forthwith and prior thereto, hold the same in trust for the recipient.

Company assumes no responsibility for the solvency of any insurer or the failure of any insurer to settle any claim. In the event that the Licensee self-insures, Licensee shall provide Company with a letter of self-insurance in form and substance satisfactory to Company's Risk Management Department.

Licensee's contractors and sub-contractor may not self-insure. This section shall survive the expiration or earlier termination of this Agreement.

14. This Agreement will become effective upon execution by Company and Licensee and will remain in full force and effect until completion of Licensee's use of the Lands pursuant to this Agreement, unless earlier terminated upon ninety (90) days written notice by Company to Licensee, or at the option of Company, immediately upon Licensee failing to comply with or to abide by any or all of the provisions contained herein.

15. The use granted herein as shown on Exhibit B shall be under construction by Licensee within one (1) year of the effective date of this Agreement and the construction shall be diligently pursued to completion. Licensee shall give Company ten (10) days prior written notice of its commencement of construction. "Under construction" means the continuous physical activity of placing the foundation or continuation of construction above the foundation of any structure or improvement permitted hereunder. Under construction does not include application for or obtaining a building permit, a site plan approval or zoning approval from the appropriate local government agency having jurisdiction over the activity, purchasing construction materials, placing such construction materials on the site, clearing or grading the site (if permitted) in anticipation of construction, site surveying, landscaping work or reactivating construction after substantially all construction activity has remained stopped for a period of two (2) months or more. Licensee acknowledges that failure to have the use under construction within the one (1) year time period will result in immediate termination of this Agreement in accordance with Section 14 above for failing to comply with the provisions contained herein unless Licensor grants a written extension for a mutually agreed upon time. Any request for an extension of time shall be submitted in writing by Licensee no later than thirty (30) days prior to the expiration of the one (1) year period for the project to be under construction.

16. The term "Licensee" shall be construed as embracing such number and gender as the character of the party or parties require(s) and the obligations contained herein shall be absolute and primary and shall be complete and binding as to each, including its successors and assigns, upon this Agreement being executed by Licensee and subject to no conditions precedent or otherwise.

17. In the event any term or provision of this Agreement is determined by appropriate judicial authority to be illegal or otherwise invalid, such provision shall be given its nearest legal meaning or be construed as deleted as such authority determines, and the remainder of this Agreement shall be construed to be in full force and effect.

18. In the event of any litigation arising out of enforcement of this Agreement, the prevailing party in such litigation shall be entitled to recovery of all costs, charges and expenses of enforcement, including reasonable attorneys' and paralegals' fees and court costs at all trial and appellate levels.

19. This Agreement constitutes the entire Agreement between the parties relative to the transaction contemplated herein and neither this Agreement nor any term or provision hereof may be changed or waived except by an instrument in writing and executed by both Licensee and Company.

20. This Agreement shall be interpreted and enforced in accordance with the laws of the State of Florida.

21. This Agreement may be executed simultaneously or in counterparts, each of which together shall constitute one and the same agreement.

22. This Agreement shall not be construed more strictly against one party than against the other, merely by virtue of the fact that it may have been prepared by counsel for one of the parties, it being recognized that both Licensee and Company have contributed substantially and materially in the negotiation

and preparation of this Agreement, and that the normal rule of construction to the effect that any ambiguities are to be resolved against the drafting party shall not be employed in the interpretation of this Agreement or any exhibits, schedules, addendums or amendments hereto.

23. Licensee may assign its rights and obligations under this Agreement to a solvent party upon prior written consent of Company.

24. Licensee agrees that any review or approval by Company of the plans and/or specifications submitted by Licensee attached hereto as **Exhibit B**, the approval of the identity of any contractors, subcontractors and materialmen, or the delivery by Company of any construction specifications to Licensee, is solely for the purpose of processing this Agreement, and without any representation or warranty whatsoever to Licensee with respect to the adequacy, correctness or efficiency thereof or otherwise and it is understood that such Company's approval does not absolve Licensee of any liability hereunder. Further, Licensee, in connection with the construction, maintenance and/or removal of improvements depicted on **Exhibit B** to this Agreement, agrees to observe and fully comply with all construction, operation and maintenance standards, as well as all applicable laws, rules and regulations of the United States, the State of Florida, and all agencies and political subdivisions thereof, including without limitation, the National Electrical Safety Code and the Occupational Safety & Health Administration regulations, standards, rules, registers, directives or interpretations.

25. This Agreement includes and is subject to the provisions described on the attached Addendum.

The parties have executed this Agreement this 19th day of August, 2020.

Witnesses:

COMPANY:

FLORIDA POWER & LIGHT COMPANY,
a Florida corporation

Patricia A. Mulligan
Signature:
Print Name: Patricia A. Mulligan
Peany M. Schwahl
Signature:
Print Name: Peany M. Schwahl

By: Meier G. Wise
Its: Corporate Real Estate Manager
Print Name: Meier G. Wise

Witnesses:

LICENSEE: ST. JOHNS RIVER
WATER MANAGEMENT DISTRICT

Marjorie F. Hightower
Signature:
Print Name: Marjorie F. Hightower
Andrea Dzioba
Signature:
Print Name: Andrea Dzioba

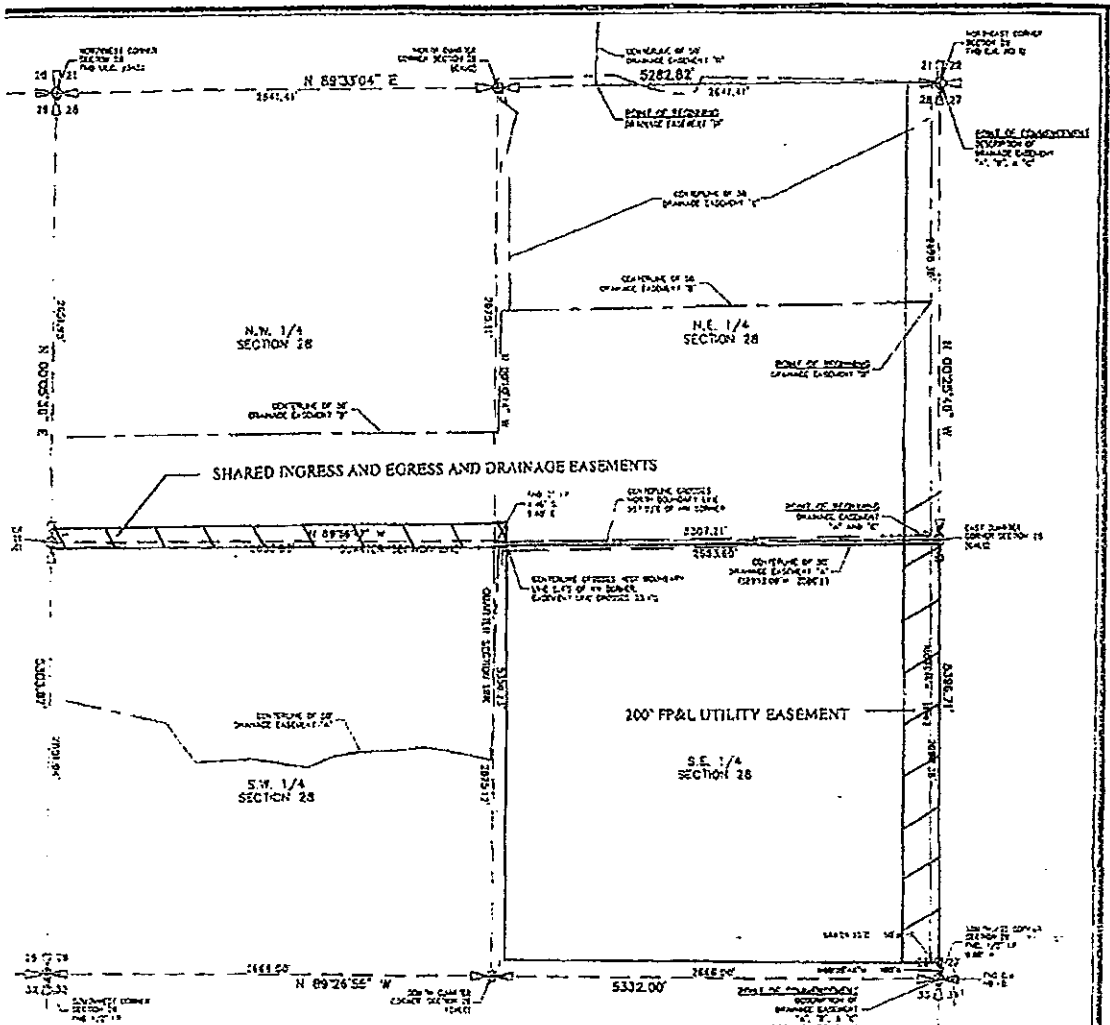
By: Ann B. Shortelle, PhD
Its: Executive Director
Print Name: Ann B. Shortelle, PhD

(Corporate Seal)

EXHIBIT "A"

CRANE CREEK M-1 CANAL FLOW RESTORATION PROJECT

Per the FPL Consent Application Agreement Information for this segment of the project, this letter requests the consent of FPL to cross the existing 60' FPL Transmission Line Easement (ORB 730, PG 867) and the existing 110' FPL Transmission Line Easement (DB 50, PG 359), located west and adjacent to I-95, approximately 2,290' north of Highway 192. The proposed crossing utility will consist of a directional bore 24" DR-11 DIP HDPE HDD stormwater force main constructed within the existing 20' right-of-way. The proposed use is to convey stormwater from the proposed storm water pump station, east of I-95, to a proposed stormwater treatment area west of I-95. Please refer to the enclosed plans for proposed utility location.



SECTIONAL BREAKDOWN



1
Rod w/Plastic Cap
one Cap

DESCRIPTION
The Southeast 1/4 of Section 28, Township 28 South, Range 38 East, St. Johns County, Florida.
1565 1/2 1/2 1/2 1/2

EASEMENTS

Exhibit "B"

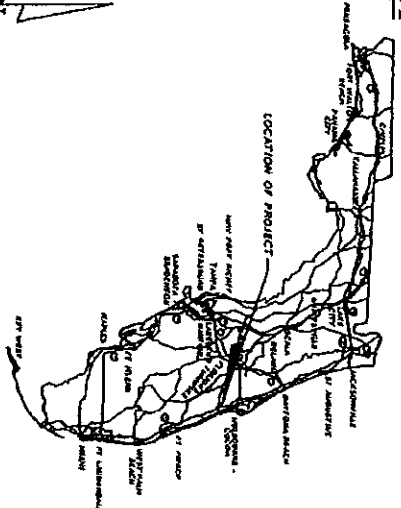
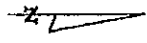
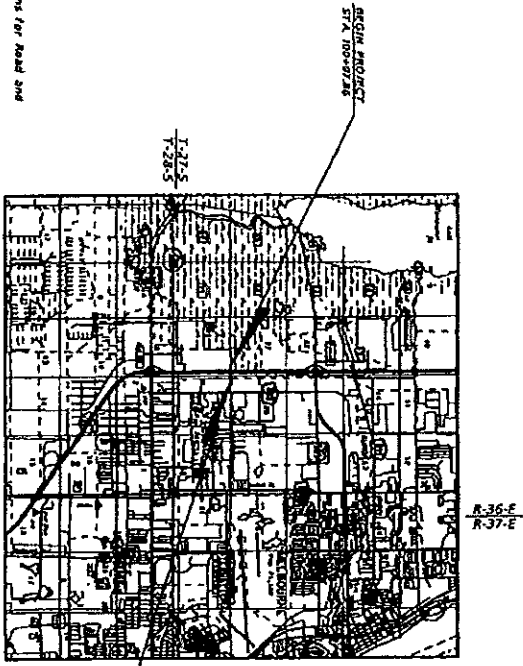
SAINT JOHNS RIVER WATER MANAGEMENT DISTRICT

UTILITY PLANS

**CRANE CREEK M-1 CANAL
FLOW RESTORATION**

INDEX OF UTILITY PLANS

SHEET NO.	SHEET DESCRIPTION
1	KEY SHEET
2	GENERAL NOTES
3-6	UTILITY PLAN
7-10	UTILITY PROFILE
11	SUMMARY OF VERIFIED UTILITIES



GOVERNING STANDARD PLANS:
 Florida Department of Transportation, FDOT's Standard Plans for Road and Bridge Construction and applicable Interim Revisions (IRs).
 Standard Plans for Road Construction and associated IRs are available at the following website: <http://www/fdot.gov/design/standardplans>
APPLICABLE IAS:
 Standard Plans for Bridge Construction are included in the Structures Plans Component.

GOVERNING STANDARD SPECIFICATIONS:
 Florida Department of Transportation, July 2018 Standard Specifications for Road and Bridge Construction at the following website: <http://www.dot.gov/procurement/implementation/3specbooks>

UTILITY PLANS
ENGINEER OF RECORD:
 CLINTON C. SMITH, P.E. NO. 6771
 HANSON PROFESSIONAL SERVICES INC.
 8015 GATE PARKWAY WEST, SUITE 204
 JACKSONVILLE, FL 32216-3685
 (904) 737-0590

Digitally signed
 by Clinton C
 Smith
 Date: 2019.12.12
 16:01:53 -05'00'

SHEET NO.	1
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GENERAL NOTES

1. BENCHMARK ELEVATIONS SHOWN ON THE PLANS ARE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88).
2. THE LOCATIONS OF THE UTILITIES SHOWN IN THE PLANS (INCLUDING THOSE DESIGNATED V, Vn, VnV AND VnVn) ARE BASED ON LIMITED INVESTIGATION TECHNIQUES AND SHOULD BE CONSIDERED APPROXIMATE ONLY. THE VERIFIED LOCATIONS/ELEVATIONS APPLY ONLY AT THE POINTS SHOWN. INTERPOLATIONS BETWEEN THESE POINTS MADE NOT BEEN VERIFIED.
3. UTILITY/AGENCY OWNERS:

COVERAGE

BREVARD COUNTY PUBLIC WORKS - TRAFFIC SIGNALS & FIBER
 BREVARD COUNTY GAS - GAS
 FLORIDA CITY GAS - GAS
 FLORIDA GAS TRANS. - MELBOURNE - GAS PIPELINE
 FLORIDA POWER & LIGHT - BREVARD - ELECTRIC
 LEVEL 3 COMMUNICATIONS - FIBER OPTIC
 CITY OF MELBOURNE UTILITIES ADMINISTRATION - WATER DISTRIBUTION
 CITY OF MELBOURNE UTILITIES ADMINISTRATION - WASTEWATER REUSE
 CITY OF MELBOURNE UTILITIES ADMINISTRATION - SEWAGE COLLECTION
 CENTURILINK (FORMERLY WEST COMMUNICATIONS) - FIBER OPTIC
 AT&T DISTRIBUTION - TELEPHONE
 UNIFI FIBER LLC - FIBER OPTIC
 BRIGHT HOUSE NETWORKS, LLC BREVARD - FIBER OPTIC
 CITY OF WEST MELBOURNE - WATER
 CITY OF WEST MELBOURNE - SEWER
 CROWN CASTLE FIBER

TELEPHONE NUMBERS

(321) 633-2077
 (321) 638-2424
 (407) 838-2711
 (386) 396-6403
 (877) 366-8344 x3
 (321) 608-3106
 (321) 608-3106
 (302) 992-9831
 (941) 997-0240
 (321) 355-0807
 (321) 757-6485
 (321) 837-7771
 (321) 884-0885
 (786) 910-7059

4. SPECIAL EVENT DAYS FOR THIS PROJECT INCLUDE: TBD

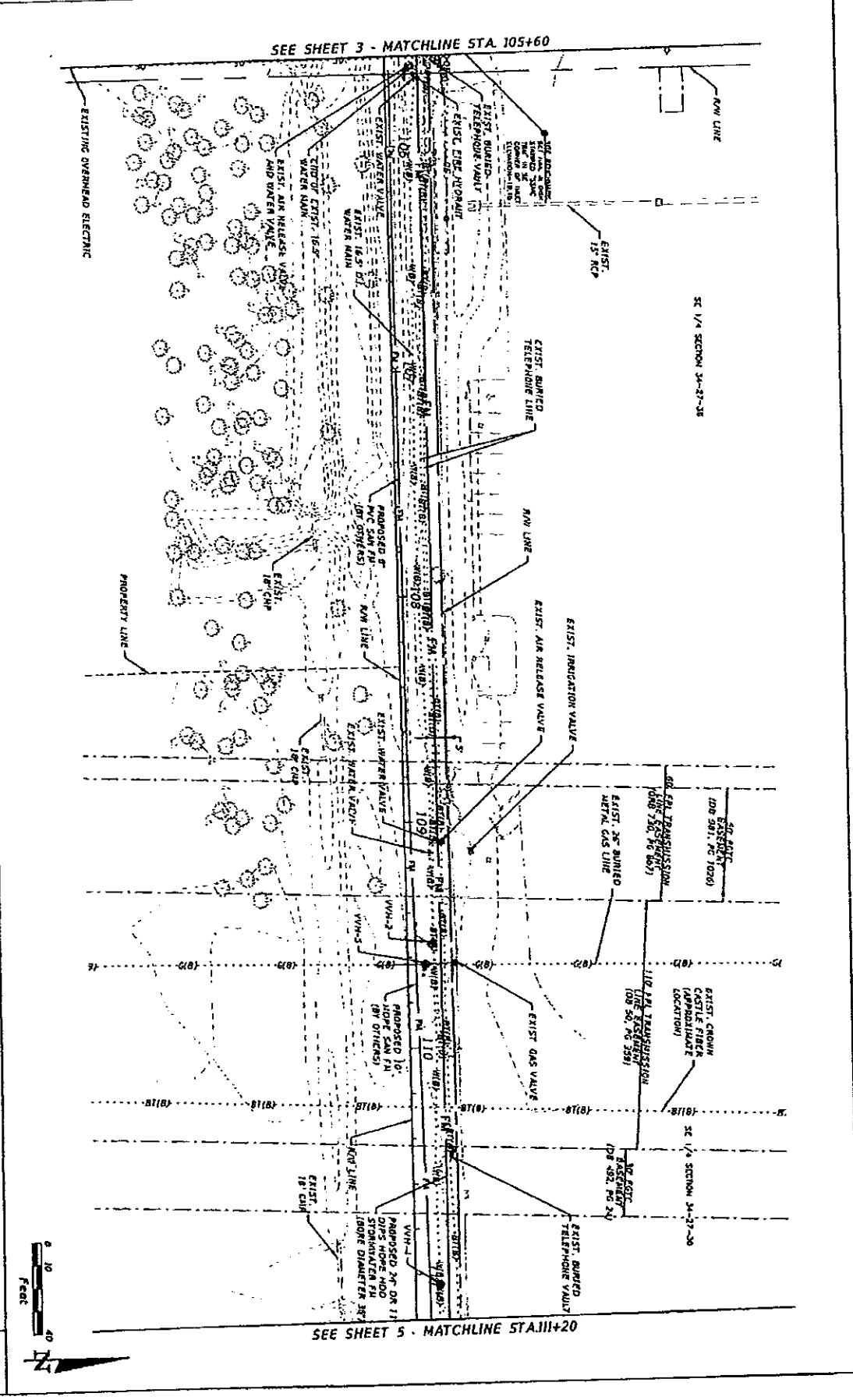
DATE	REVISION	DESCRIPTION	BY	CHECKED	DATE	GENERAL NOTES	SHEET NO.
							2

CLYDE C. SMITH, JR.
 P.E. LICENSE NUMBER 6711
 HANSON PROFESSIONAL SERVICES INC.
 4015 GATE PARKWAY WEST, SUITE 204
 JACKSONVILLE, FL 32218-3843
 CERTIFICATE OF AUTHORIZATION 0000004

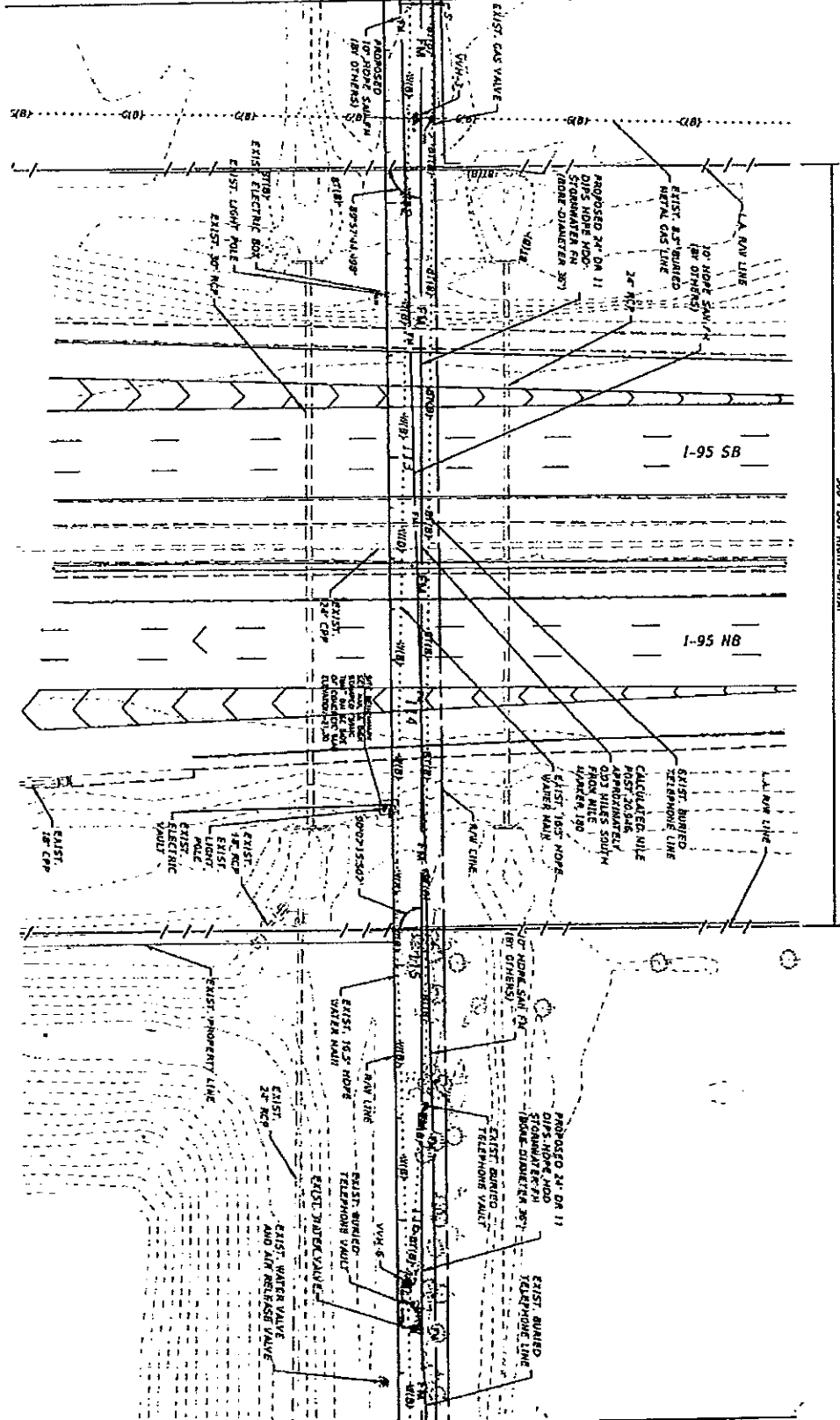
PROJECT: BREVARD

GENERAL NOTES

DATE	REVISION	DESCRIPTION	DRAWN BY	CHECKED BY	DATE
CLIENT: DAUGHTON C. SMITH, JR. PROJECT: WATER MAIN AND GAS MAIN ADDRESS: 1000 S. W. 10TH AVE., SUITE 204 MIAMI, FL 33135-3344 CONTRACT NO. 123456789			COUNTY: DADE CITY: MIAMI		
UTILITY PLAN					
SHEET NO.	4				DATE



SEE SHEET 4 - MATCHLINE STA. 111+20



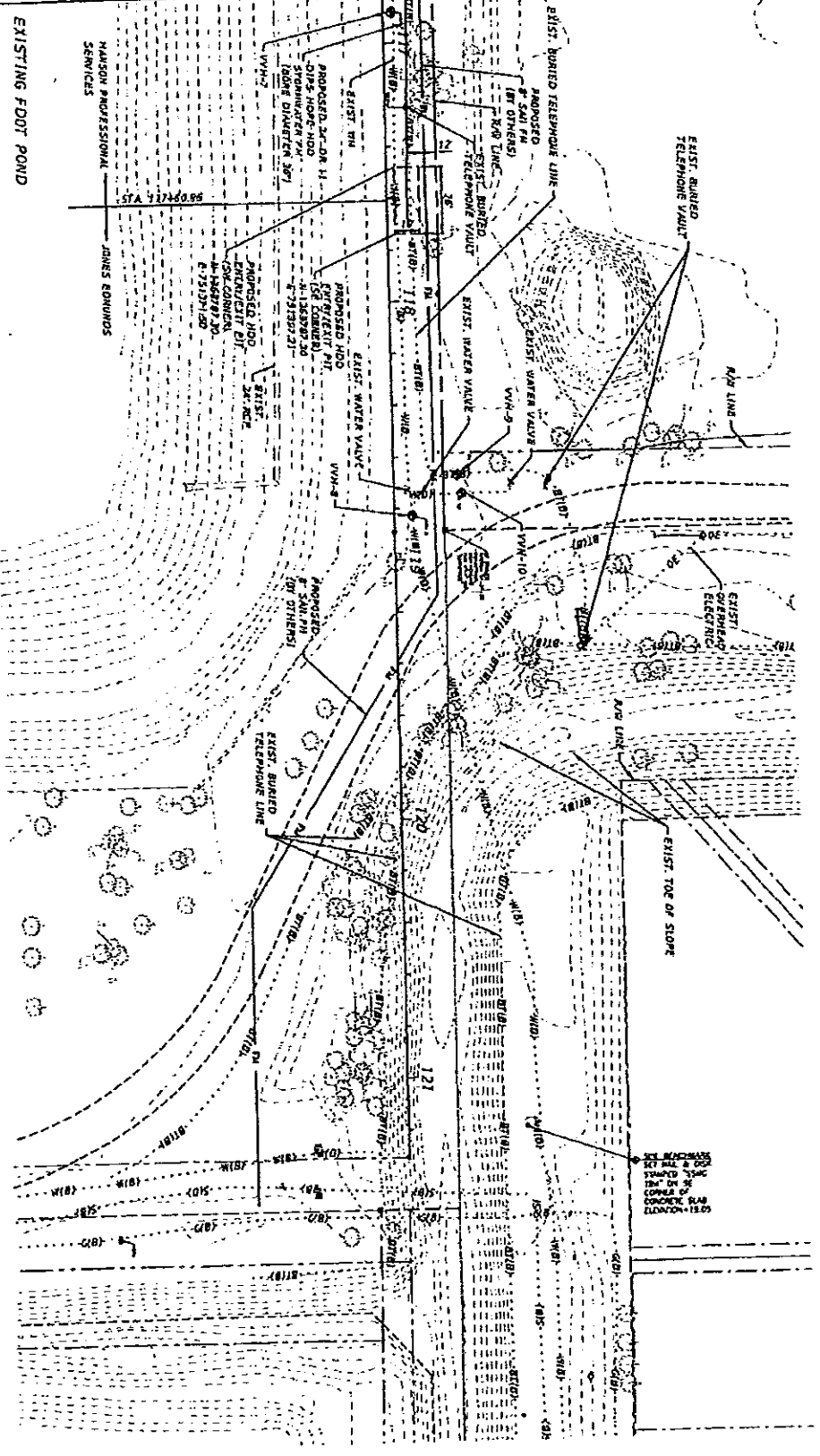
SEE SHEET 6 - MATCHLINE STA. 116+80

300' 1200' RIGHT-OF-WAY

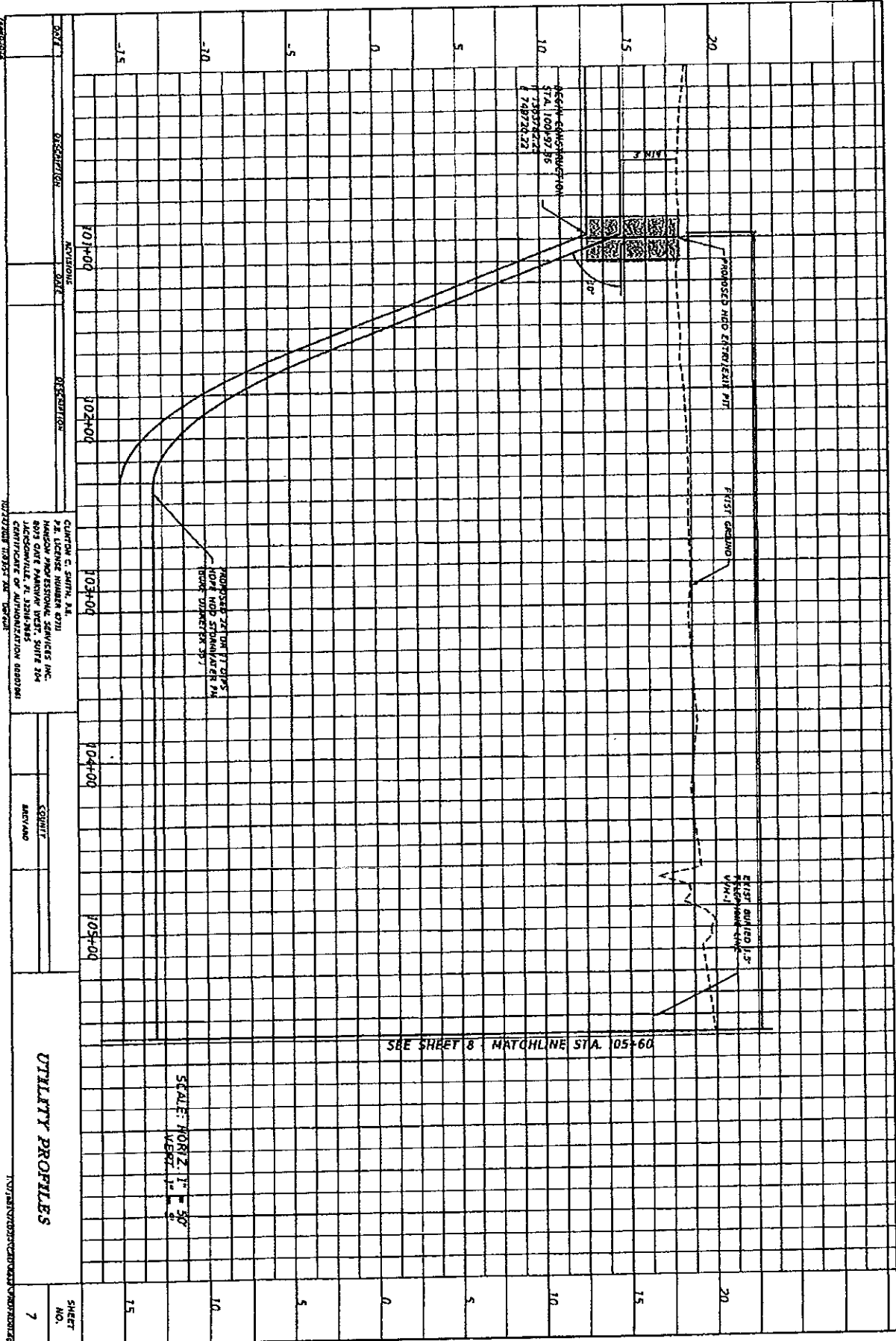


DATE:	REVISIONS	DRAWN BY:	CHECKED BY:	SCALE:	PROJECT NO.:	SHEET NO.:	5
	DESCRIPTION:						
	CLINTON C. SMITH, M.E. P.E. LICENSE NUMBER 6711 HANSON PROFESSIONAL SERVICES, INC. 8875 GATE PARKWAY WEST, SUITE 304 JACKSONVILLE, FL 32216-2845 CERTIFICATE OF AUTHORIZATION NUMBER						
	DATE: DRAWN BY: CHECKED BY:						
UTILITY PLAN							

SEE SHEET 5 - MATCHLINE STA 116+80



DATE	DESCRIPTION	REVISIONS	DATE	DESCRIPTION
CLINTON C. SMITH, P.E. P.E. LICENSE NUMBER 6718 HANSON PROFESSIONAL SERVICES INC. 805 S.W. 77th Avenue, Suite 204 Fort Lauderdale, Florida 33309 CERTIFICATE OF AUTHORIZATION 0000798				
	COUNTY			
	BRVARD			
UTILITY PLAN				
SHEET NO.				
5				



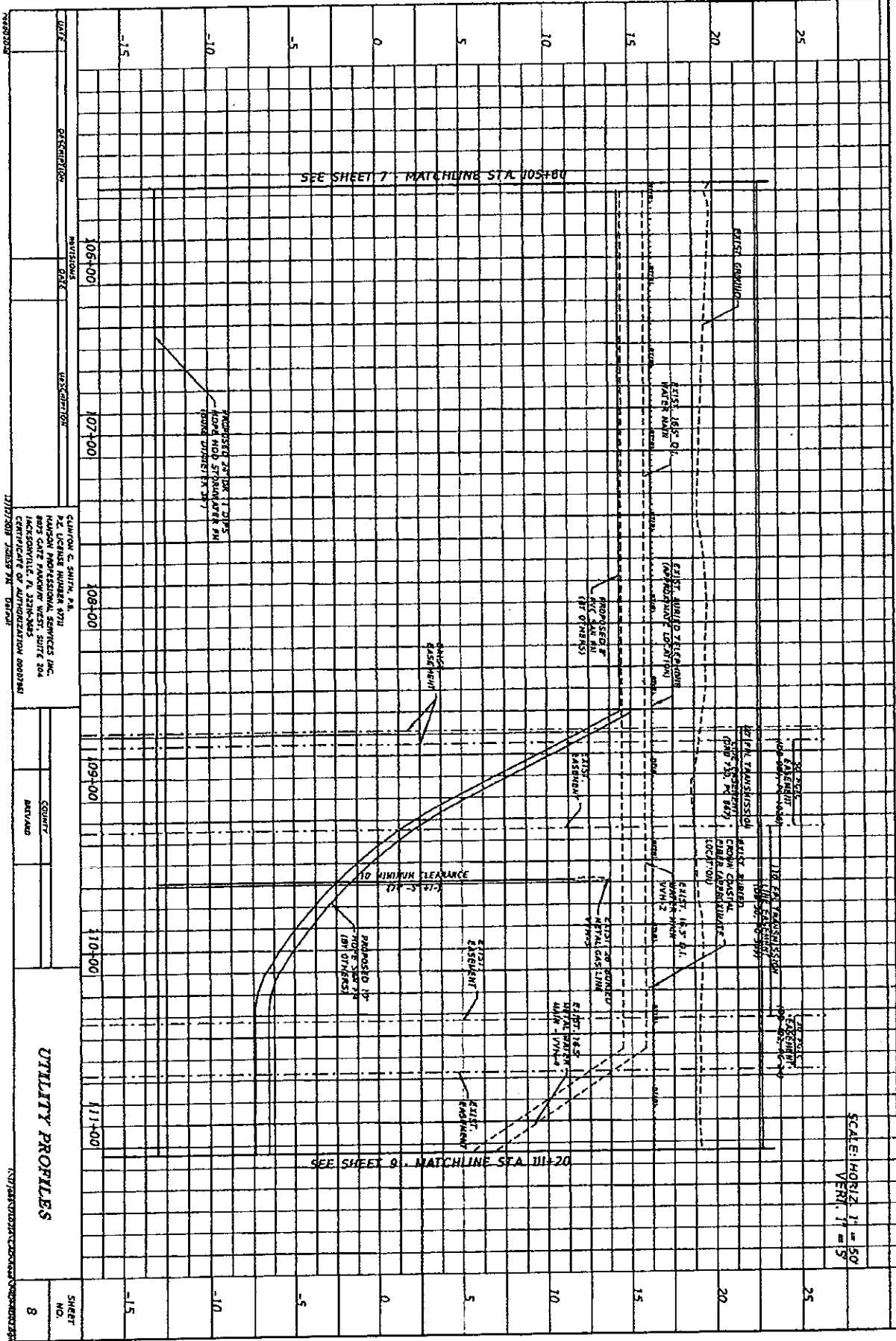
DATE	DESCRIPTION	BY	CHECKED	SCALE	SHEET NO.
10/14/00	ACQUISITION				7
10/24/00	DESCRIPTION				
10/31/00					
10/4/00					
10/5/00					

QUINCY C. SMITH, P.E.
 P.E. LICENSE NUMBER 6711
 HANSON PROFESSIONAL SERVICES INC.
 805 ONE PARKWAY WEST, SUITE 204
 JACKSONVILLE, FL 32216-8882
 PHONE: 904-731-1111
 FAX: 904-731-1112
 WWW: WWW.HANSONPROFESSIONALSERVICES.COM

UTILITY PROFILES
 INTERVENING CONTRACT NUMBERS

SCALE: HORIZ. 1" = 30'
 VERT. 1" = 5'

SEE SHEET 8 MATCHLINE STA. 05+60



SEE SHEET 7 MATCHLINE STA 105+80
 SEE SHEET 9 MATCHLINE STA 111+20

UTILITY PROFILES

SHEET NO. 8

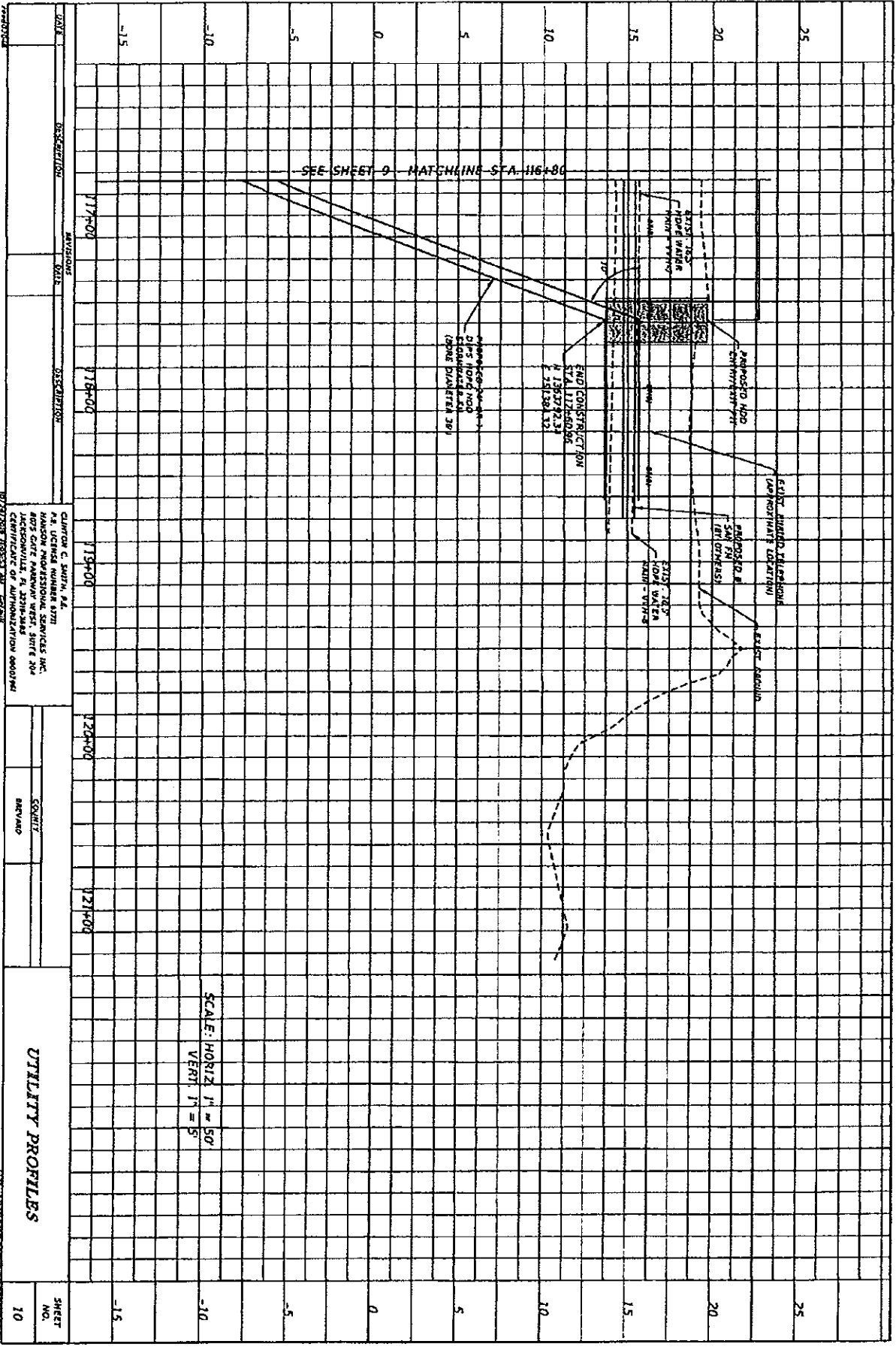
P.L. LICENSE NUMBER 8711
 HANSON PROFESSIONAL SERVICES INC.
 8075 GATE PARKWAY WEST, SUITE 304
 JACKSONVILLE, FL 32216-8485
 CERTIFICATE OF AUTHORIZATION 00001848

COUNTY: BAYLARD
 DATE: 11/17/2018 10:55:37 AM

SCALE: HORIZ. 1" = 50'
 VERT. 1" = 5'

DESIGNER: GAT
 CHECKER: GAT

DATE: 11/17/2018 10:55:37 AM



SEE SHEET 9 MATCHING STA. 116+80

SCALE: HORIZ 1" = 50'
 VERT 1" = 5'

UTILITY PROFILES

DATE	DESCRIPTION	BY	CHECKED	SCALE	SHEET NO.
07/27/2008	AS SHOWN	CONSTRUCTION	CONSTRUCTION	AS SHOWN	10

STATIONED AT
 P. E. LICENSE NUMBER 1771
 HANSON PROFESSIONAL SERVICES INC.
 405 GATE PARKWAY WEST, SUITE 204
 JACKSONVILLE, FL 32216-2845
 CERTIFICATE OF AUTHORIZATION 0000704

CONSTRUCTION
 DRAWING

NO. 2008 UTILITY CONSTRUCTION DRAWING

SUMMARY OF VERIFIED UTILITIES

VW#	UTILITY DESCRIPTION (Owner, Type)	SIZE	MATERIALS	STATION	Offset &	LT/RT	EXISTING GROUND ELEVATION	TOP ELEVATION	COMMENTS
VW#-1	RM, BREVARD COUNTY BT, AT&T	1.5"	DGC	105+50.00	11.07	LT	18.89	16.44	
VW#-2	GM, ENERGY TRANSFER	16.5"	D/G	109+54.06	11.13	LT	18.89	15.82	
VW#-3	RM, BREVARD COUNTY	8.5"	NET	117+46.92	12.62	LT	19.01	12.76	
VW#-4	RM, BREVARD COUNTY	16.5"	NET	111+04.71	10.96	LT	18.88	8.13	
VW#-5	GM, ENERGY TRANSFER	7.5"	NET	109+63.32	8.05	LT	18.86	12.61	
VW#-6	RM, BREVARD COUNTY	16.5"	HDPE	116+24.59	3.59	LT	18.78	14.88	
VW#-7	RM, BREVARD COUNTY	16.5"	HDPE	116+40.02	3.35	LT	18.72	15.68	
VW#-8	RM, BREVARD COUNTY	16.5"	HDPE	116+43.45	7.15	LT	18.01	15.78	
VW#-9	BT, AT&T	1"	DGC	112+67.90	25.38	LT	19.00	16.25	
VW#-10	RM, BREVARD COUNTY	16.5"	HDPE	118+74.68	27.09	LT	19.02	14.85	

DATE	REVISIONS	DESCRIPTION	BY	CHKD

CLIENT: C. SMITH, JR.
 225 NORTH AVENUE, SUITE 111
 JACKSONVILLE, FL 32209-2885
 CERTIFICATES OF AUTHORIZATION 00000000

CONTRACT
 BREVARD

SUMMARY OF VERIFIED
 UTILITIES

EXHIBIT "C"



FPL

NOTIFICATION OF FPL FACILITIES

Customer/Agency _____
 Developer/Contractor Name _____
 Location of Project _____
 FPL Representative _____
 Developer/Contractor Representative _____

Date of Meeting/Contact _____
 Project Number/Name: _____
 City: _____
 Phone: _____
 FPL Work Request #/Work Order #: _____

FPL calls your attention to the fact that there may be energized, high voltage electric lines, both overhead and underground, located in the area of this project. It is imperative that you visually survey the area and that you also take the necessary steps to identify all overhead and underground facilities prior to commencing construction to determine whether the construction of any proposed improvements will bring any person, tool, machinery, equipment or object closer to FPL's power lines than the OSHA-prescribed limits. If it will, you must either re-design your project to allow it to be built safely given the pre-existing power line location, or make arrangements with FPL to either deenergize and ground our facilities, or relocate them, possibly at your expense. You must do this before allowing any construction near the power lines. It is impossible for FPL to know or predict whether or not the contractors or subcontractors, and their employees, will operate or use cranes, digging apparatus or other mobile equipment, or handle materials or tools, in dangerous proximity to such power lines during the course of construction, and, if so, when and where. Therefore, if it becomes necessary for any contractor or subcontractor, or their employees, to operate or handle cranes, digging apparatus, draglines, mobile equipment, or any other equipment, tools or materials in such a manner that they might come closer to underground or overhead power lines than is permitted by local, state or federal regulations, you and any such contractor or subcontractor must notify FPL in writing of such planned operation prior to the commencement thereof and make all necessary arrangements with FPL in order to carry out the work in a safe manner. Any work in the vicinity of the electric lines should be suspended until these arrangements are finalized and implemented.

The National Electrical Safety Code ("NESC") prescribes minimum clearances that must be maintained. If you build your structure so that those clearances cannot be maintained, you may be required to compensate FPL for the relocation of our facilities to comply with those clearances. As such, you should contact FPL prior to commencing construction near pre-existing underground or overhead power lines to make sure that your proposed improvement does not impinge upon the NESC clearances.

It is your responsibility and the responsibility of your contractors and subcontractors on this project to diligently fulfill the following obligations:

1. Make absolutely certain that all persons responsible for operating or handling cranes, digging apparatus, draglines, mobile equipment or any equipment, tool, or material capable of contacting a power line, are in compliance with all applicable state and federal regulations, including but not limited to U.S. Department of Labor OSHA Regulations, while performing their work.
2. Make sure that all cranes, digging apparatus, draglines, mobile equipment, and all other equipment or materials capable of contacting a power line have attached to them any warning signs required by U.S. Department of Labor OSHA Regulations.
3. Post and maintain proper warning signs and advise all employees, new and old alike, of their obligation to keep themselves, their tools, materials and equipment away from power lines per the following OSHA minimum approach distances (refer to OSHA regulations for restrictions):

Power Line Voltages	Personnel and Equipment (29 CFR 1910.333 and 1925.600)	Cranes and Derricks (29 CFR 1926.1407, 1409)	Travel under or near Power Lines (on construction sites, no load) (29 CFR 1925.600 - Equipment) (1926.1411 - Cranes and Derricks)	
0 - 750 volts	10 Feet	10 Feet	4 Feet	4 Feet
751 - 50,000 volts	10 Feet	10 Feet	4 Feet	6 Feet
69,000 volts	11 Feet	15 Feet	10 Feet	10 Feet
115,000 volts	13 Feet	15 Feet	10 Feet	10 Feet
138,000 volts	13 Feet	15 Feet	10 Feet	10 Feet
230,000 volts	16 Feet	20 Feet	10 Feet	10 Feet
500,000 volts	25 Feet	25 Feet	16 Feet	16 Feet

*When uncertain of the voltage, maintain a distance of 20 feet for voltages up to 350,000 volts and 50 feet for voltages greater than 350,000 volts.
 **For personnel approaching insulated secondary conductors less than 750 volts, avoid contact (Maintain 10 Feet to bare energized conductors less than 750 volts) For qualified personnel and insulated aerial lift equipment meeting requirements of 29 CFR 1910.333, distances may be reduced to those shown in 29 CFR 1910.333 Table S-5.

4. All excavators are required to contact the Sunshine State One Call of Florida, phone number 1-800-432-4770 or 811 a minimum of two working days (excluding weekends) in advance of commencement of excavation to ensure facilities are located accurately.
5. Conduct all locations and excavations in accordance with the Florida Statute 555 of the Underground Facilities Damage Prevention & Safety Act and all local city and county ordinances that may apply.
6. When an excavation is to take place within a tolerance zone, an excavator shall use increased caution to protect underground facilities. The protection requires hand digging, pot holing, soft digging, vacuum methods, or similar procedures to identify underground facilities.

A copy of this notification must be provided by you to each contractor and subcontractor on this project, to be shared with their supervision and employees prior to commencing work on this project.

Means by which this notification was provided to customer and/or contractor _____

Address _____

FPL Representative Signature _____

Date _____

Customer/Developer/Contractor Representative Signature _____

Date _____

Structure No.: A105w1-105w4
Section 34, Township 27S, Range 36E
Easement No.: n00400250

AMENDMENT TO RIGHT OF WAY CONSENT AGREEMENT

This Amendment to Right of Way Consent Agreement (“**Amendment**”) is made this ____ day of _____, 2022 (“**Effective Date**”), by and between FLORIDA POWER & LIGHT COMPANY, a Florida corporation (“**Company**”), and St. Johns River Water Management District (“**Licensee**”).

RECITALS

WHEREAS, Company and Licensee entered into that certain Right of Way Consent Agreement dated August 19, 2020 (“**Agreement**”).

WHEREAS, the parties wish to amend the Agreement as more specifically set forth herein.

NOW, THEREFORE, in consideration of the foregoing and other good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, the parties hereby agree as follows:

1. **Recitals.** The foregoing recitals are true and correct and incorporated herein by this reference. Any defined terms used, but not defined herein, shall have their same meanings given to such terms in the Agreement.

2. **Termination.** Paragraph 14 of the Agreement is hereby revised to reflect that this Agreement shall terminate upon the earlier of: (i) the date Licensee ceases to use the Lands for its permitted use hereunder, or (ii) in the event Licensee is in default of this Agreement, and fails to cure such default within thirty (30) days after Company provide notice of such default.

3. **Start of Construction.** Paragraph 15 of the Agreement is hereby revised to reflect that the time period for Licensee to be “under construction” is extended to December, 2023 (2) years of the Effective Date of this Amendment.

4. **No Other Modifications.** Except as expressly modified by this Amendment, the Agreement remains in full force and effect and is unmodified. In the case of any conflicts between the terms of the Agreement and this Amendment, the terms of this Amendment shall control. This Amendment may be executed in several counterparts, each of which shall be deemed an original but together shall constitute one agreement. A facsimile or electronic signature shall be deemed to have the effect of an original to the party so delivering such signature.

{Signature Page Follows}

IN WITNESS WHEREOF, the parties have executed this Amendment the day and year first written above.


WITNESSES:

Print Name: _____

Print Name: _____

WITNESSES:


Print Name: Andrea Dzioba


Print Name: Heather Barnes


COMPANY:

Florida Power & Light Company,
a Florida corporation

By: 
Name: Meier G. Wise
Its: Project Director, Real Estate

LICENSEE:

St. Johns River Water Management
District

By: 
Name: Michael A. Register
Its: Executive Director



Phone: (321) 637-5437
Inspections:(321) 633-2079

PERMIT #: 20RW00261

ISSUED: 10/12/2022

EXPIRES: 10/12/2023

**BREVARD COUNTY PUBLIC WORKS RIGHT-OF-WAY AND EASEMENT PERMIT
PERMIT TO BE POSTED AT JOB**

SITE ADDRESS: M-1 CANAL
MELBOURNE AND W. MELBOURNE FL

SUBDIVISION NAME:

DESCRIPTION OF WORK: CONSTRUCTION OF WEIR WITHIN THE M-1 CANAL (SOUTH OF HIBISCUS BLVD & EAST OF EVANS RD) & INSTALLATION OF STORMWATER FM WITHIN THE M-1 CANAL & UNNAMED COUNTY R/W WEST OF I-95 NEAR SJHP NORTHERN SEGMENT.

OWNER: SJRWMD/MARC VAN HEDEN, PE
PHONE:(321)676-6604
OWNER ADDRESS: 525 COMMUNITY COLLEGE WAY
PALM BAY FL 32929

APPLICANT/CONTRACTOR: SJRWMD/MARC VAN HEDEN, PE
PHONE:(321)676-6604
ADDRESS: 525 COMMUNITY COLLEGE WAY
PALM BAY FL 32929

BY ACCEPTANCE/ISSUANCE OF THIS PERMIT, THE PERMITEE AGREES TO THE TERMS AND CONDITIONS OF THIS PERMIT. PERMITEE RESPONSIBLE FOR DAMAGES TO ROAD/EASEMENTS DURING CONSTRUCTION.

OPEN PITS MUST BE COMPLETED WITHIN 10 DAYS OF EXCAVATION. NO EXCAVATION WITHIN 4 FT OF EDGE OF PAVEMENT.

RESTORE AND SOD ALL AREAS DISTURBED BY CONSTRUCTION IN COUNTY RIGHT-OF-WAY OR EASEMENT.

MAINTAIN PROPER MAINTENANCE OF TRAFFIC FOR THE ROADWAY AND SIDEWALKS PER FDOT DESIGN STANDARDS, LATEST EDITION.

PERMIT MUST BE ON-SITE FOR ALL INSPECTIONS. IF PERMIT IS UNAVAILABLE ON-SITE, THE SCHEDULED INSPECTION WILL NOT BE PERFORMED AND YOU WILL BE ASSESSED A \$75.00 REINSPECTION FEE WHICH WILL BE DUE PRIOR TO RESCHEDULING.

RIGHT-OF-WAY INSPECTIONS OFFICE MUST BE NOTIFIED 48 HOURS PRIOR TO START DATE ON UTILITY CONSTRUCTION AND COMMERCIAL PROJECTS. FOR COMMERCIAL SITE AND RIGHT-OF-WAY INSPECTIONS, PLEASE CALL (321) 633-2079.

RESIDENTIAL PRE-POUR AND FINAL INSPECTIONS MUST BE CALLED IN 24 HOURS IN ADVANCE AND BY 4:30 PM TO BE INSPECTED THE FOLLOWING BUSINESS DAY. PHONE (321) 633-2079.

APPLICANT MUST COMPLY WITH F.S.556 FOR UTILITY LOCATION INFORMATION.

NORMAL WORKING HOURS ARE FROM 7:00 AM TO 6:00 PM MONDAY-FRIDAY. AFTER HOURS INSPECTION RATES WILL BE ASSESSED AT \$100.00 PER HOUR, WITH A MINIMUM OF 4 HRS. ALL AFTER HOURS INSPECTION REQUESTS MUST BE SUBMITTED IN WRITING TO BREVARD COUNTY PUBLIC WORKS ENGINEERING A MINIMUM OF 72 HRS PRIOR TO START OF AFTER HOURS WORK.

PERMIT CONDITIONS:

City of Melbourne



Engineering Department

900 E. Strawbridge Avenue • Melbourne, FL 32901 • (321) 608-7300 • Fax (321) 608-7319

September 3, 2020

Richard Koller
Jones Edmunds
3910 S. Washington Ave.
Titusville, FL 32780

The construction plans submitted July 14, 2020 for Crane Creek M-1 Canal Flow Restoration - City Project No. IF 20-01 are substantially approved with the stipulations listed below. Substantially approved plans will expire one year from the date of this letter.

- **The License Agreement must be approved by City Council prior to final plan approval.**

No further plan submittals are required for this project. However, the following items are still needed prior to plan approval:

- Inspection Fee - \$2053.00
- Overtime Inspection Bond - \$500.00
- As-built Inspection Bond - \$850.00
- Right of Way Restoration Bond - \$1,000.00

All fees listed above may be submitted on one check made payable to the City of Melbourne.

The applicant or Engineer-of-Record must have a preconstruction conference prior to starting work on this project. All designated items listed above are required prior to release of approved plans. Plan approval will be subject to other stipulations discussed at the preconstruction conference.

You may call Tricia Peebles (321-608-7300) at least seven days prior to the desired date of the conference, in order to schedule the preconstruction conference.

It is important for the contractor(s) to attend this meeting. Please coordinate a date that is convenient to you and the contractor(s). The underground utility contractor must attend or the meeting will be cancelled. Meeting times are usually scheduled Monday through Thursday for 10:00 a.m. or 2:00 p.m.

Sincerely,

A handwritten signature in green ink, appearing to read 'J. Danielle Straub', is written over the word 'Sincerely,'.

J. Danielle Straub, P.E.
Engineering Project Manager

c: City Engineer, D. Wilkison, P.E.
Applicant of Record, Dr. Ann B. Shortelle, PhD
Plan Reviewers

Assistant City Engineer, K. Cunningham, P.E.
Owner of Record, Shannon Lewis

MAYOR
Hal J. Rose

DEPUTY MAYOR
John Dittmore

COUNCIL MEMBERS
Daniel Batchelder
Pat Bentley
Adam Gaffney
Barbara A. Smith
Andrea Young



Planning & Economic Development
Department
Christy Fischer, Planning Director
City Hall
2240 Minton Road
West Melbourne, FL 32904
Phone: (321) 837-7778
Fax: (321) 768-2390
www.westmelbourne.org

April 22, 2020

VIA US MAIL AND E-MAIL
RKoller@jonesedmunds.com

Richard Koller
Jones Edmonds
3910 S. Washington Ave.
Suite 210
Titusville, FL, 32780

RE: SJRWMD M-1 Canal Diversion Project and Pump Station-Site Plan Approval

Dear Mr. Koller:

After review of the site plan for the M-1 Canal Diversion Project staff has determined that the site plan is consistent with the Land Development Regulations (LDRs). All staff comments have been adequately addressed. The following **condition** is applicable to the approval:

- As-builts are to be submitted to the city and necessary easements and bill of sale will be required near the completion of the project. We understand that the SJRWMD has already been in contact with our City Attorney about the bill of sale. There will be additional exhibits to be submitted with the easement and bill of sale that our City Engineer, Eric Flavell can address.

There are two (2) stamped approved site plans for the applicant or contractor, with one being mailed to you and the other going to Marc Van Heden of SJRWMD.

Contact Nat Davila, Construction Inspector, at (321) 837-7777 to schedule a required pre-construction meeting. The pre-construction meeting must be held prior to issuance of building permits or commencement of construction. Please schedule this meeting in a timely matter as it may delay issuance of building permits. This pre-construction meeting may need to include our City Manager and Deputy City Manager to assure coordination occurs about the City's utility project in the same underground passage under I-95.

Should any other regulatory agency require any other changes to any permitted

MAYOR
Hal J. Rose

DEPUTY MAYOR
Andrea Young

COUNCIL MEMBERS
Diana Adams
Pat Bentley
John Dittmore
Daniel McDow
Stephen Phrampus



Planning & Economic Development Department
Christy Fischer, Planning Director
City Hall
2240 Minton Road
West Melbourne, FL 32904
Phone: (321) 837-7778
Fax: (321) 768-2390
www.westmelbourne.org

October 6, 2022

VIA US MAIL AND E-MAIL
RKoller@jonesedmunds.com

Rich Koller, PE
Jones Edmunds and Associates, Inc.
3910 S. Washington Avenue, Suite 210
Titusville, FL 32780

RE: St. Johns River Water Management District West I-95 Pond & Pump – Site Plan Approval (SIT #2022-06)

Dear Mr. Koller:

After review of the site plan for St Johns River Water Management District West I-95 Pond & Pump, all staff comments have been addressed and the site plan is approved. There are two (2) stamped approved site plans for the applicant or contractor which can be picked up from Administrative Assistant, Stefanie Lascoux, at City Hall.

Contact Francois Philippe, Construction Inspector, at (321) 837-3710 to schedule a required pre-construction meeting. The pre-construction meeting must be held prior to issuance of building permits or commencement of construction. Please schedule this meeting in a timely matter as it may delay issuance of building permits.

Should any other regulatory agency require any other changes to any permitted utility, infrastructure system, or habitat protection, the permittee shall provide written notification to the City of West Melbourne prior to implementation so that a determination can be made whether a plan approval modification is required.

All other applicable state or federal permits must be obtained before development commences.

The issuance of the site plan does not in any way create any right on the part of an applicant to obtain a permit from a state or federal agency and does not create any liability on the part of the City for issuance of the permit if the applicant fails to obtain requisite approvals or fulfill the obligations imposed by a state or federal agency or undertakes actions that result in a violation of state or federal law.

Please feel free to contact me with any questions at (321) 837-7778, or by email at cfischer@westmelbourne.org.

Sincerely,

A handwritten signature in black ink that reads "Christy Fischer". The signature is written in a cursive, flowing style.

Christy Fischer, Planning Director



FLORIDA DEPARTMENT OF Environmental Protection

CENTRAL DISTRICT OFFICE
3319 MAGUIRE BLVD., SUITE 232
ORLANDO, FLORIDA 32803

Ron DeSantis
Governor

Jeanette Nuñez
Lt. Governor

Shawn Hamilton
Secretary

July 1, 2022

Michael Register
PO Box 1429
Palatka, FL 32178
mregister@sjrwmd.com

File No. 384808-004, Brevard County

Dear Mr. Michael Register:

On **February 10, 2022**, we received your notice of intent to use a General Permit (GP), pursuant to Rule 62-331.220, Florida Administrative Code (F.A.C.), to to install 24-inch pipe via horizontal directional drilling with some open trench which will impact approximately 0.08-acre wetlands. The activities authorized by this permit are located at St. Johns Heritage Pkwy between Sr-500, Melbourne, FL 32904, Section 34, Township 27 South, Range 36 East, Brevard County, at latitude 28° 5' 12.5573", longitude - 80° 42' 57.799".

Your intent to use a general permit has been reviewed by Department staff for State 404 Program authorization. **Your project qualifies for authorization.** However, this letter does not relieve you from the responsibility of obtaining other federal, state, or local authorizations that may be required for the activity.

State 404 Program Review – Approved

Based on the forms, drawings, and documents **submitted** with your notice, it appears that the project meets the requirements for the General Permit under Rule 62-331.220, F.A.C. Any activities performed under a general permit are subject to general conditions required in Rule 62-331.201, F.A.C., the conditions of Rule 62-331.220, F.A.C. (attached), and any specific conditions, below. Any deviations from these conditions may subject the permittee to enforcement action and possible penalties. Please read each section carefully.

Please be advised that the construction phase of the GP must be completed by December 22, 2025. State 404 Program permits cannot be extended or renewed.

Specific Conditions

1. If prehistoric or historic artifacts, such as pottery or ceramics, projectile points, dugout canoes, metal implements, historic building materials, or any other physical remains that could be associated with Native American, early European, or American settlement are encountered at any time within the project site area, the permitted project shall cease all activities involving subsurface disturbance in the vicinity of the discovery. The applicant shall contact the Florida Department of State, Division of Historical Resources, Compliance and Review Section at (850)-245-6333. Project activities shall not resume without verbal and/or written authorization. In the event that unmarked human remains are encountered during permitted activities, all work shall stop immediately and the proper authorities notified in accordance with Section 872.05, Florida Statutes.

Specific Conditions – Listed Species

2. The Permittee shall report any injured, sick, or dead federally or state listed animal(s) discovered onsite to the Florida Fish and Wildlife Conservation Commission Wildlife Alert number at 888-404-FWCC (3922).
3. This permit does not authorize the permittee to cause any adverse impact to or “take” of state listed species and other regulated species of fish and wildlife. Compliance with state laws regulating the take of fish and wildlife is the responsibility of the owner or permittee associated with this project. Please refer to Chapter 68A-27 of the Florida Administrative Code for definitions of “take” and a list of fish and wildlife species. If listed species are observed onsite, Florida Fish and Wildlife Conservation Commission (FWC) staff are available to provide decision support information or assist in obtaining the appropriate FWC permits. Most marine endangered and threatened species are statutorily protected and a “take” permit cannot be issued. Requests for further information or review can be sent to ConservationPlanningServices@MyFWC.com.
4. If new information (e.g. listing of new species, new critical habitat, etc.) shows that the magnitude of impacts to federally listed species has the potential for adverse effects, the U.S. Fish and Wildlife Service (USFWS) will notify the Department. The Department will initiate coordination with the permittee and with the USFWS to determine what adverse impacts are likely and if additional minimization measures, reporting, or monitoring are required in order to be consistent with the Endangered Species Act, as deemed necessary by USFWS.

Authority for review – Part IV of Chapter 373, Florida Statutes (F.S.), and Title 62, F.A.C.

Additional Information

Please retain this general permit. The activities may be inspected by authorized state personnel in the future to ensure compliance with appropriate statutes and administrative codes. If the activities are not in compliance, you may be subject to penalties under Chapter 373, F.S., and Chapter 18-14, F.A.C.

NOTICE OF RIGHTS

This action is final and effective on the date filed with the Clerk of the Department unless a petition for an administrative hearing is timely filed under Sections 120.569 and 120.57, F.S., before the deadline for filing a petition. On the filing of a timely and sufficient petition, this action will not be final and effective until further order of the Department. Because the administrative hearing process is designed to formulate final agency action, the subsequent order may modify or take a different position than this action.

Petition for Administrative Hearing

A person whose substantial interests are affected by the Department's action may petition for an administrative proceeding (hearing) under Sections 120.569 and 120.57, F.S. Pursuant to Rules 28-106.201 and 28-106.301, F.A.C., a petition for an administrative hearing must contain the following information:

- (a) The name and address of each agency affected and each agency's file or identification number, if known;
- (b) The name, address, any e-mail address, any facsimile number, and telephone number of the petitioner, if the petitioner is not represented by an attorney or a qualified representative; the name, address, and telephone number of the petitioner's representative, if any, which shall be the address for service purposes during the course of the proceeding; and an explanation of how the petitioner's substantial interests will be affected by the agency determination;
- (c) A statement of when and how the petitioner received notice of the agency decision;
- (d) A statement of all disputed issues of material fact. If there are none, the petition must so indicate;
- (e) A concise statement of the ultimate facts alleged, including the specific facts that the petitioner contends warrant reversal or modification of the agency's proposed action;
- (f) A statement of the specific rules or statutes that the petitioner contends require reversal or modification of the agency's proposed action, including an explanation of how the alleged facts relate to the specific rules or statutes; and
- (g) A statement of the relief sought by the petitioner, stating precisely the action that the petitioner wishes the agency to take with respect to the agency's proposed action.

The petition must be filed (received by the Clerk) in the Office of General Counsel of the Department at 3900 Commonwealth Boulevard, Mail Station 35, Tallahassee, Florida 32399- 3000, or via electronic correspondence at Agency_Clerk@dep.state.fl.us. Also, a copy of the petition shall be mailed to the applicant at the address indicated above at the time of filing.

Time Period for Filing a Petition

In accordance with Rule 62-110.106(3), F.A.C., petitions for an administrative hearing by the applicant and persons entitled to written notice under Section 120.60(3), F.S., must be filed within 21 days of receipt of this written notice. Petitions filed by any persons other than the applicant, and other than those entitled to written notice under Section 120.60(3), F.S., must be filed within 21 days of publication of the notice or within 21 days of receipt of the written notice, whichever occurs first. You cannot justifiably rely on the finality of this decision unless notice of this decision and the right of substantially affected persons to challenge this decision has been duly published or otherwise provided to all persons substantially affected by the decision. While you are not required to publish notice of this action, you may elect to do so pursuant Rule 62- 110.106(10)(a).

The failure to file a petition within the appropriate time period shall constitute a waiver of that person's right to request an administrative determination (hearing) under Sections 120.569 and 120.57, F.S., or to intervene in this proceeding and participate as a party to it. Any subsequent intervention (in a proceeding initiated by another party) will be only at the discretion of the presiding officer upon the filing of a motion in compliance with Rule 28-106.205, F.A.C. If you do not publish notice of this action, this waiver will not apply to persons who have not received written notice of this action.

Extension of Time

Under Rule 62-110.106(4), F.A.C., a person whose substantial interests are affected by the Department's action may also request an extension of time to file a petition for an administrative hearing. The Department may, for good cause shown, grant the request for an extension of time. Requests for extension of time must be filed with the Office of General Counsel of the Department at 3900 Commonwealth Boulevard, Mail Station 35, Tallahassee, Florida 32399- 3000, or via electronic correspondence at Agency_Clerk@dep.state.fl.us, before the deadline for filing a petition for an administrative hearing. A timely request for extension of time shall toll the running of the time period for filing a petition until the request is acted upon.

Mediation

Mediation is not available in this proceeding.

FLAWAC Review

The applicant, or any party within the meaning of Section 373.114(1)(a) or 373.4275, F.S., may also seek appellate review of this order before the Land and Water Adjudicatory Commission under Section 373.114(1) or 373.4275, F.S. Requests for review before the Land and Water Adjudicatory Commission must be filed with the Secretary of the Commission and served on the Department within 20 days from the date when this order is filed with the Clerk of the Department.

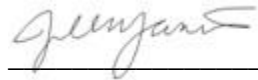
Judicial Review

Once this decision becomes final, any party to this action has the right to seek judicial review pursuant to Section 120.68, F.S., by filing a Notice of Appeal pursuant to Florida Rules of Appellate Procedure 9.110 and 9.190 with the Clerk of the Department in the Office of General Counsel (Station #35, 3900 Commonwealth Boulevard, Tallahassee, Florida 32399-3000) and by filing a copy of the Notice of Appeal accompanied by the applicable filing fees with the appropriate district court of appeal. The notice must be filed within 30 days from the date this action is filed with the Clerk of the Department.

EXECUTION AND CLERKING

Executed in Orlando, Florida.

STATE OF FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION



Jill Farris
Environmental Administrator
Permitting and Waste Cleanup

Enclosures:

General Permit for Minor Activities, Ch. 62-331.220, F.A.C.
General Conditions for All General Permits, Ch. 62-331.201, F.A.C.
General Conditions for All General Permits, Ch. 62-330.405, F.A.C.
Project drawings, 22 pages
Certification of Compliance with State 404 Program General Permit, [form 62-331.200\(1\)](#)

CERTIFICATE OF SERVICE

The undersigned duly designated deputy clerk hereby certifies that this document and all attachments were sent on the filing date below to the following listed persons:

Mark Van Heden, Co-applicant, mvanheden@sjrwmd.com
Amy Goodden, Consultant, agoodden@jonesedmunds.com
Teayann Duclos, FDEP, Teayann.Duclos@FloridaDEP.gov
Melanie Wharton, FDEP, Melanie.wharton@floridadep.gov
Brevard County, LeeAnn.McCullough-Wham@brevardfl.gov

FILING AND ACKNOWLEDGMENT

FILED, on this date, pursuant to Section 120.52, F. S., with the designated Department Clerk, receipt of which is hereby acknowledged.

Mandakini Patel July 1, 2022
Clerk Date

Rule 62-331.220, F.A.C. General Permit for Minor Activities

- (1) This general permit authorizes minor dredge or fill activities in state-assumed waters, provided the activity meets all of the following criteria:
- (a) The quantity of fill and the volume of material excavated do not exceed 25 cubic yards below the plane of the mean or ordinary high water line;
 - (b) The activity will not cause the loss of more than 1/10-acre of state-assumed waters; and
 - (c) The activity is not conducted for the purpose of a stream diversion.
- (2) This general permit does not authorize projects that capture and store water, such as Dispersed Water Management Projects (DWMP).
- (3) The permittee must submit a notice of intent to use this general permit to the Agency prior to commencing the activity if:
- (a) The fill or the volume of material excavated exceeds 10 cubic yards below the plane of the mean or ordinary high water line;
 - (b) The activity is in a special aquatic site, including wetlands;
- or
- (c) The project is in the following rivers, creeks, and their tributaries:
 1. Escambia River
 2. Yellow River
 3. Shoal River
 4. Choctawhatchee River
 5. Chipola River
 6. Apalachicola River
 7. Ochlockonee River
 8. Santa Fe River
 9. New River (Bradford and Union County line)
 10. Econfina Creek.

Editor notes: The effective date of the rule will be the effective date of assumption, which is the date identified by EPA as published in the Federal Register §373.4146, F.S.

Rulemaking Authority 373.026(7), 373.043, 373.118(1), 373.4131, 373.414(9), 373.4145, 373.4146(2), 403.805(1) FS. Law Implemented 373.118, 373.129, 373.136, 373.413, 373.4131, 373.414, 373.4145, 373.4146, 373.416, 373.422, 373.423, 373.429 FS. History—New 12-22-20.

Conditions for General Permits – Rule 62-331.201, F.A.C.

(1) General permits shall be subject to the conditions in subsections (2) and (3), below, and the general conditions for all general permits in Rule 62-330.405, F.A.C., except subsections 62-330.405(7) and (10), F.A.C. The Agency may revise the general conditions in Rule 62-330.405, F.A.C. to include references to applicable rules under this Chapter, as necessary.

(2) When a project requires submittal of a notice of intent to use a general permit, the Agency shall impose specific conditions as necessary to assure that the activities will be conducted in compliance with this Chapter, and in a manner which minimizes adverse impacts upon the physical, chemical, and biological integrity of wetlands or other surface waters, such as mitigation, monitoring, reporting, or recordkeeping requirements and protection measures for listed species or historical resources.

(3) In addition, general permits under this Chapter are subject to the following conditions:

(a) Aquatic Life Movements. No activity may substantially disrupt the necessary life cycle movements of those species of aquatic life indigenous to the waterbody, including those species that normally migrate through the area, unless the activity's primary purpose is to impound water. All permanent and temporary crossings of waterbodies shall be suitably culverted, bridged, or otherwise designed and constructed to maintain low flows to sustain the movement of those aquatic species. If a bottomless culvert cannot be used, then the crossing shall be designed and constructed to minimize adverse effects to aquatic life movements.

(b) Spawning Areas. Activities in spawning areas during spawning seasons must be avoided to the maximum extent practicable. Activities that result in the physical destruction (e.g., through excavation, fill, or downstream smothering by substantial turbidity) of an important spawning area are not authorized.

(c) Migratory Bird Breeding Areas. Activities in state-assumed waters that serve as breeding areas for migratory birds must be avoided to the maximum extent practicable.

(d) Shellfish Beds. No activity may occur in areas of concentrated shellfish populations, unless the activity is directly related to a shellfish harvesting activity authorized by general permits in Rule 62-331.211 or 62-331.244, F.A.C., or is a shellfish seeding or habitat restoration activity authorized by the general permit in Rule 62-331.225, F.A.C.

(e) Suitable Material. No activity may use unsuitable material (e.g., trash, debris, car bodies, asphalt, etc.). Material used for construction or fill must be free from toxic pollutants in toxic amounts as listed in section 307 of the CWA, which is incorporated by reference in subparagraph 62-331.053(3)(a)3., F.A.C., or state law.

(f) Water Supply Intakes. No activity may occur within 1000 feet of a public water supply intake, except where the activity is for the repair or improvement of public water supply intake structures or adjacent bank stabilization.

(g) Fills Within 100-year Floodplains. The activity shall comply with applicable FEMA-approved state or local floodplain management requirements.

(h) Single and Complete Project. The activity must be a single and complete project. The same general permit cannot be used more than once for the same single and complete project unless otherwise stated within the general permit. (See 404 Handbook, section 3.2.1).

(i) Wild and Scenic Rivers. No general permit activity may occur in a component of the National Wild and Scenic Rivers System, or in a river officially designated by Congress as a study river for possible inclusion in the System while the river is in an official study status, unless the appropriate federal agency with direct management responsibility for such river has determined in writing that the proposed activity will not adversely affect the Wild and Scenic River designation or study status.

(j) Tribal Rights. No general permit activity may cause more than minimal adverse effects on tribal rights (including treaty rights, settlement rights, or rights reserved under state or federal law), protected tribal resources (including cultural or burial resources off reservation), tribal waters, or to tribal lands.

(k) Listed species. No activity is authorized under any general permit which is likely to directly or indirectly jeopardize the continued existence of an endangered or threatened species or a species proposed for such designation, or which will directly or indirectly destroy or adversely modify the critical habitat of such species. No activity is authorized under any general permit which may affect a listed species or critical habitat, unless the Agency has consulted with, or been provided technical assistance by the Florida Fish & Wildlife Conservation Commission, the U.S. Fish & Wildlife Service, and the National Marine Fisheries Service under their respective authorities and appropriate measures to address the effects of the proposed activity have been implemented or are required as a specific condition to the general permit.

(l) Migratory Birds and Bald and Golden Eagles. The permittee is responsible for ensuring their action complies with the Migratory Bird Treaty Act, 16 U.S.C. §§ 703 – 712 (2018), incorporated by reference herein (<https://www.flrules.org/Gateway/reference.asp?No=Ref-12068>), and the Bald and Golden Eagle Protection Act, 16 U.S.C. §§ 668 – 668(d) (2018), incorporated by reference herein (<https://www.flrules.org/Gateway/reference.asp?No=Ref-12069>). The permittee is responsible for contacting the appropriate local office of the U.S. Fish and Wildlife Service to determine applicable measures to reduce impacts to migratory birds or eagles, including whether incidental take permits are necessary and available under the Migratory Bird Treaty Act or Bald and Golden Eagle Protection Act for a particular activity.

(m) Historic Properties. In cases where the Agency determines, based on information from SHPO, that the activity may have the potential to cause effects to properties listed, or eligible for listing, in the National Register of Historic Places, the activity is not authorized until a determination of “no effect” or “no adverse effect” is provided by SHPO.

(n) Manatees. In waters that are accessible to manatees, the permittee shall follow the “Standard Manatee Conditions for In-Water Work (2011)”, incorporated by reference herein (<https://www.flrules.org/Gateway/reference.asp?No=Ref-12070>).

(o) Sea turtles, smalltooth sawfish, Gulf sturgeon, or shortnose sturgeon. In waters that are accessible to these species, the permittee shall follow the “Sea Turtle and Smalltooth Sawfish Construction Conditions” (March 23, 2006), incorporated by reference herein (<https://www.flrules.org/Gateway/reference.asp?No=Ref-12071>).

(p) Use of Multiple General Permits. The use of more than one general permit under this Chapter for a single and complete project is prohibited, except when specified within a specific general permit, or when the acreage loss of state-assumed waters authorized by the general permits does not exceed the acreage limit of the general permit with the highest specified acreage limit.

(q) Transfer of General Permit Verifications. If the permittee sells the property associated with the general permit verification, the permittee shall transfer the general permit verification to the new owner by submitting a completed Form 62-331.100(1) – “Transfer of State 404 Program General Permit Verification” (effective date), incorporated by reference in subsection 62-331.100(2), F.A.C., within 30 days of the sale, to the Agency that processed the original notice.

(r) Compliance Certification. Each permittee who receives a general permit verification letter under this Chapter must submit a completed Form 62-331.200(1) – “Certification of Compliance with a State 404 Program General Permit” (effective date), incorporated by reference in subsection 62-331.200(4), F.A.C., within 30 days of completion of the authorized activity, or the implementation of any required compensatory mitigation, whichever is later.

(s) Activities Affecting Structures or Work Built by the United States. If an activity also requires permission from the Corps pursuant to 33 U.S.C. § 408 because it will alter or temporarily or permanently occupy or use a Corps federally authorized Civil Works project, the prospective permittee is responsible for obtaining such permission separately from the Corps prior to commencing activities authorized by the general permit.

(t) If during the ground disturbing activities and construction work within the permit area, there are archaeological or cultural materials encountered which were not the subject of a previous cultural resources assessment survey or to which such impacts were not anticipated, including but not limited to pottery, modified shell, flora, fauna, human remains, ceramics, stone tools or metal implements, dugout canoes, evidence of structures or any other physical remains that could be associated with Native American cultures or early colonial or American settlement; the Permittee shall immediately stop all work and ground-disturbing activities within a 100-meter diameter of the discovery and notify the Agency within the same business day. The Agency shall then notify the State Historic Preservation Officer (SHPO) and the appropriate Tribal Historic Preservation Officer(s) (THPO(s)) or tribe when the interested tribe does not have a THPO, to assess the significance of the discovery and devise appropriate actions.

(u) Additional cultural resources assessments may be required of the permit area in the case of unanticipated discoveries or effects to historic properties as referenced in accordance with condition (t), above, and if deemed necessary by the SHPO, or THPO(s), Tribes, or Agency. Based on the circumstances of the discovery, equity to all parties, and considerations of the public interest, the Agency may modify, suspend, or revoke the permit in accordance with Rule 62-331.080, F.A.C. Such activity shall not resume without written authorization from the SHPO and THPO(s), or tribe when the interested tribe does not have a THPO, concerning potential effects to cultural resources or historic properties for finds under their jurisdiction, and from the Agency.

(v) In the event that unmarked human remains are identified, they shall be treated in accordance with Section 872.05, F.S. All work and ground-disturbing activities within a 100-meter diameter of the unmarked human remains shall immediately cease and the Permittee shall immediately notify the medical examiner, Agency, and State Archaeologist within the same business day. The Agency shall then notify the appropriate SHPO and THPO(s) and appropriate tribes and other appropriate consulting parties. Based on the circumstances of the discovery, equity to all parties, and considerations of the public interest, the Agency may modify, suspend, or revoke the permit in accordance with Rule 62-331.080, F.A.C. Such activity shall not resume without written authorization from the medical examiner, State Archaeologist, and from the Agency. Additionally, if the unmarked remains were identified on federal lands, or lands where the Archaeological Resources Protection Act, 16 U.S.C. §§ 470aa – 470mm (2018), incorporated by reference herein (<https://www.flrules.org/Gateway/reference.asp?No=Ref-12072>), or the Native American Graves Protection Repatriation 25 U.S.C. §§ 3001-3013 (2018), incorporated by reference herein (<https://www.flrules.org/Gateway/reference.asp?No=Ref-12073>), applies, such activity shall not resume without written authorization from the SHPO, the appropriate THPO(s), and the federal land manager.

(w) Noncompliance. The permittee shall timely notify the Agency of any expected or known actual noncompliance.

(x) Inspection and entry. The permittee shall allow the Agency, upon presentation of proper identification, at reasonable times to:

1. Enter upon the permittee's premises where a regulated activity is located or where records must be kept under the conditions of the permit,
2. Have access to and copy any records that must be kept under the conditions of the permit,
3. Inspect operations regulated or required under the permit, and
4. Sample or monitor, for the purposes of assuring permit compliance or as otherwise authorized by the Act, any substances or parameters at any location.

(y) The permittee shall comply with all conditions of the permit, even if that requires halting or reducing the permitted activity to maintain compliance. Any permit violation constitutes a violation of Part IV of Chapter 373, F.S., and this Chapter, as well as a violation of the CWA.

(z) The permittee shall take all reasonable steps to prevent any unauthorized dredging or filling in violation of this permit.

(aa) Upon Agency request, the permittee shall provide information necessary to determine compliance status, or whether cause exists for permit modification, revocation, or termination.

Rulemaking Authority 373.026(7), 373.043, 373.118(1), 373.4131, 373.414(9), 373.4145, 373.4146(2), 403.805(1) FS. Law Implemented 373.118, 373.129, 373.136, 373.413, 373.4131, 373.414, 373.4145, 373.4146, 373.416, 373.422, 373.423, 373.429 FS. History – New 12.22.2020.

62-330.405 General Conditions for All General Permits.

The following general permit conditions are binding upon the permittee and are enforceable under chapter 373, F.S. These conditions do not apply to the general permit for stormwater management systems under section 403.814(12), F.S

(1) The general permit is valid only for the specific activity indicated. Any deviation from the specified activity and the conditions for undertaking that activity shall constitute a violation of the permit and may subject the permittee to enforcement action and revocation of the permit under chapter 373, F.S

(2) The general permit does not eliminate the necessity to obtain any required federal, state, local and special district authorizations prior to the start of any construction, alteration, operation, maintenance, removal or abandonment authorized by this permit; and it does not authorize any violation of any other applicable federal, state, local, or special district laws (including, but not limited to, those governing the “take” of listed species).

(3) The general permit does not convey to the permittee or create in the permittee any property right, or any interest in real property, nor does it authorize any entrance upon or activities on property which is not owned or controlled by the permittee, or convey any rights or privileges other than those specified in the general permit.

(4) The general permit does not relieve the permittee from liability and penalties when the permitted activity causes harm or injury to: human health or welfare; animal, plant or aquatic life; or property. It does not allow the permittee to cause pollution that violates state water quality standards.

(5) Section 253.77, F.S., provides that a person may not commence any excavation, construction, or other activity involving the use of state-owned or other lands of the state, the title to which is vested in the Board of Trustees of the Internal Improvement Trust Fund without obtaining the required consent, lease, easement, or other form of authorization authorizing the proposed use. Therefore, the permittee is responsible for obtaining any necessary authorizations from the Board of Trustees prior to commencing activity on state-owned lands.

(6) The authorization to conduct activities under a general permit may be modified, suspended or revoked in accordance with chapter 120, F.S., and section 373.429, F.S.

(7) Not applicable.

(8) Upon reasonable notice to the permittee, Agency staff with proper identification shall have permission to enter, inspect, sample and test the permitted system to ensure conformity with the

plans and specifications approved by the general permit.

(9) The permittee shall maintain any permitted project or activity in accordance with the plans submitted to the Agency and authorized in the general permit.

(10) Not applicable.

(11) Activities shall be conducted in a manner that does not cause or contribute to violations of state water quality standards. Performance-based erosion and sediment control best management practices shall be implemented and maintained immediately prior to, during, and after construction as needed to stabilize all disturbed areas, including other measures specified in the permit to prevent adverse impacts to the water resources and adjacent lands. Erosion and sediment control measures shall be installed and maintained in accordance with the *State of Florida Erosion and Sediment Control Designer and Reviewer Manual (Florida Department of Environmental Protection and Florida Department of Transportation, June 2007)*, available at <https://www.flrules.org/Gateway/reference.asp?No=Ref-04227>, and the *Florida Stormwater Erosion and Sedimentation Control Inspector's Manual (Florida Department of Environmental Protection, Nonpoint Source Management Section, Tallahassee, Florida, July 2008)*, available at http://publicfiles.dep.state.fl.us/DEAR/Stormwater_Training_Docs/erosion-inspectors-manual.pdf.

(12) Unless otherwise specified in the general permit, temporary vehicular access within wetlands during construction shall be performed using vehicles generating minimum ground pressure to minimize rutting and other environmental impacts. Within forested wetlands, the permittee shall choose alignments that minimize the destruction of mature wetland trees to the greatest extent practicable. When needed to prevent rutting or soil compaction, access vehicles shall be operated on wooden, composite, metal, or other non-earthen construction mats. In all cases, access in wetlands shall comply with the following:

(a) Access within forested wetlands shall not include the cutting or clearing of any native wetland tree having a diameter four inches or greater at breast height;

(b) The maximum width of the construction access area shall be limited to 15 feet;

(c) All mats shall be removed as soon as practicable after equipment has completed passage through, or work has been completed, at any location along the alignment of the project, but in no case longer than seven days after equipment has completed work or passage through that location; and

(d) Areas disturbed for access shall be restored to natural grades immediately after the maintenance or repair is completed.

(13) Barges or other work vessels used to conduct in-water activities shall be operated in a manner that prevents unauthorized dredging, water quality violations, and damage to submerged aquatic communities.

(14) The construction, alteration, or use of the authorized project shall not adversely impede navigation or create a navigational hazard in the water body.

(15) Except where specifically authorized in the general permit, activities must not:

(a) Impound or obstruct existing water flow, cause adverse impacts to existing surface water storage and conveyance capabilities, or otherwise cause adverse water quantity or flooding impacts to receiving water and adjacent lands; or

(b) Cause an adverse impact to the maintenance of surface or ground water levels or surface water flows established pursuant to section 373.042, F.S., or a Works of the District established pursuant to section 373.086, F.S.

(16) If prehistoric or historic artifacts, such as pottery or ceramics, projectile points, stone tools, dugout canoes, metal implements, historic building materials, or any other physical remains that could be associated with Native American, early European, or American settlement are encountered at any time within the project site area, the permitted project shall cease all activities involving subsurface disturbance in the vicinity of the discovery. The permittee or other designee shall contact the Florida Department of State, Division of Historical Resources, Compliance Review Section (DHR), at (850)245-6333, as well as the appropriate permitting agency office. Project activities shall not resume without verbal or written authorization from the Division of Historical Resources. If unmarked human remains are encountered, all work shall stop immediately and the proper authorities notified in accordance with section 872.05, F.S.

(17) The activity must be capable, based on generally accepted engineering and scientific principles, of being performed and of functioning as proposed, and must comply with any applicable District special basin and geographic area criteria.

(18) The permittee shall comply with the following when performing work within waters accessible to federally- or state-listed aquatic species, such as manatees, marine turtles, smalltooth sawfish, and Gulf sturgeon:

(a) All vessels associated with the project shall operate at "Idle Speed/No Wake" at all times while in the work area and where the draft of the vessels provides less than a four-foot clearance from the bottom. All vessels will follow routes of deep water whenever possible.

(b) All deployed siltation or turbidity barriers shall be properly secured, monitored, and maintained to prevent entanglement or entrapment of listed species.

(c) All in-water activities, including vessel operation, must be shut down if a listed species comes within 50 feet of the work area. Activities shall not resume until the animal(s) has moved beyond a 50-foot radius of the in-water work, or until 30 minutes elapses since the last sighting within 50 feet. Animals must not be herded away or harassed into leaving. All onsite project personnel are responsible for observing water-related activities for the presence of listed species.

(d) Any listed species that is killed or injured by work associated with activities performed shall

be reported immediately to the Florida Fish and Wildlife Conservation Commission (FWC) Hotline at 1(888)404-3922 and ImperiledSpecies@myFWC.com.

(e) Whenever there is a spill or frac-out of drilling fluid into waters accessible to the above species during a directional drilling operation, the FWC shall be notified at ImperiledSpecies@myfwc.com with details of the event within 24 hours following detection of the spill or frac-out.

(19) The permittee shall hold and save the Agency harmless from any and all damages, claims, or liabilities which may arise by reason of the construction, alteration, operation, maintenance, removal, abandonment or use of any activity authorized by the general permit.

(20) The permittee shall immediately notify the Agency in writing of any submitted information that is discovered to be inaccurate.

Rulemaking Authority 373.026(7), 373.043, 373.118(1), 373.406(5), 373.4131, 373.414(9), 373.4145, 373.418, 403.805(1) FS. Law Implemented 373.044, 373.118(1), 373.129, 373.136, 373.406(5), 373.413, 373.4131, 373.414(9), 373.4145, 373.416, 373.422, 373.423, 373.429, 403.814(1) FS. History—New 10-3-95, Amended 10-1-07, Formerly 62-341.215, Amended 10-1-13, 6-1-18.

CRANE CREEK

M-1 CANAL FLOW RESTORATION

VOLUME 2

PREPARED FOR:

**ST. JOHNS RIVER WATER
MANAGEMENT DISTRICT**

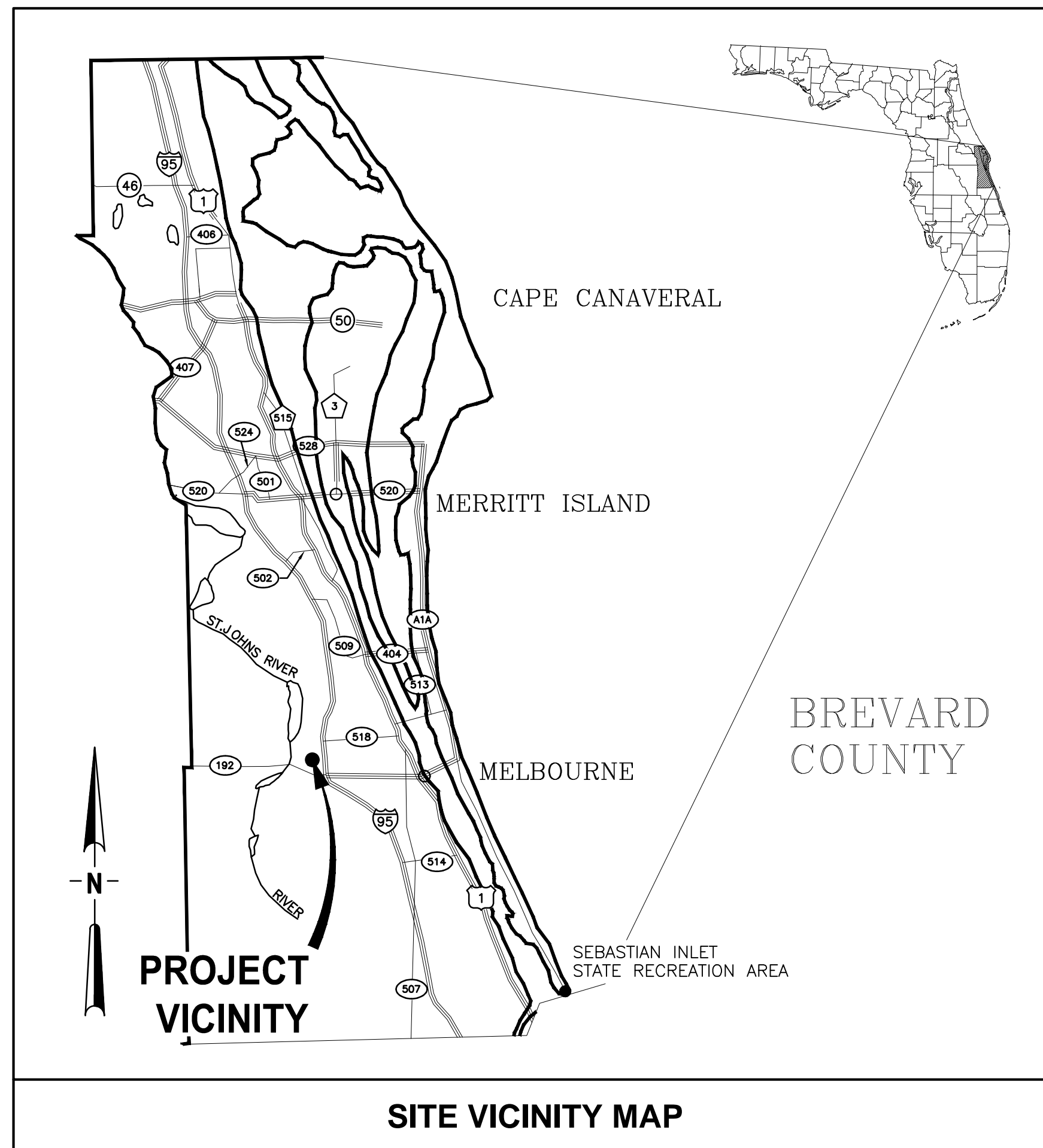


PREPARED BY:

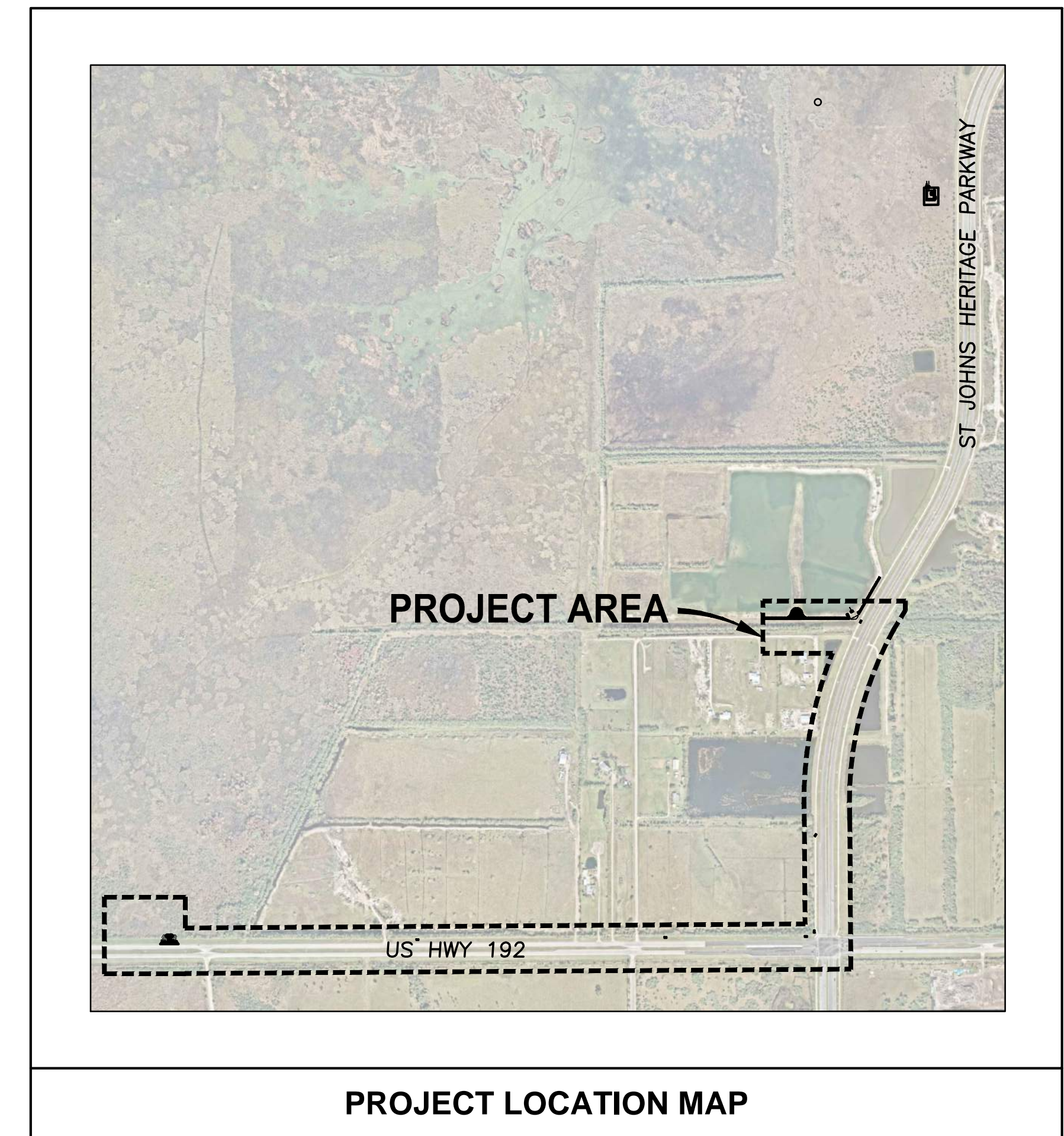
JonesEdmunds

CERTIFICATE OF AUTHORIZATION #1841
730 NE WALDO ROAD, GAINESVILLE, FLORIDA 32641 / (352) 377-5821

Always call 811 two full business days before you dig to
have underground utilities located and marked.



SITE VICINITY MAP



PROJECT LOCATION MAP

CONTRACT NO: 32116

PROJECT NO: 19750-066-01

BREVARD COUNTY RIGHT-OF-WAY REVIEW AND APPROVAL DOES NOT CONSTITUTE COUNTY APPROVAL OR REVIEW OF ANY PRIVATE PARTY DEED RESTRICTIONS, COVENANTS, PRIVATE EASEMENTS, OR OTHER PRIVATE AGREEMENTS. ANY CHANGES TO THE APPROVED MUST BE COORDINATED THROUGH THE PUBLIC WORKS ENGINEERING PROGRAM. THE APPLICANT ASSUMES THE RISK THAT THE RIGHT-OF-WAY PERMIT MAY REQUIRE ADDITIONAL COUNTY REVIEW INCLUDING ENGINEERING REVISIONS OR OTHER APPLICABLE COUNTY REVIEW PROCESSES SHOULD ANY ACTION TO ENFORCE ANY SUCH RESTRICTIONS REQUIRE REDESIGN OF THE PROJECT.

JANUARY 2022

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G2	DRAWING INDEX & ABBREVIATIONS
G3	GENERAL NOTES
G4	LEGENDS AND SECTION DESIGNATIONS
G5	MECHANICAL LEGEND & PIPE SCHEDULE
G6	KEY MAP
G9	BREVARD COUNTY PUBLIC WORKS ENGINEERINGS STD DEVELOPMENT NOTES
G10	BREVARD COUNTY LAND DEVELOPMENT EXHIBITS
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SEE NOTE 1

NOTE

1. THE DRAWINGS ASSOCIATED WITH WORK IN THE STORMWATER TREATMENT AREA ARE NOT INCLUDED IN THIS SUBMITTAL. THE STORMWATER TREATMENT AREA WAS PERMITTED BY FDEP UNDER ERP 384808-001-EL. THE DISTRICT WILL SUBMIT AN APPLICATION TO MODIFY THAT ERP FOR THE WORK ON THE STORMWATER TREATMENT AREA, WHICH INCLUDES THE ASSOCIATED EROSION CONTROL AND MECHANICAL DRAWINGS.

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DESIGNED	A GOODDEN			
DRAWN	J ALLEN			
CHECKED	R KOLLER			
LTR.	DATE	REVISIONS	BY	APPRD.

JonesEdmunds
 CERTIFICATE OF AUTHORIZATION #1841
 730 NE WALDO ROAD, GAINESVILLE, FLORIDA 32641 / (352) 377-5821
 8657 BAYPINE ROAD SUITE 300, JACKSONVILLE, FL 32256 / (904) 744-5401

**CRANE CREEK
 M-1 CANAL FLOW RESTORATION
 VOLUME 2**

DRAWING INDEX & ABBREVIATIONS

AMY LIANE GOODDEN, PROFESSIONAL ENGINEER, STATE OF FLORIDA, LICENSE NUMBER 60097	PROJECT NO: 19750-066-01	DATE: JAN 2022
THIS ITEM HAS BEEN DIGITALLY SIGNED AND SEALED BY AMY LIANE GOODDEN ON THE DATE AT THE RIGHT.	INDEX NO:	DWG NO: G2
PRINTED COPIES OF THIS DOCUMENT ARE NOT CONSIDERED SIGNED AND SEALED AND THE SIGNATURE MUST BE VERIFIED ON ANY ELECTRONIC COPIES.		

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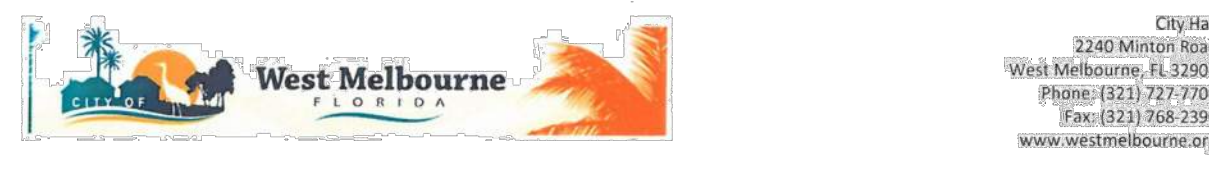
GENERAL NOTES

ABBREVIATIONS

- TOPOGRAPHIC SURVEY INFORMATION FOR ALL AREAS EXCEPT THE STA SITE WAS PROVIDED BY SOUTHEASTERN SURVEYING AND MAPPING CORPORATION, A REGISTERED PROFESSIONAL LAND SURVEYOR, DATED NOVEMBER 21 2018. THE SURVEYOR'S DRAWINGS ARE INCLUDED IN THIS DRAWING SET. STA SITE TOPOGRAPHIC SURVEY INFORMATION IS LIDAR DATA PROVIDED BY BREVARD COUNTY.
- THE HORIZONTAL DATUM IS BASED ON FLORIDA STATE PLANE EAST, NORTH AMERICAN DATUM 1983 (NAD83), 2011 ADJUSTMENT. VERTICAL INFORMATION SHOWN REFERS TO NATIONAL GEODETIC SURVEY (NGS) POINT PID#DCG8680 HAVING A RECORDED ELEVATION OF 22.98 FEET (NAVD 88).
- INFORMATION SHOWN HEREIN REPRESENTS CONDITIONS AS THEY EXISTED ON THE SURVEY DATE SHOWN AND CAN ONLY BE CONSIDERED INDICATIVE OF CONDITIONS AT THAT TIME.
- ALL DISTURBED AREAS SHALL BE RESTORED TO ORIGINAL OR BETTER CONDITION INCLUDING BUT NOT LIMITED TO SOD, LANDSCAPING, ETC. NEW SOD SHALL MATCH ADJACENT SOD OR IF NONE IS PRESENT IT SHALL BE A BAHIA/ BERMUDA MIX.
- EXISTING DRAINAGE STRUCTURES WITHIN CONSTRUCTION LIMITS SHALL REMAIN, UNLESS OTHERWISE NOTED.
- EXISTING PAVEMENTS DAMAGED DUE TO CONSTRUCTION ARE TO BE REPLACED IN-KIND AT THE SAME LOCATION, WIDTH, AND GEOMETRY UNLESS OTHERWISE SHOWN IN THE PLANS. CONTRACTOR SHALL RECONSTRUCT ROADWAY AND DRIVEWAY PAVEMENT TO EXISTING GRADES UNLESS OTHERWISE SPECIFIED.
- CONTRACTOR WILL REMOVE BURIED OUT OF SERVICE UTILITY LINES WITHIN THE LIMITS OF ALL EXCAVATION. THE COST OF THIS WORK WILL BE INCIDENTAL TO AND INCLUDED IN THE COST OF THE WORK BEING PERFORMED WHEN THE LINES ARE ENCOUNTERED.
- ALL EXISTING UTILITIES ARE TO REMAIN IN PLACE UNLESS OTHERWISE NOTED. CONTRACTOR TO PROTECT ALL EXISTING UTILITIES DURING CONSTRUCTION. CONTRACTOR SHALL VERIFY THE LOCATION OF ALL UTILITIES PRIOR TO CONSTRUCTION.
- THE LOCATION(S) OF THE UTILITIES SHOWN IN THE PLANS ARE BASED ON LIMITED INVESTIGATION TECHNIQUES AND SHOULD BE CONSIDERED APPROXIMATE ONLY. THE VERIFIED LOCATIONS/ELEVATIONS APPLY ONLY AT THE POINTS SHOWN. INTERPOLATIONS BETWEEN THESE POINTS HAVE NOT BEEN VERIFIED.
- THE CONTRACTOR SHALL NOTIFY UTILITY OWNERS THROUGH SUNSHINE ONE CALL OF FLORIDA, INC. (1-800-432-4770) TWO BUSINESS DAYS IN ADVANCE OF BEGINNING CONSTRUCTION ON THE JOB SITE.
- THE CONTRACTOR SHALL NOTIFY AND COORDINATE WITH FDOT TO LOCATE UTILITIES AND FDOT FACILITIES WITHIN THE LIMITS OF CONSTRUCTION ON US 192/SR 500 AND ST. JOHNS HERITAGE PARKWAY.
- CONTRACTOR SHALL NOTIFY SJRWMD IMMEDIATELY UPON DISCOVERY OF ANY ERRORS OR OMISSIONS IN CONSTRUCTION PLANS THAT WOULD AFFECT THE CONSTRUCTION OF THE PROJECT.
- DISPOSAL OF ALL EXCESS EARTHWORK MATERIALS IS THE RESPONSIBILITY OF THE CONTRACTOR. DISPOSAL SITES SHALL BE AS DIRECTED BY SJRWMD, AS THE OWNER.
- CONTRACTOR SHALL COMPLY WITH ALL PROVISIONS OF THE FLORIDA STATE TRENCH SAFETY ACT.
- CONTRACTOR SHALL OBTAIN A TEMPORARY DEWATERING PERMIT PRIOR TO ANY DEWATERING ACTIVITIES. CONTRACTOR SHALL SUBMIT DEWATERING PLAN TO SJRWMD FOR APPROVAL. DURING DEWATERING OPERATIONS, CONTRACTOR SHALL NOT DISCHARGE DIRECTLY TO EXISTING WETLAND SYSTEMS, CANALS OR DITCHES.
- CONTRACTOR TO ESTABLISH ALL LINES, GRADES, AND REFERENCE POINTS AS REQUIRED FOR WORK UNDER THIS CONTRACT. ALL PROJECT LAYOUTS SHALL BE DONE USING A PROFESSIONAL SURVEYOR & MAPPER LICENSED IN THE STATE OF FLORIDA.
- CONTRACTOR TO PROVIDE ALL LABOR, INSTRUMENTS, STAKES AND OTHER MATERIALS NECESSARY FOR MARKING AND MAINTAINING ALL LINES AND GRADE.
- ALL EXISTING TREES OUTSIDE THE GRADING LIMITS ARE TO REMAIN.
- CONTRACTOR SHALL KEEP ALL SPOILS AND EQUIPMENT OUTSIDE OF THE TREE DRIPLINE FOR ALL TREES NOT DIRECTLY AFFECTED BY

- CONSTRUCTION.
- BURNING OF MATERIAL AND/OR DEBRIS IS PROHIBITED WITHIN THE PROJECT LIMITS. THE CONTRACTOR SHALL LEGALLY DISPOSE OF ALL CLEARED/GRUBBED MATERIAL OFFSITE.
- UNLESS OTHERWISE SPECIFIED ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH FDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION (2020), AND FDOT STANDARD PLANS (2020-21).
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING A STAGING AREA FOR MATERIAL AND EQUIPMENT STORAGE. THIS MAY INCLUDE LOCATING A SITE, OBTAINING PERMITS, AND MAKING THE SITE SUITABLE FOR USE. THE CONTRACTOR SHALL NOT USE RIGHT-OF-WAY FOR STAGING MATERIAL AND EQUIPMENT.
- THE CONTRACTOR SHALL PROVIDE MATERIAL AND CONSTRUCTION TESTING BY A FLORIDA QUALIFIED GEOTECHNICAL TESTING FIRM. ACCEPTANCE TESTING INCLUDES BUT IS NOT LIMITED TO CONCRETE, ROADWAY STABILIZATION AND BASE, ASPHALT DENSITY, AND LIMEROCK. RESULTS SHALL BE SUBMITTED TO THE DISTRICT. EAST PUMP STATION SITE AVAILABLE FOR STAGING.
- AS-BUILT PLANS TO BE PROVIDED BY THE CONTRACTOR TO SJRWMD AND CERTIFIED BY A FLORIDA REGISTERED LAND SURVEYOR.
- ANY EXISTING FENCING THAT IS DAMAGED OR TEMPORARILY REMOVED DURING CONSTRUCTION MUST BE REPLACED IN-KIND. CONTRACTOR TO COORDINATE WITH PROPERTY OWNER REGARDING ANY FENCE REMOVAL OR REPLACEMENT.
- FENCE ADJACENT TO US 192/SR 500 AND FENCE ADJACENT TO ST. JOHNS HERITAGE PARKWAY MUST BE IN PLACE AT ALL TIMES.
- CONTRACTOR TO COORDINATE REMOVAL OF SALVAGE EQUIPMENT. PROVIDE SJRWMD MINIMUM OF 30 DAYS NOTICE TO REMOVE/RELOCATE EQUIPMENT.
- THE CONTRACTOR WILL STABILIZE ALL EARTHWORK TO PREVENT EROSION.
- ALL FLAT BERM TOPS WILL BE STABILIZED WITH SEED.
- ALL SLOPES 4H:1V OR STEEPER SHALL BE STABILIZED WITH STAKED SOD.
- CONTRACTOR SHALL MAINTAIN EXISTING DRAINAGE DURING ALL PHASES OF CONSTRUCTION. THE EXISTING DRAINAGE SHALL NOT BE BLOCKED OF ADVERSELY AFFECTED BY CONSTRUCTION.

- @
- &
- AASHTO
- ADF
- ADJ
- ALUM
- ALT
- AISI
- AMPS
- ANSI
- AR
- ASTM
- AV
- AWWA
- BLD
- BLDG
- BLD
- BLDG
- BF
- BFOC
- BFP
- BFV
- BMP
- BO
- BTM
- BTM/
- BV
- BW
- BYP
- CD
- CEN
- CL
- CL
- CC
- CI
- CO
- CIP
- CISP
- CJ
- CLR
- CMF
- CMP
- CONSTR
- CONT
- CONC
- CON
- CORP
- CS
- CV
- DIA
- DBI
- DI
- DIV
- DWG
- EA
- ECC
- EF
- EG
- EL
- ELB
- EOP
- EOR
- E/R
- ERCP
- EW
- FAB
- FAC
- FCA
- FCV
- FDOT
- F/F
- FG
- FIN
- FJ
- FL
- FLEX
- FLG
- FM
- FND
- FNPT
- FRP
- FS
- GALV
- GPM
- GR
- GRU
- GS
- GV
- AT
- AND
- AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS
- AVERAGE DAILY FLOW
- ADJUSTABLE
- ALUMINUM
- ALTERNATIVE
- AMERICAN IRON STEEL INSTITUTE
- AMPERES
- AMERICAN NATIONAL STANDARDS INSTITUTE
- AIR RELEASE
- AMERICAN SOCIETY FOR TESTING AND MATERIALS
- AIR VACUUM
- AMERICAN WATER WORKS ASSOCIATION
- BLIND
- BUILDING
- BLIND FLANGE
- BURIED FIBER OPTIC CABLE
- BACKFLOW PREVENTOR
- BUTTERFLY VALVE
- BEST MANAGEMENT PRACTICES
- BLOW-OFF
- BOTTOM
- BOTTOM OF
- BALL VALVE
- BLENDED WATER
- BY-PASS
- CENTER OF DITCH/POND CENTER OF DITCH
- CENTER
- CENTERLINE
- CENTER TO CENTER
- CAST IRON
- CLEAN OUT
- CAST IRON PIPE
- CAST IRON SLIP PIECE
- CONSTRUCTION JOINT
- CLEAR
- CONCRETE MONUMENT, FOUND
- CORRUGATED METAL PIPE
- CONSTRUCTION
- CONTINUOUS
- CONCRETE
- CONCENTRIC
- CORPORATION
- CARBON STEEL
- CHECK VALVE
- DIAMETER
- DITCH BOTTOM INLET
- DUCTILE IRON
- DIVISION
- DRAWING
- EACH
- ECCENTRIC
- EACH FACE
- SUCH AS
- ELEVATION
- ELBOW
- EDGE OF PAVEMENT
- ENGINEER OF RECORD
- EDGE OF ROAD
- ELLIPTICAL REINFORCED CONCRETE PIPE
- EACH WAY
- FABRICATED
- FLORIDA ADMINISTRATIVE CODE
- FLANGED COUPLING ADAPTER
- FLOW CONTROL VALVE
- FLORIDA DEPARTMENT OF TRANSPORTATION
- FINISHED FLOOR
- FIBERGLASS
- FINISHED
- FLANGE JOINT
- FLOOR
- FLEXIBLE
- FLANGE(D)
- FORCE MAIN
- FOUNDATION
- FEMALE NATIONAL PIPE THREAD
- FIBER REINFORCED PLASTIC
- FLORIDA STATUTES
- GALVANIZED
- GALLONS PER MINUTE
- GRADE
- GAINESVILLE REGIONAL UTILITIES
- GALVANIZED STEEL
- GATE VALVE
- HDD
- HOPE
- HORIZ
- HP
- HR
- HWL
- ID
- IE
- IF
- IPS
- JT
- LB
- LBR
- LF
- LIDAR
- LOC
- LR
- LWL
- M/F
- MAX
- MES
- MFR
- MH
- MIN
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- MNPT
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- NRS
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- NSF
- NW
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- OD
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- OS&Y
- OSHA
- PE
- PI
- PL
- P/L
- PP
- PRV
- PSF
- PSI
- PV
- PVC
- PVMT
- R
- RCP
- RED
- REIN
- REQ, REQ'D
- RF
- RJ
- RPM
- RPOJ
- RST
- RTU
- RW
- ROW
- S
- SAN
- SCH
- SE
- SEC
- SIM
- SJRWMD
- SP
- SPI
- SQ
- SR
- SRV
- SS, SST
- STS
- STA
- HORIZONTAL DIRECTIONAL DRILL
- HIGH DENSITY POLYETHYLENE
- HORIZONTAL
- HORSEPOWER
- HOUR
- HIGH WATER LEVEL
- INSIDE DIAMETER
- INVERT ELEVATION
- INSULATED FLANGE
- IRON PIPE SIZE
- JOINT
- POUNDS
- LIMEROCK BEARING RATIO
- LINEAR FEET
- LIGHT DETECTION AND RANGING
- LIMITS OF CONSTRUCTION
- LONG RADIUS
- LOW WATER LEVEL
- MALE/FEMALE
- MAXIMUM
- MITERED END SECTION
- MANUFACTURER
- MANHOLE
- MINIMUM
- MECHANICAL JOINT
- MALE NATIONAL PIPE THREAD
- NORTH
- NORTH AMERICAN DATUM
- NORTH AMERICAN VERTICAL DATUM
- NORMALLY CLOSED
- NATIONAL ELECTRIC CODE
- NORMAL HIGH WATER
- NOT IN CONTRACT
- NORMAL LOW WATER
- NUMBER
- NOMINAL
- NATIONAL PIPE THREAD
- NONRISING STEM
- NOT TO SCALE
- NATIONAL SANITATION FOUNDATION
- NORTHWEST
- ON CENTER
- OUTSIDE DIAMETER
- OVERHEAD ELECTRIC
- OUTSIDE STEM & YOKE
- OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION
- PLAIN END
- PRESSURE INDICATOR/GAUGE
- PLATE
- PROPERTY LINE
- POWER POLE
- PRESSURE REDUCING VALVE
- POUNDS PER SQUARE FOOT
- POUNDS PER SQUARE INCH
- PLUG VALVE
- POLYVINYL CHLORIDE
- PAVEMENT
- RADIUS
- REINFORCED CONCRETE PIPE
- REDUCER
- REINFORCED
- REQUIRED
- REDUCING FLANGE
- RESTRAINED JOINT
- REVOLUTIONS PER MINUTE
- RESTRAINED PUSH ON JOINT
- REGIONAL STORMWATER TREATMENT
- REMOTE TELEMETRY UNIT
- RAW WATER
- RIGHT-OF-WAY
- SOUTH
- SANITARY
- SCHEDULE
- SOUTHEAST
- SHOULDERED-END COUPLING
- SIMILAR
- ST. JOHNS RIVER WATER MANAGEMENT DISTRICT
- STANDARD PLANS (FDOT)
- STANDARD PLANS INDEX (FDOT)
- SQUARE
- SURGE RELIEF
- SURGE RELIEF VALVE
- STAINLESS STEEL
- STORMWATER GRAVITY PIPE
- STORMWATER TREATMENT AREA
- STD
- STRUCTURE
- STEEL
- STORMWATER SYSTEM
- SQUARE YARD
- TEMPORARY BENCHMARK
- TOTAL HEAD
- THREADED
- THICK
- TOP OF BERM
- TOP OF CONCRETE
- TOE OF SLOPE
- THICKENED SLAB
- TYPICAL
- UTILITY EASEMENT
- ULTRASONIC LEVEL CONTROLLER
- VERTICAL
- WEST
- W/
- WM
- WSE
- WT
- WWF
- YR



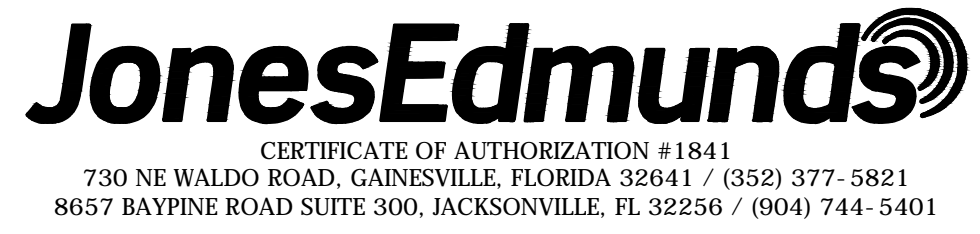
Development Closeout Checklist

- Complete all required construction inspections.
- Submit test results for compaction for pipe backfill, structure backfill (manholes and drainage structures) and for the road structural section (AC pavement and concrete).
- Submit materials tickets for concrete and AC pavement delivered to the project for public improvements.
- Provide As-builts for water, sewer, drainage, roads and site finish grades (note: city requirements exceed FDEP requirements). Please note that there are specific things the City requires for As-builts that are different than that required by other agencies. See the City's As-built drawing checklist.
- FDEP clearances for water and sewer improvements
- Schedule a final construction walk through (submit as-builts prior to scheduling walk through)
- Prepare bill(s) of sale for public improvements constructed by the developer that are being transferred to the city (include only the cost of portion transferred). Provide separate accounting for road improvements, drainage improvements, water improvements and wastewater improvements. Bill of sale shall be signed and sealed by the engineer of record.
- Using the cost(s) from above provide a 2 year maintenance bond for 20% of the value, for improvements transferred to the city
- Transfer easements for public improvements (min. 20' wide centered on improvements) to the city
- Coordinated submittal of performance bonds, maintenance bonds, and bills of sale with the City Clerk, City Planning Department and City Attorney's office.

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40% DESIGN-ERP SUBMITTAL

DESIGNED	A GOODDEN			
DRAWN	J ALLEN			
CHECKED	R KOLLER			
LTR.	DATE	REVISIONS	BY	APPRD.



CRANE CREEK M-1 CANAL FLOW RESTORATION VOLUME 2

GENERAL NOTES

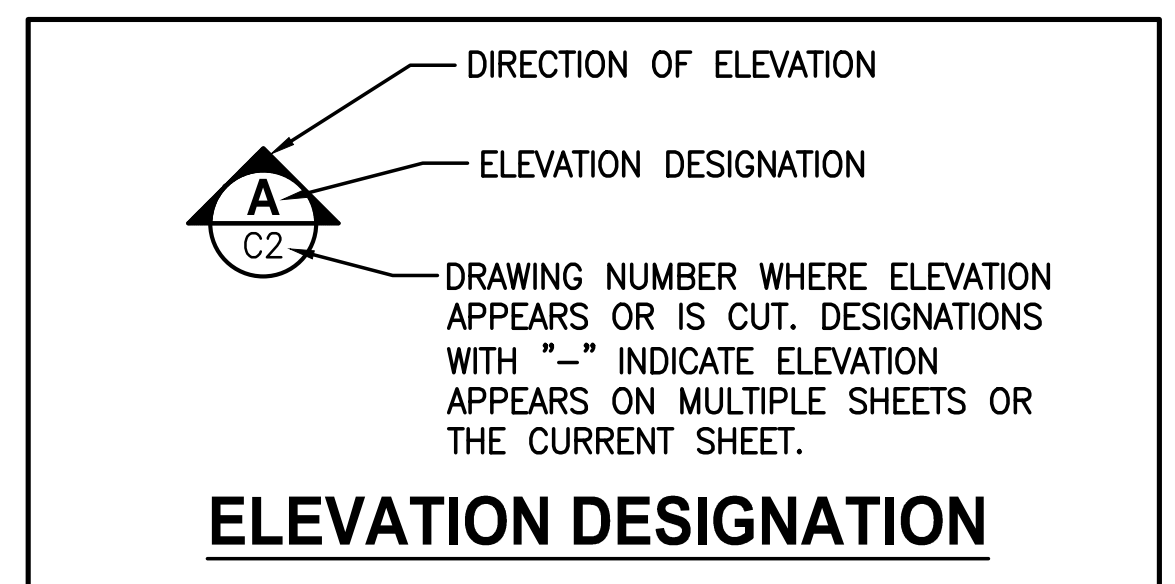
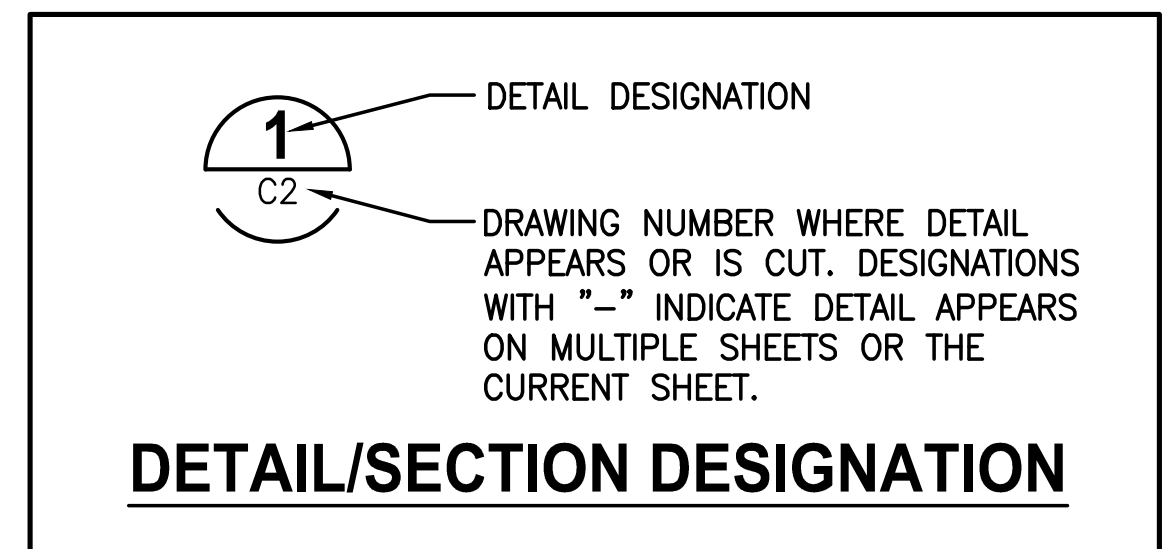
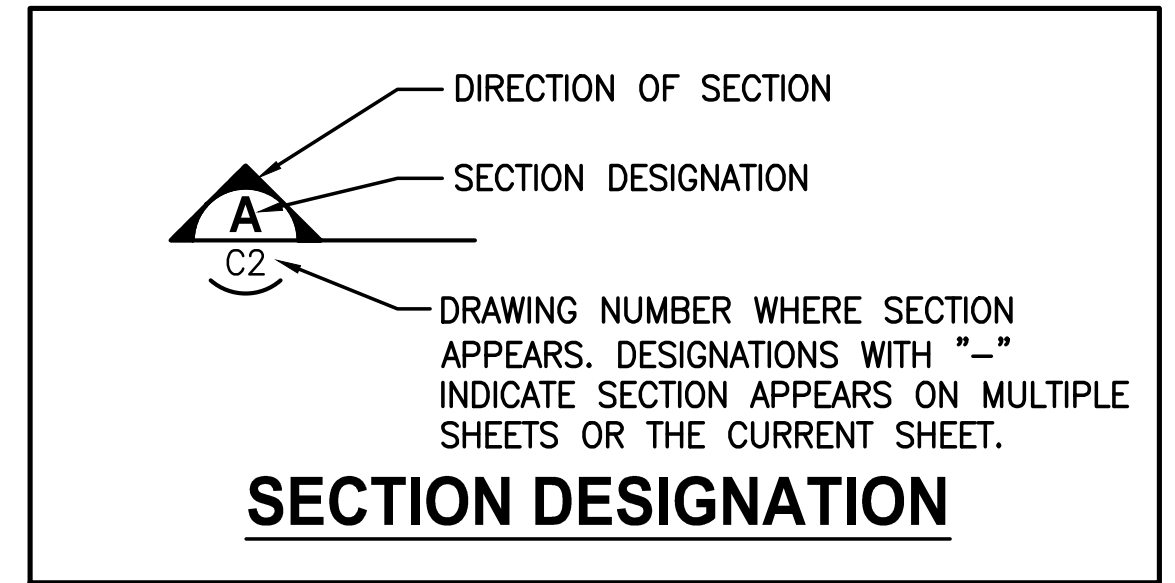
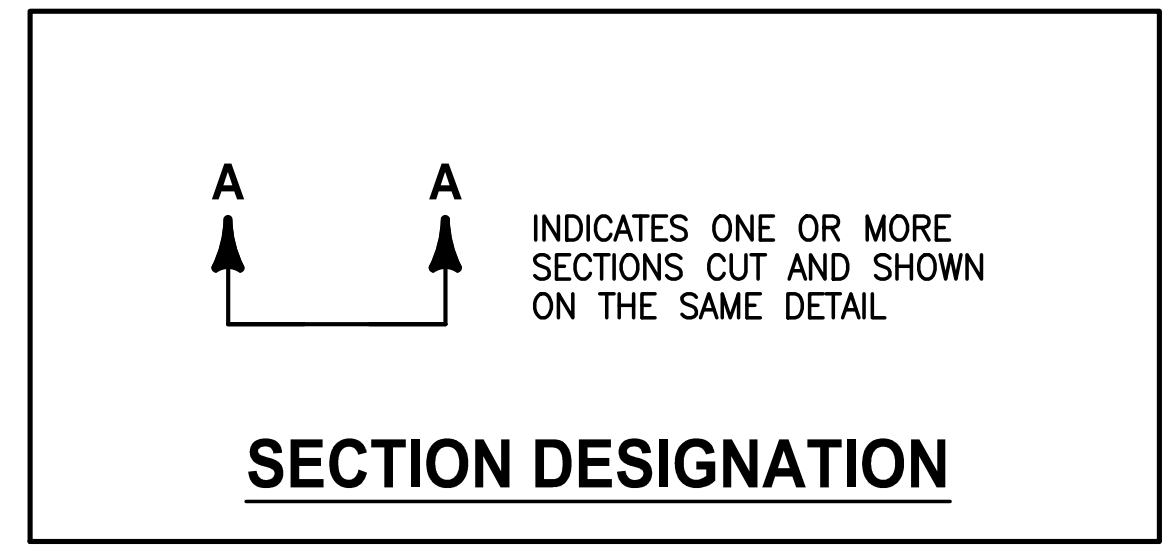
ANY LIANE GOODDEN, PROFESSIONAL ENGINEER, STATE OF FLORIDA, LICENSE NUMBER 60097 THIS ITEM HAS BEEN DIGITALLY SIGNED AND SEALED BY ANY LIANE GOODDEN ON THE DATE AT THE RIGHT. PRINTED COPIES OF THIS DOCUMENT ARE NOT CONSIDERED SIGNED AND SEALED AND THE SIGNATURE MUST BE VERIFIED ON ANY ELECTRONIC COPIES.	PROJECT NO: 19750-066-01	DATE: JAN 2022
	INDEX NO:	DWG NO: G3

CIVIL LEGEND

	MATCHLINE
	UTILITY EASEMENT
	RIGHT-OF-WAY BOUNDARY
	CENTERLINE
	LIMITS OF CONSTRUCTION
	SILT FENCE
	TURBIDITY CURTAIN
	LIMITS OF PLANTING
	GRADE BREAK
	WETLAND LINE
	PROPOSED CONTOUR
	EXISTING CONTOUR
	FENCE
	STORMWATER FORCE MAIN (HORIZONTAL DIRECTIONAL DRILL)
	STORMWATER FORCE MAIN (OPEN CUT)
	GRAVITY STORM PIPING
	REINFORCED CONCRETE PIPE (RCP)
	DITCH BOTTOM INLET
	MITERED END SECTION
	STRUCTURE/PIPE DESIGNATION
	STABILIZED DRIVE SURFACE
	ASPHALT SURFACE
	LIMITS OF MILLING AND RESURFACING
	LIMEROCK
	CROSS HATCHING INDICATES REMOVAL/DEMOLITION
	CONCRETE
	RIPRAP
	HEDGE, BUSH, SHRUBS, WOODS
	SPOT ELEVATION
	PROPOSED SIGN
	DRAWING DESIGNATION
	COORDINATE POINT
	DRAINAGE FLOW DIRECTION
	WATER LEVEL
	EXISTING CONCRETE MONUMENT, FOUND
	SLOPE INDICATOR
	ELEVATION TAG

SURVEY LEGEND

-X-	= CHAINLINK FENCE		= AIR RELEASE VALVE
-O-	= WOOD FENCE		= BUSH
-**-	= WIRE FENCE		= BURIED TELEPHONE PEDESTAL
-***-	= BARBED WIRE FENCE		= CONCRETE MONUMENT
-BEL-	= BURIED ELECTRIC LINE		= CLEAN OUT
-BTL-	= BURIED TELEPHONE LINE		= COMBINATION UTILITY POLE
-COMM-	= COMMUNICATION LINE		= DRAINAGE MANHOLE
-G-	= GAS LINE		= ELECTRIC SERVICE METER
-OHL-	= OVERHEAD UTILITY LINE		= FLAT GRATE INLET
-WL-	= WATER LINE		= FIRE HYDRANT
-FM-	= FORCE MAIN		= DOWN GUY
-OTC-	= OVERHEAD TRAFFIC CONTROL		= WATER SPIGOT
	= TREE LINE		= HAND HOLE
	= GUARDRAIL		= IRON PIPE
ABS	= ACRYLONITRILE BUTADIENE STYRENE PIPE		= IRON ROD
BFOC	= BURIED FIBER OPTIC CABLE		= IRRIGATION VALVE
CMP	= CORRUGATED METAL PIPE		= LIGHT POLE
CPP	= CORRUGATED PLASTIC PIPE		= MAILBOX
PVC	= POLYVINYL CHLORIDE PIPE		= MITERED END SECTION
RCP	= REINFORCED CONCRETE PIPE		= NAIL W/DISC
LB	= LICENSED BUSINESS		= UTILITY POLE
PLS	= PROFESSIONAL LAND SURVEYOR		= POST/BOLLARD
RLS	= REGISTERED LAND SURVEYOR		= PUMP
PSM	= PROFESSIONAL SURVEYOR AND MAPPER		= RAILROAD SPIKE
R/W	= RIGHT OF WAY		= NON-TRAFFIC SIGN
GR SILT	= TOP OF SILT ELEVATION		= SPRINKLER
DB	= DEED BOOK		= SEWER VALVE
ORB	= OFFICIAL RECORDS BOOK		= TRAFFIC CONTROLLER CABINET
PG	= PAGE		= TRAFFIC SIGN
ID	= IDENTIFICATION		= TRANSFORMER ON SLAB
EOI	= END OF INFORMATION		= TRAFFIC SIGNAL SPAN POLE
NAD	= NORTH AMERICAN DATUM		= UTILITY MARKER
NAVD	= NORTH AMERICAN VERTICAL DATUM		= VAULT
TRAV.PT.	= TRAVERSE POINT		= WELL
SSMC	= SOUTHEASTERN SURVEYING & MAPPING CORPORATION		= WATER METER
TELE	= TELEPHONE		= WATER VALVE
FGTC	= FLORIDA GAS TRANSMISSION COMPANY		
FPL	= FLORIDA POWER & LIGHT COMPANY		



NOTES

- IN GENERAL, EXISTING FACILITIES AND UTILITIES ARE NOTED AS EXISTING AND/OR SHOWN IN LIGHT LINE WEIGHT (SCREENED). PROPOSED CONSTRUCTION IS SHOWN IN HEAVY LINE WEIGHT AND/OR IDENTIFIED AS PROPOSED. SCREENING IS ALSO USED IN ORDER TO CLARIFY DRAWINGS. FOR EXAMPLE, STRUCTURES ARE SCREENED ON MECHANICAL DRAWINGS TO HIGHLIGHT PIPING AND EQUIPMENT. THIS DRAFTING CONVENTION IS TYPICAL THROUGHOUT THE SET OF PLANS.
- THIS IS A STANDARD LEGEND DRAWING. SOME ITEMS MAY APPEAR IN LEGENDS AND NOT ON THE DRAWINGS.

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40% DESIGN-ERP SUBMITTAL

DESIGNED	A GOODDEN			
DRAWN	J ALLEN			
CHECKED	R KOLLER			
LTR.	DATE	REVISIONS	BY	APPRD.

JonesEdmunds
CERTIFICATE OF AUTHORIZATION #1841
 730 NE WALDO ROAD, GAINESVILLE, FLORIDA 32641 / (352) 377-5821
 8657 BAYPINE ROAD SUITE 300, JACKSONVILLE, FL 32256 / (904) 744-5401

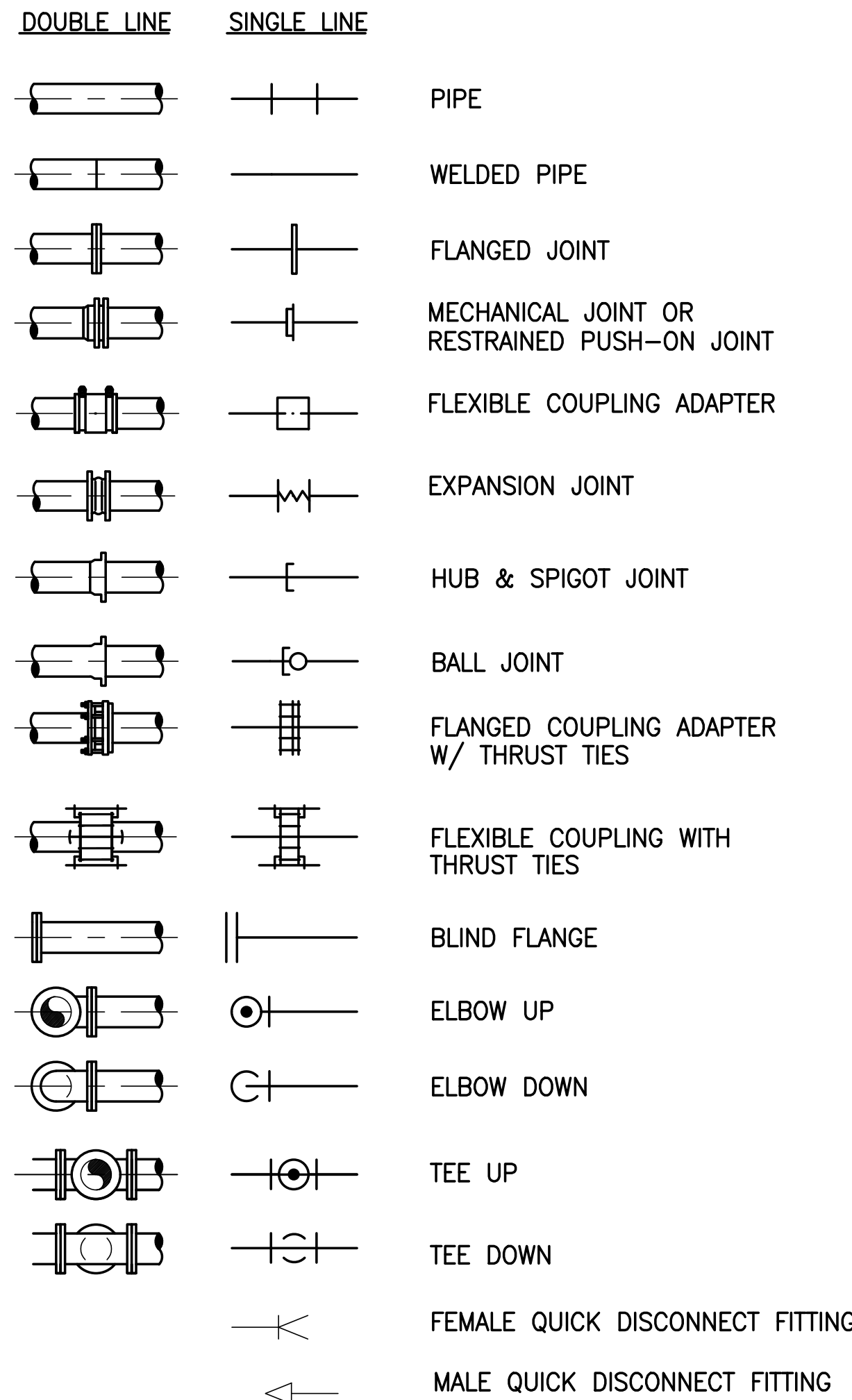
**CRANE CREEK
 M-1 CANAL FLOW RESTORATION
 VOLUME 2**

LEGENDS AND SECTION DESIGNATIONS

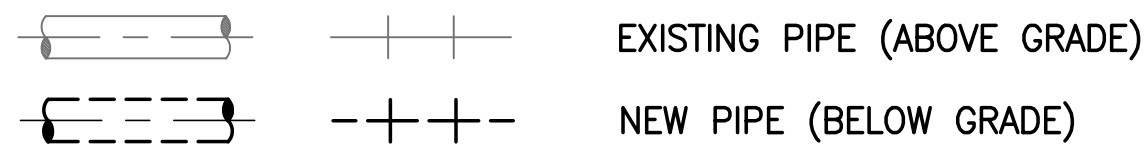
<small>AMY LIANE GOODDEN, PROFESSIONAL ENGINEER, STATE OF FLORIDA, LICENSE NUMBER 60097</small> <small>THIS ITEM HAS BEEN DIGITALLY SIGNED AND SEALED BY AMY LIANE GOODDEN ON THE DATE AT THE RIGHT.</small> <small>PRINTED COPIES OF THIS DOCUMENT ARE NOT CONSIDERED SIGNED AND SEALED AND THE SIGNATURE MUST BE VERIFIED ON ANY ELECTRONIC COPIES.</small>	PROJECT NO: 19750-066-01	DATE: JAN 2022
	INDEX NO:	DWG NO: G4

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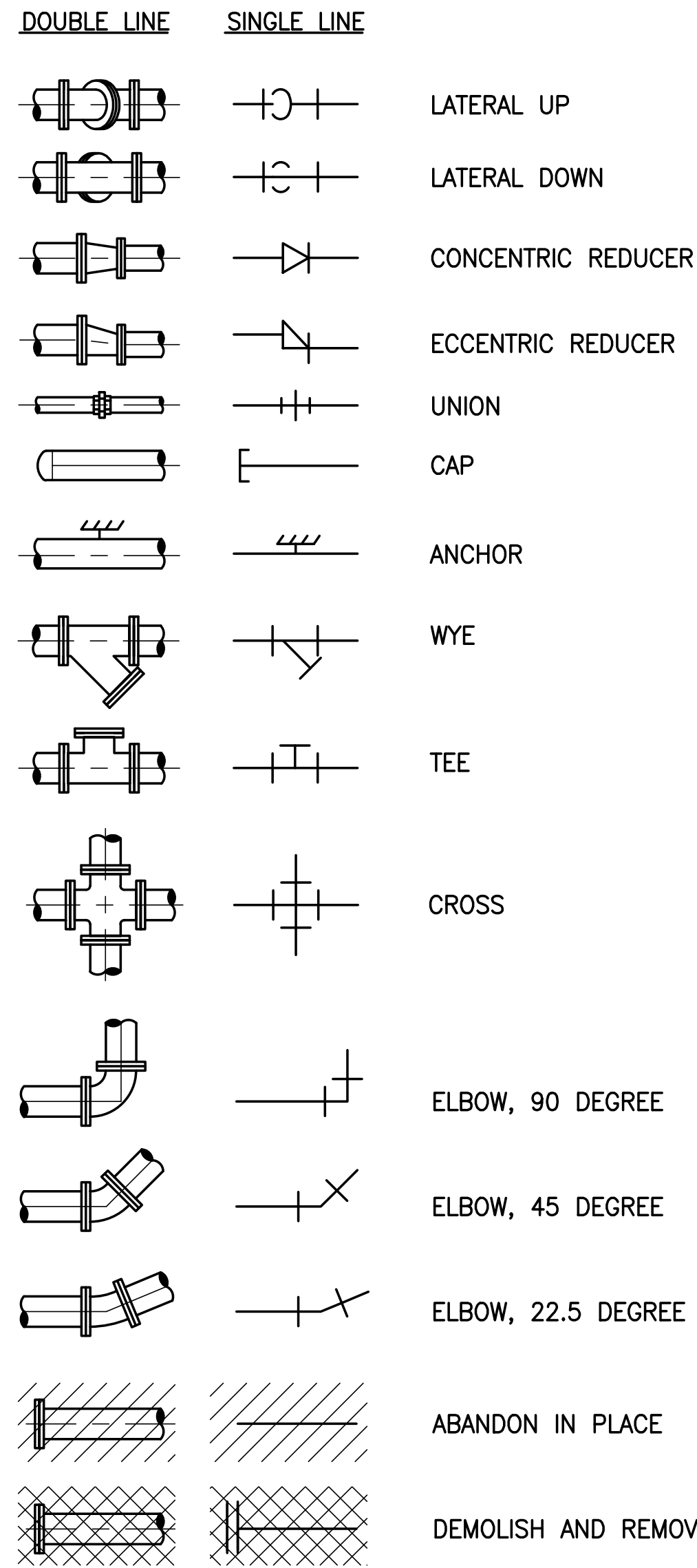
PIPING SYMBOLS



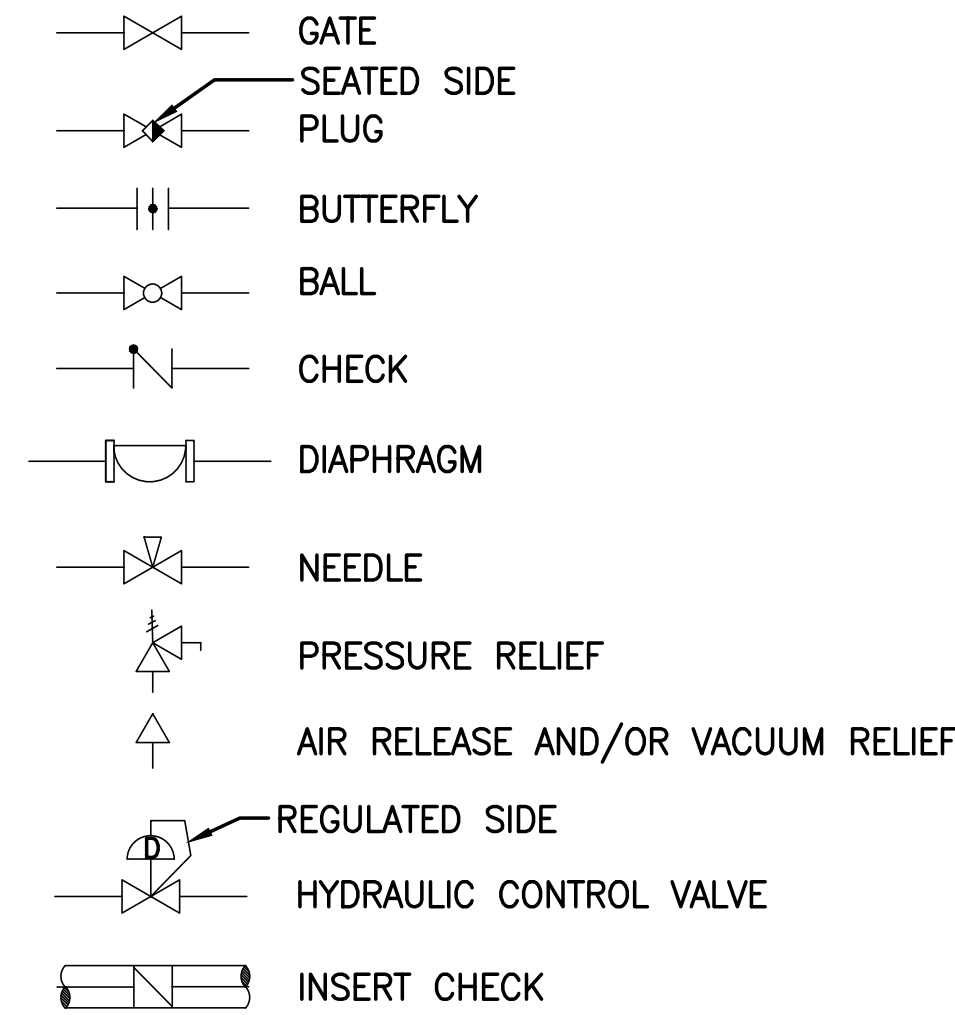
NOTE:
EXISTING PIPE AND EQUIPMENT ARE SHOWN IN THE DRAWINGS AS LIGHT-LINED AND/OR SCREENED. PROPOSED PIPE AND EQUIPMENT ARE SHOWN IN THE DRAWINGS AS HEAVY-LINED. ABOVE GRADE PIPE AND EQUIPMENT ARE SHOWN IN DRAWINGS AS SOLID-LINED EXCEPT FOR PIPELINE PLANS AND PROFILES. BELOW GRADE PIPE AND EQUIPMENT ARE SHOWN IN DRAWINGS AS DASHED-LINED. SEE BELOW EXAMPLES:



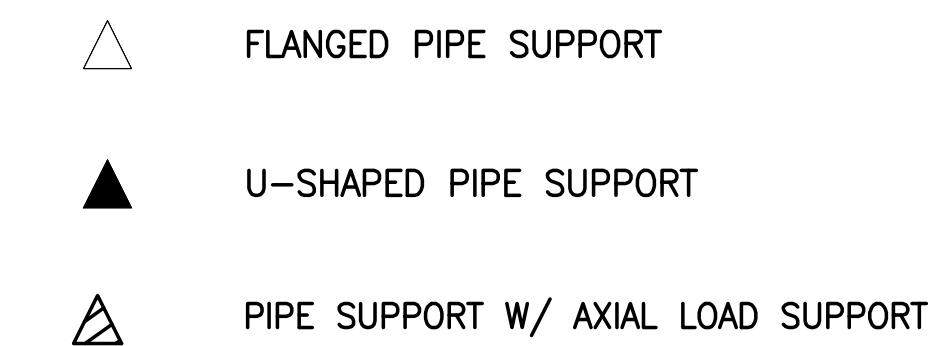
MECHANICAL LEGEND



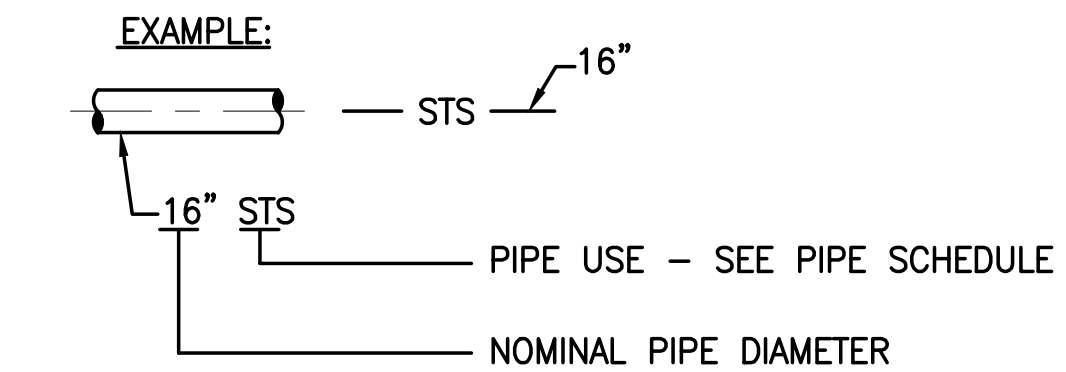
VALVE SYMBOLS



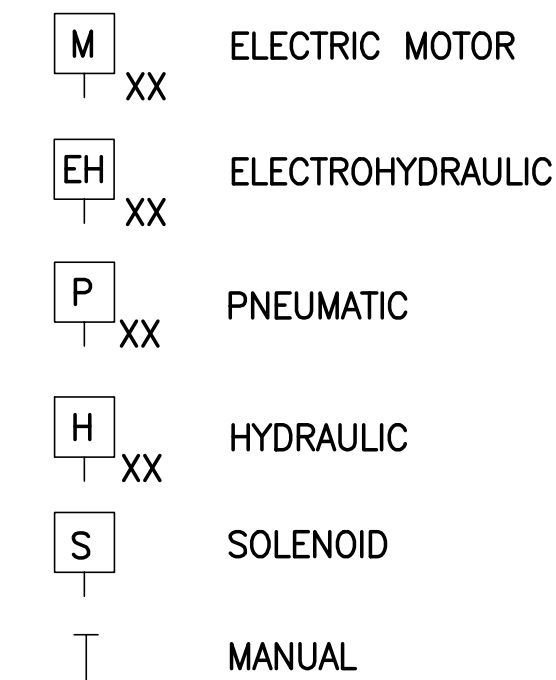
PIPE SUPPORT SYMBOLS



PIPING DESIGNATION



ACTUATOR SYMBOLS



NOTE:
ON LOSS OF PRIMARY POWER (PNEUMATIC, ELECTRICAL OR HYDRAULIC)
XX: FO = FAIL OPEN
FC = FAIL CLOSED
FLP = FAIL TO LAST POSITION

NOTE

1. THIS IS A STANDARD LEGEND DRAWING. SOME ITEMS MAY APPEAR IN LEGENDS AND NOT ON THE DRAWINGS.

PIPE SCHEDULE

FLOW STREAM IDENTIFICATION	PIPE/DUCT MATERIAL	PIPE MATERIAL ABBREV	SPECIFICATION NUMBER	PIPE LINING	NORMAL MAX OPERATING PRESSURE (PSIG)	FIELD TEST PRESSURE (PSIG)	EXPOSED PIPE PAINT SYSTEM	COLOR CODE	SPECIFIC NOTES	RESTRAINT SYSTEM NOTES
FM-1	DUCTILE IRON	DI	15155	CERAMIC EPOXY	25	100	12	BROWN STRIPE	(A)	(1)
FM-2	HIGH DENSITY POLYETHYLENE (DI PIPE SIZE)	HDPE, DR11	15146	N/A	25	100	N/A	BROWN STRIPE	N/A	(2)
FM-3	POLYVINYL CHLORIDE	PVC, DR18	15291	N/A	25	100	N/A	BROWN STRIPE	N/A	(1)
STS-1	REINFORCED CONCRETE	RCP		N/A	5	N/A	N/A	N/A	N/A	N/A
STS-2	POLYVINYL CHLORIDE	PVC, SDR 35		N/A	5	N/A	N/A	GREEN W/ "STORMWATER" STENCIL	N/A	N/A

GENERAL NOTES:

- COAT BURIED AND SUBMERGED PIPE PER PIPE SPECIFICATIONS.
- TEST LINES PER SECTION 15144 UNLESS NOTED OTHERWISE.

RESTRAINT SYSTEM NOTES:

- RESTRAIN EVERYTHING (FITTINGS, VALVES, ETC.) INCLUDING NEW TO EXISTING.
- RESTRAIN AT FITTINGS AND VALVES.

SPECIFIC NOTES:

- APPLY ABOVE GRADE PAINT SYSTEM ONLY TO PIPING EXPOSED TO SUNLIGHT. PIPING UNDER FACILITY CANOPY STRUCTURE SHALL BE CLASSIFIED AS EXPOSED TO SUNLIGHT.

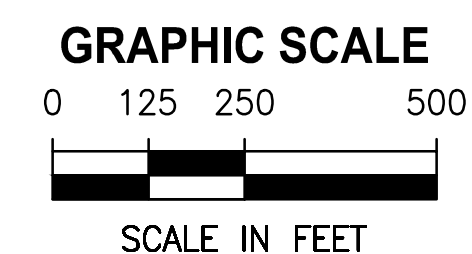
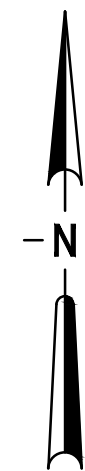
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DESIGNED: D SHELDON	<p>CERTIFICATE OF AUTHORIZATION #1841 730 NE WALDO ROAD, GAINESVILLE, FLORIDA 32641 / (352) 377-5821 8657 BAYPINE ROAD SUITE 300, JACKSONVILLE, FL 32256 / (904) 744-5401</p>	<p>CRANE CREEK M-1 CANAL FLOW RESTORATION VOLUME 2</p>	<p>MECHANICAL LEGEND & PIPE SCHEDULE</p>	PROJECT NO: 19750-066-01	DATE: JAN 2022
DRAWN: J ALLEN				INDEX NO:	DWG NO: G5
CHECKED: R KOLLER				<p>DONALD J. SHELDON, JR., P.E., STATE OF FLORIDA, LICENSE NUMBER 90306 THIS ITEM HAS BEEN DIGITALLY SIGNED AND SEALED BY DONALD J. SHELDON, JR. ON THE DATE INDICATED. PRINTED COPIES OF THIS DOCUMENT ARE NOT CONSIDERED SIGNED AND SEALED AND THE SIGNATURE MUST BE VERIFIED ON ANY ELECTRONIC COPIES.</p>	

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SAVED: 12/30/2021 12:23 PM PBOLLINGER Y:\19750-SURV\PROJECTS\066-01_CRANE_CREEK_M-1_FLOW_RESTORATION_DESIGN\CAD\VOLUME 2\DWGS\GENERAL\19750066-VOL2-G06.DWG



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LTR.	DATE	REVISIONS	BY	APPRD.

DESIGNED	A GOODDEN
DRAWN	J ALLEN
CHECKED	R KOLLER

JonesEdmunds
CERTIFICATE OF AUTHORIZATION #1841
 730 NE WALDO ROAD, GAINESVILLE, FLORIDA 32641 / (352) 377-5821
 8657 BAYPINE ROAD SUITE 300, JACKSONVILLE, FL 32256 / (904) 744-5401

**CRANE CREEK
 M-1 CANAL FLOW RESTORATION
 VOLUME 2**

KEY MAP

AMY LIANE GOODDEN, PROFESSIONAL ENGINEER, STATE OF FLORIDA, LICENSE NUMBER 60097
 THIS ITEM HAS BEEN DIGITALLY SIGNED AND SEALED BY AMY LIANE GOODDEN ON THE DATE AT THE RIGHT.
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PROJECT NO:	19750-066-01	DATE:	JAN 2022
INDEX NO:		DWG NO:	G6

PLOTTED: 1/26/2022 10:30 AM JON W. ALLEN, JR.

BREVARD COUNTY PUBLIC WORKS ENGINEERING STANDARD DEVELOPMENT NOTES

GENERAL

- ALL CONSTRUCTION SHALL CONFORM TO FDOT DESIGN STANDARDS (LATEST EDITION), FDOT STANDARD SPECIFICATIONS FOR ROAD & BRIDGE CONSTRUCTION (LATEST EDITION), BREVARD COUNTY UTILITY SERVICES CRITERIA FOR WATER AND SANITARY SEWER SYSTEMS, AND BREVARD COUNTY CODE OF ORDINANCES.
- ISSUANCE OF CERTIFICATE OF COMPLETION: UPON COMPLETION OF CONSTRUCTION OF THE PROJECT AND PRIOR TO SCHEDULING OF THE FINAL INSPECTION, THE APPLICANT OR THEIR AUTHORIZED REPRESENTATIVE, SHALL PROVIDE THE FOLLOWING DOCUMENTATION TO BREVARD COUNTY PUBLIC WORKS ENGINEERING:
 - A CERTIFICATE OF COMPLETION - REQUEST FOR FINAL INSPECTION FORM. THE FORM MUST BE FROM A PROFESSIONAL ENGINEER LICENSED IN THE STATE OF FLORIDA WITH THEIR SEAL AFFIXED. THE FORM CERTIFIES THAT THE IMPROVEMENTS HAVE BEEN CONSTRUCTED IN CONFORMANCE WITH THE APPROVED CONSTRUCTION PLANS AND SPECIFICATIONS.
 - A COMPLETE SET OF TESTING REPORTS FOR ALL TESTS PERFORMED ON THE PROJECT WITHIN THE COUNTY RIGHT-OF-WAY AND/OR FOR ALL SUBDIVISION CONSTRUCTION REGARDLESS OF PUBLIC OR PRIVATE.
 - THREE SETS OF AS-BUILT DRAWINGS MEETING THE REQUIREMENTS OF SECTION 61G17, F.A.C., AND SIGNED AND SEALED BY A SURVEYOR LICENSED IN THE STATE OF FLORIDA. AT A MINIMUM, ALL AS-BUILT DRAWINGS MUST INCLUDE:
 - ROAD/PAVEMENT ELEVATIONS; ROADWAY CROSS SLOPES; PAVEMENT WIDTH; PAVEMENT SPOT ELEVATIONS NECESSARY TO CONFIRM STORMWATER DRAINAGE PATTERNS AT INTERSECTIONS AND SIDEWALKS; CURB SLOPES;
 - STORMWATER PIPE SIZES AND INVERT ELEVATIONS; LOCATION OF OUTFALL STRUCTURE(S) WITH AS-BUILT ELEVATIONS FOR ALL CONTROL STRUCTURE & SKIMMER ELEVATIONS SHOWN ON THE APPROVED PLANS; TOP OF BANK, GRADE BREAKS, BOTTOM ELEVATIONS FOR ALL STORMWATER PONDS OR BERM AREAS;
 - ANY OTHER ADDITIONAL AS-BUILT DATA THAT IS APPLICABLE TO THE PROJECT TO ENSURE COMPLETION IN ACCORDANCE WITH THE APPROVED CONSTRUCTION PLANS.
 - PIPE INSPECTION VIDEO PER FDOT REQUIREMENTS. (IF APPLICABLE PER NOTE 4 OF DRAINAGE NOTES)
 - IF A MUNICIPALITY IS ACCEPTING A PUBLIC WATER AND/OR SEWER SYSTEM, THERE MUST BE DOCUMENTATION INDICATING MUNICIPAL ACCEPTANCE OF THE CONSTRUCTION OF THE WATER AND/OR SEWER SYSTEM.
 - PUBLIC WORKS ENGINEERING WILL NOT SIGN OFF ON A TEMPORARY CERTIFICATE OF OCCUPANCY (TCO) FROM THE BREVARD COUNTY BUILDING DEPARTMENT UNTIL THE AS-BUILT DRAWINGS AND OTHER DOCUMENTATION LISTED ABOVE HAVE BEEN SUBMITTED AND REVIEWED BY PUBLIC WORKS ENGINEERING.
 - PROJECTS CONNECTED TO THE BREVARD COUNTY WATER, SANITARY SEWER, AND/OR RECLAIMED WATER SYSTEMS MUST OBTAIN FINAL APPROVAL FOR THE PROJECT DIRECTLY FROM BREVARD COUNTY UTILITY SERVICES AS OUTLINED IN THE BREVARD COUNTY CRITERIA FOR WATER AND SANITARY SEWERAGE SYSTEMS.
- UPON APPROVAL OF FINAL INSPECTION, AN ENGINEER'S CERTIFIED COST ESTIMATE WILL BE REQUIRED ALONG WITH A 2-YEAR MAINTENANCE BOND FOR ALL IMPROVEMENTS WITHIN THE COUNTY RIGHT-OF-WAY AS REQUIRED BY CHAPTER 86 OF THE BREVARD COUNTY CODE OF ORDINANCES. THE MAINTENANCE BOND SHALL BE 25% OF THE ENGINEER'S CERTIFIED COST ESTIMATE.
- THE CONTRACTOR IS RESPONSIBLE FOR ALL DAMAGE TO THE COUNTY INFRASTRUCTURE DURING CONSTRUCTION. THIS INCLUDES, BUT IS NOT LIMITED TO, THE STRUCTURAL INTEGRITY OF THE ROADWAY ASPHALT, BASE, AND STABILIZED SUB-BASE, SIDEWALKS, STORMWATER DRAINAGE SYSTEM, DRAINAGE STRUCTURES, CURBS, GROUND COVER, WATER SYSTEMS, SANITARY SEWER SYSTEMS, AND RECLAIMED WATER SYSTEMS. ALL REPAIRS SHALL BE COMPLETED IN ACCORDANCE WITH FDOT AND BREVARD COUNTY STANDARDS. ALL REPAIRS SHALL BE COMPLETED PRIOR TO THE FINAL INSPECTION OF THE PROJECT. SIDEWALK PATCHING WILL NOT BE ACCEPTABLE.
- A VISUAL OR MECHANICAL INTERIOR INSPECTION OF EXISTING CULVERTS WILL BE REQUIRED PRIOR TO THE FINAL INSPECTION.
- ALL DISTURBED AREAS WITHIN THE COUNTY RIGHT-OF-WAY SHALL BE SODDED. SEED & MULCH IS NOT ACCEPTABLE. SOD SHALL MATCH EXISTING SOD TYPE. BAHIA SOD SHALL BE USED IN AREAS ADJACENT TO VACANT PROPERTY. DISTURBED AREAS OUTSIDE THE CONSTRUCTION LIMITS WILL BE SODDED AT THE CONTRACTOR'S EXPENSE.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL SURVEY MONUMENTATION. ANY SURVEY MONUMENTATION DISTURBED OR DESTROYED DURING CONSTRUCTION SHALL BE REPLACED BY A FLORIDA LICENSED SURVEYOR PRIOR TO ISSUANCE OF A CERTIFICATE OF COMPLETION FOR THE PROJECT.
- REGARDLESS OF PRIVATE OR PUBLIC DEDICATION, THERE SHALL BE NO UTILITY CONNECTIONS OR METER BOXES WITHIN PROPOSED OR EXISTING SIDEWALKS OR DRIVEWAY AREAS.
- ALL DIRECTIONAL BORES SHALL BE IN ACCORDANCE WITH FDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION SECTION 555, DIRECTIONAL BORES AND THE FDOT UTILITIES ACCOMMODATION MANUAL.
- ALL DIRECTIONAL BORES MUST EXTEND A MINIMUM OF EIGHT(8) FEET PAST THE EDGE OF PAVEMENT OF ANY ROADWAY OR COMMERCIAL DRIVEWAY. FOR RESIDENTIAL DRIVEWAYS AND SIDEWALKS, THE BORE MUST EXTEND THREE (3) FEET PAST THE EDGE ON EITHER SIDE.
- THE CONTRACTOR SHALL CONTROL DUST GENERATED BY THIS PROJECT AT ALL TIMES, SHALL PROVIDE STREET SWEEPING AS REQUIRED, AND PREVENT SEDIMENT FROM ENTERING INTO THE EXISTING DRAINAGE SYSTEM AT ALL TIMES.
- THE CONTRACTOR SHALL NOT EXCEED NOISE LEVELS AS SPECIFIED IN BREVARD COUNTY CODE OF ORDINANCES SECTION 62-2271.
- ALL STRIPING AND PAVEMENT MARKINGS IN THE COUNTY RIGHT-OF-WAY SHALL BE THERMOPLASTIC AND SHALL NOT BE APPLIED UNTIL A MINIMUM OF 30 DAYS AFTER THE PLACEMENT OF THE FINAL ASPHALT SURFACE. IN THE INTERIM, STRIPING SHALL BE PAINT AND ANY REQUIRED RPM'S INSTALLED PER THE PLANS. DO NOT STRIPE ACROSS MAN-HOLE LIDS OR DRAINAGE GRATES.
- REFLECTIVE PAVEMENT MARKINGS (RPM'S) SHALL BE INSTALLED IN ALL LOCATIONS AS REQUIRED BY FDOT DESIGN STANDARD. (LATEST EDITION)
- ANY PAVEMENT MARKINGS AND RPM'S THAT ARE DESTROYED, DAMAGED, OR DIMINISHED BY CONSTRUCTION ACTIVITIES FOR UP TO 500 FEET IN EITHER DIRECTION BEYOND THE LIMITS OF CONSTRUCTION SHALL BE REPLACED OR REFURBISHED BY THE CONTRACTOR.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE MAINTENANCE OF THE COUNTY RIGHT-OF-WAY FOR THE DURATION OF CONSTRUCTION. AT A MINIMUM, THE CONTRACTOR SHALL MOW THE RIGHT-OF-WAY ON AN AS NEEDED BASIS AND MAINTAIN THE DRAINAGE CONVEYANCE SYSTEM. ADDITIONAL MAINTENANCE MAY BE REQUIRED ON A CASE BY CASE BASIS.

TRAFFIC CONTROL

- MOT PLAN REVIEW:** A PROJECT-SPECIFIC MAINTENANCE OF TRAFFIC (MOT) PLAN OR ROADWAY CLOSURE MOT/DETOUR PLAN MUST BE SUBMITTED TO BREVARD COUNTY TRAFFIC OPERATIONS (321-633-2077) FOR APPROVAL A MINIMUM OF TWO (2) WEEKS PRIOR TO START OF CONSTRUCTION. THE MOT PLAN SHALL BE IN ACCORDANCE WITH MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) AND FDOT STANDARD INDEX 600 SERIES. (LATEST EDITIONS). PORTABLE CHANGEABLE MESSAGE SIGNS (PCMS OR VMS) MAY BE REQUIRED TO SUPPLEMENT THE STANDARD MOT SIGNAGE.
- LANE CLOSURES:** THE CONTRACTOR SHALL NOTIFY BREVARD COUNTY TRAFFIC OPERATIONS (321-633-2077) A MINIMUM OF TWO (2) WEEKS IN ADVANCE OF THE PROPOSED START DATE OF CONSTRUCTION WITHIN THE RIGHT-OF-WAY. FOR EACH PHASE OF CONSTRUCTION, IF APPLICABLE. CONSTRUCTION SHALL NOT BEGIN UNTIL THE MOT PLAN IS APPROVED AND NOTIFICATIONS HAVE BEEN SENT TO AFFECTED AGENCIES. CERTAIN LOCATIONS MAY REQUIRE WORK IN THE RIGHT-OF-WAY TO BE PERFORMED AT NIGHT ONLY.

- LANE CLOSURES:** THE CONTRACTOR SHALL NOTIFY BREVARD COUNTY TRAFFIC OPERATIONS (321-633-2077) A MINIMUM OF ONE (1) WEEK IN ADVANCE OF THE PROPOSED START DATE OF CONSTRUCTION WITHIN THE RIGHT-OF-WAY. CONSTRUCTION SHALL NOT BEGIN UNTIL THE MOT PLAN IS APPROVED AND NOTIFICATIONS HAVE BEEN SENT TO AFFECTED AGENCIES. NO LANE CLOSURES WILL BE PERMITTED DURING PEAK HOUR TRAFFIC VOLUMES.
- ALL TRAFFIC CONTROL DEVICES SHALL MEET THE REQUIREMENTS OF THE MUTCD FOR STREETS AND HIGHWAYS, FDOT STANDARDS (LATEST EDITIONS), AND BREVARD COUNTY LAND DEVELOPMENT EXHIBIT #26.

DRAINAGE - ROADWAYS

- ALL DRAINAGE SYSTEM CONSTRUCTION SHALL CONFORM TO FDOT STANDARD SPECIFICATIONS AND FDOT DESIGN STANDARDS, (LATEST EDITIONS).
- ALL RETICULINE STEEL GRATES SHALL BE HOT DIPPED GALVANIZED AND HAVE A TRAFFIC BEARING H-20 LOAD RATING.
- ALL GRATES UTILIZED WITHIN THE COUNTY RIGHT-OF-WAY SHALL BE TRAFFIC BEARING H-20 LOADING.
- ALL STORMWATER PIPING WITHIN THE ROAD RIGHT-OF-WAY, REGARDLESS OF PUBLIC OR PRIVATE, OR STORMWATER PIPING THAT CONVEYS STORMWATER UNDER THE ROADWAY BETWEEN STORMWATER TREATMENT PONDS, SHALL BE INSPECTED PER SECTIONS 430-4.8, 430-4.8.1, AND 430-4.8.2 OF THE FDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, (LATEST EDITION), A COPY OF THE PIPE VIDEO SHALL BE PROVIDED TO THE COUNTY AS PART OF THE SUBMITTAL OF THE CERTIFICATION OF COMPLETION REQUEST FOR FINAL INSPECTION. THE COUNTY SHALL BE NOTIFIED ONE WEEK PRIOR TO THE START OF THE PIPE VIDEO INSPECTION PROCESS.
- ALL OPEN CUTS SHALL CONFORM TO LAND DEVELOPMENT EXHIBIT #25. FOR ALL OPEN CUTS, THE FLOWABLE FILL AND TEMPORARY ASPHALT SHALL BE INSTALLED WITHIN TWO (2) DAYS OF THE EXCAVATION (UNLESS OTHERWISE APPROVED IN WRITING BY BREVARD COUNTY PUBLIC WORKS ENGINEERING). PERMANENT ASPHALT INCLUDING MILLING AND RESURFACING, IF NEEDED, SHALL BE COMPLETED WITHIN THIRTY (30) DAYS OF EXCAVATION.
- THE CONTRACTOR SHALL REMOVE THE SHOULDER OF THE ROADWAY TO A POINT WHERE THE BASE MATERIAL OF THE EXISTING ROADWAY MEETS THE MINIMUM THICKNESS OF THE PROPOSED ROADWAY/COMMERCIAL DRIVEWAY CONNECTION.

CONCRETE PAVING AND SIDEWALK

- ALL DRIVEWAYS SHALL BE CONSTRUCTED PER FDOT INDEX 515 AND/OR BREVARD COUNTY STANDARD EXHIBITS UNLESS OTHERWISE NOTED.
- ALL CONCRETE SHALL MEET FDOT DESIGN MIX AND SPECIFICATIONS. CURING METHOD SHALL BE IN ACCORDANCE WITH THE FDOT SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, (LATEST EDITION).
- ALL SIDEWALKS WITHIN THE COUNTY RIGHT-OF-WAY OR WITHIN A PUBLIC SIDEWALK EASEMENT SHALL BE CONSTRUCTED OF 6-INCH THICK, 3000-PSI CONCRETE WITH FIBER MESH REINFORCEMENT. CONCRETE SIDEWALKS (OR PEDWAYS) AND CONCRETE DRIVEWAY APRONS SHALL BE CONSTRUCTED OVER SOILS COMPACTED TO 98% DENSITY, OF AASHTO T -180. SHOULD EXISTING SOILS BE FOUND UNSUITABLE FOR COMPACTION, ADDITIONAL COMPATIBLE MATERIALS SHALL BE BROUGHT TO THE SITE FOR USE AS SUBGRADE. ALTERNATE METHODS OF COMPACTION MAY BE REQUIRED TO AVOID DAMAGE TO SURROUNDING PROPERTIES.
- CONSTRUCT SIDEWALK JOINTS PURSUANT TO FDOT INDEX 310 (LATEST EDITION). EXPANSION JOINTS SHALL BE EVERY 50 FEET, AND BETWEEN NEW AND OLD CONCRETE.
- TWO BY FOUR FORM BOARDS SHALL NOT BE USED FOR SIDEWALK/DRIVEWAY CONSTRUCTION. FORM BOARDS SHALL MATCH PROPOSED CONCRETE THICKNESS. SLIP FORMS SHALL NOT BE USED FOR SIDEWALK CONSTRUCTION. FIXED FORMWORK SHALL BE REQUIRED PER FDOT INDEX 300.
- THE CONTRACTOR SHALL PROVIDE A 3-FOOT CURB TRANSITION AT ALL CURB TERMINATIONS.
- ALL SIDEWALK AND ACCESS RAMP CONSTRUCTION SHALL COMPLY WITH THE DEPARTMENT OF JUSTICE 2010 ADA STANDARDS FOR ACCESSIBLE DESIGN, FDOT DESIGN STANDARDS (LATEST EDITION), AND BREVARD COUNTY DEVELOPMENT REQUIREMENTS.

ASPHALT PAVING AND TESTING

THE FOLLOWING TESTING REQUIREMENTS APPLY TO:

- ALL PUBLIC AND PRIVATE SUBDIVISION PROJECTS PERMITTED THROUGH BREVARD COUNTY PLANNING AND DEVELOPMENT;
 - ALL SITE PLAN PROJECTS PERMITTED THROUGH BREVARD COUNTY PLANNING AND DEVELOPMENT REQUIRING WORK IN THE COUNTY RIGHT-OF-WAY;
 - ALL PROJECTS PERMITTED THROUGH BREVARD COUNTY PUBLIC WORKS FOR WORK WITHIN THE COUNTY RIGHT-OF-WAY.
- SECTIONS WITHIN THE FDOT STANDARD SPECIFICATIONS LIMITING TESTING REQUIREMENTS BASED ON LOT SIZE, SUB-LOT SIZE, TONNAGE, MINIMUM THICKNESS, OR SPREAD RATE WILL NOT APPLY TO THE PROJECTS LISTED ABOVE. AT A MINIMUM, ONE SET OF TESTS WILL BE REQUIRED FOR ALL PAVING PROJECTS LARGER THAN 50 TONS TOTAL AND ADDITIONAL TESTING MAY BE REQUIRED ON A CASE BY CASE EVALUATION OF THE PROJECT. TESTING REQUIREMENTS AT THE ASPHALT PLANT WILL NOT APPLY.

FOR S-TYPE ASPHALT AS SPECIFIED IN THE 2000-2004 FDOT STANDARD SPECIFICATION :

- THE CONTRACTOR SHALL PROVIDE A DESIGN MIX SIGNED AND SEALED BY A PROFESSIONAL ENGINEER LICENSED IN THE STATE OF FLORIDA AND APPROVED BY THE ENGINEER OF RECORD FOR THE PROJECT TO PUBLIC WORKS ENGINEERING FIVE BUSINESS DAYS PRIOR TO PAVING. THE MIX DESIGN SHALL MEET FDOT MINIMUM REQUIREMENTS AS OUTLINED IN SECTION 331-4 (2000). DESIGN MIXES BY FDOT CERTIFIED MIX DESIGNERS WILL NOT BE ACCEPTED.
- THE CONTRACTOR SHALL PROVIDE EXTRACTION/GRADATION TESTS IN ACCORDANCE WITH SECTION 331-4.4.2 (2000).
- THE CONTRACTOR SHALL PROVIDE MARSHALL STABILITY TESTING IN ACCORDANCE WITH SECTION 331-5.5.1 (2000).
- PAVEMENT SURFACE SHALL MEET ALL REQUIREMENTS SPECIFIED IN SECTION 330-13 (2000).
- THE CONTRACTOR SHALL PROVIDE SURFACE TOLERANCE TESTING FOR ROADWAYS WITH DESIGN SPEEDS OF 35 MPH OR GREATER IN ACCORDANCE WITH SECTION 330-13.3 (2000).
- QUALITY CONTROL CORE BORINGS SHALL BE OBTAINED FOR THICKNESS PER SECTION 330-2.2 ROADWAY, (2004) AND DENSITY PER SECTION 330-11, TABLE 330-3 (2000).
- ASPHALT TEST RESULTS FOR EACH CORE TAKEN ARE REVIEWED ON AN INDIVIDUAL BASIS FOR THICKNESS AND DENSITY. THICKNESS AND DENSITY AVERAGES WILL NOT BE ACCEPTED. NO UNDER TOLERANCE FOR THE THICKNESS OF EACH ASPHALT CORE WILL BE ALLOWED.

FOR SUPERPAVE (SP) ASPHALT AS SPECIFIED IN THE 2010 FDOT STANDARD SPECIFICATION :

- THE CONTRACTOR SHALL PROVIDE AN FDOT APPROVED DESIGN MIX, APPROVED BY THE ENGINEER OF RECORD FOR THE PROJECT, TO PUBLIC WORKS ENGINEERING FIVE BUSINESS DAYS PRIOR TO PAVING. THE MIX DESIGN SHALL MEET FDOT MINIMUM REQUIREMENTS AS OUTLINED IN SECTION 334-2 & 334-3 (2010). DESIGN MIXES BY FDOT CERTIFIED MIX DESIGNERS THAT ARE NOT FDOT APPROVED WILL NOT BE ACCEPTED.
- THE CONTRACTOR SHALL PROVIDE GRADATION AND BINDER CONTENT TESTING IN ACCORDANCE WITH SECTION 334-5. (2010) HOWEVER, THE SAMPLE(S) MAY BE TAKEN AT THE PROJECT LOCATION IN LIEU OF AT THE ASPHALT PLANT AS SPECIFIED. RESULTS MUST BE PROVIDED TO THE COUNTY WITHIN ONE WEEK AFTER THE COMPLETION OF PAVING.
- THE CONTRACTOR SHALL PROVIDE QUALITY CONTROL, DENSITY, AND THICKNESS TESTING IN ACCORDANCE WITH SECTIONS 334-3, 334-4, 334-5, AND 334-5.2.3 (2010).
- ASPHALT TESTING RESULTS FOR EACH CORE TAKEN ARE REVIEWED ON AN INDIVIDUAL BASIS FOR THICKNESS AND DENSITY. THICKNESS AND DENSITY AVERAGES, AS NOTED IN TABLE 334-5, NOTE 2, OF SECTION 334-5 (2010) WILL NOT BE ACCEPTED. NO UNDER TOLERANCE FOR THE THICKNESS OF EACH ASPHALT CORE WILL BE ALLOWED.
- PAVEMENT SURFACE SHALL MEET ALL REQUIREMENTS SPECIFIED IN SECTION 330-12 (2010).
- THE CONTRACTOR SHALL PROVIDE QUALITY CONTROL SURFACE TOLERANCE TESTING FOR ROADWAYS WITH DESIGN SPEEDS OF 35 MPH OR GREATER IN ACCORDANCE WITH 330-12 (2010).

FOR FRICTION COURSE FC-5 AS SPECIFIED IN THE 2010 FDOT STANDARD SPECIFICATION :

- THE CONTRACTOR SHALL PROVIDE AN FDOT APPROVED DESIGN MIX, APPROVED BY THE ENGINEER OF RECORD FOR THE PROJECT, TO PUBLIC WORKS ENGINEERING FIVE BUSINESS DAYS PRIOR TO PAVING. THE MIX DESIGN SHALL MEET FDOT MINIMUM REQUIREMENTS AS OUTLINED IN SECTION 337-4 (2010). DESIGN MIXES BY FDOT CERTIFIED MIX DESIGNERS THAT ARE NOT FDOT APPROVED WILL NOT BE ACCEPTED.
- THE CONTRACTOR SHALL PROVIDE GRADATION AND BINDER CONTENT TESTING IN ACCORDANCE WITH SECTION 337-5 & 337-6 (2010). THE SAMPLE(S) MAY BE TAKEN AT THE PROJECT LOCATION IN LIEU OF AT THE ASPHALT PLANT AS SPECIFIED. RESULTS MUST BE PROVIDED TO THE COUNTY WITHIN ONE WEEK AFTER THE COMPLETION OF PAVING.
- PAVEMENT SURFACE SHALL MEET ALL REQUIREMENTS SPECIFIED IN SECTION 330-12 (2010).
- QUALITY CONTROL CORE BORINGS SHALL BE OBTAINED FOR THICKNESS TESTING USING SECTION 334-5.2.3 (2010).
- THE CONTRACTOR SHALL PROVIDE QUALITY CONTROL SURFACE TOLERANCE TESTING FOR ROADWAYS WITH DESIGN SPEEDS OF 35 MPH OR GREATER IN ACCORDANCE WITH SECTION 330-12 (2010).

FOR SUPERPAVE FRICTION COURSES FC-9.5 & FC-12.5 AS SPECIFIED IN THE 2010 FDOT STANDARD SPECIFICATIONS:


- THE CONTRACTOR SHALL PROVIDE AN FDOT APPROVED DESIGN MIX, APPROVED BY THE ENGINEER OF RECORD FOR THE PROJECT, TO PUBLIC WORKS ENGINEERING FIVE BUSINESS DAYS PRIOR TO PAVING. THE MIX DESIGN SHALL MEET FDOT MINIMUM REQUIREMENTS AS OUTLINED IN SECTION 337-4 (2010). DESIGN MIXES BY FDOT CERTIFIED MIX DESIGNERS THAT ARE NOT FDOT APPROVED WILL NOT BE ACCEPTED.
- THE CONTRACTOR SHALL PROVIDE GRADATION AND BINDER CONTENT TESTING IN ACCORDANCE WITH SECTION 337-5 & 337-6 (2010). THE SAMPLE(S) MAY BE TAKEN AT THE PROJECT LOCATION IN LIEU OF AT THE ASPHALT PLANT, AS SPECIFIED. RESULTS MUST BE PROVIDED TO THE COUNTY WITHIN ONE WEEK AFTER THE COMPLETION OF PAVING.
- THE CONTRACTOR SHALL PROVIDE QUALITY CONTROL, DENSITY, AND THICKNESS TESTING IN ACCORDANCE WITH SECTIONS 337-1, 337-3, 337-4, 337-6, 337-8, AND 334-5.2.3 (2010).
- ASPHALT TESTING RESULTS FOR EACH CORE TAKEN ARE REVIEWED ON AN INDIVIDUAL BASIS FOR THICKNESS AND DENSITY. THICKNESS AND DENSITY AVERAGES, AS NOTED IN TABLE 334-5, NOTE 2, OF SECTION 334-5 (2010) WILL NOT BE ACCEPTED. NO UNDER TOLERANCE FOR THE THICKNESS OF EACH ASPHALT CORE WILL BE ALLOWED.
- PAVEMENT SURFACE SHALL MEET ALL REQUIREMENTS SPECIFIED IN SECTION 330-12 (2010).
- THE CONTRACTOR SHALL PROVIDE QUALITY CONTROL SURFACE TOLERANCE TESTING FOR ROADWAYS WITH DESIGN SPEEDS OF 35 MPH OR GREATER IN ACCORDANCE WITH 330-12 (2010).

CONCRETE BOX CULVERT NOTES

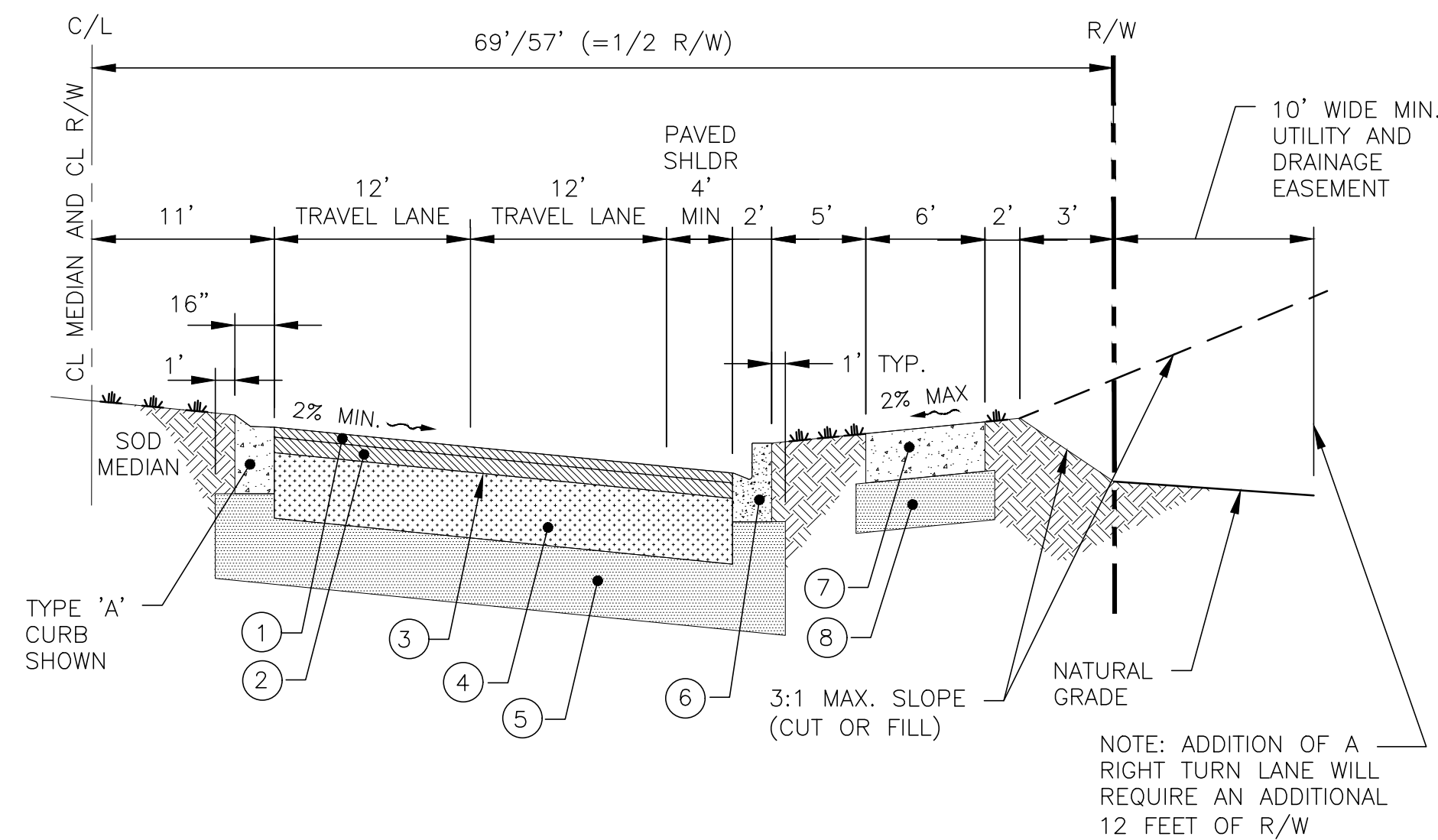
- ALL CONSTRUCTION SHALL COMPLY WITH FDOT DESIGN STANDARDS (LATEST EDITION), FDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION (LATEST EDITION), AND BREVARD COUNTY STANDARDS.
- PRIOR TO START OF CONSTRUCTION, THE SITE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING STRUCTURAL ENGINEERING DRAWINGS (SIGNED & SEALED BY A PROFESSIONAL ENGINEER LICENSED & REGISTERED IN THE STATE OF FLORIDA) FOR ALL COMPONENTS OF THE CONCRETE BOX CULVERTS, INCLUDING WINGWALLS, TOE SLAB & CUTOFF WALLS, AND HEADWALLS. THE DRAWINGS SHALL INCLUDE QUANTITIES TABULATIONS FOR CLASS IV CONCRETE (CUBIC YARDS), AND REINFORCING STEEL (POUNDS). THE DESIGN MUST BE BASED ON FDOT'S LOAD & RESISTANCE FACTOR DESIGN (LRFD) PROGRAM. SEPARATE DRAWINGS ARE REQUIRED FOR ALL WINGWALLS, TOE SLABS & CUTOFF WALLS, AND HEADWALLS, WHICH MUST BE CAST-IN-PLACE PER FDOT SPECIFICATIONS.
- ALL BOX CULVERT MATERIALS THAT ARE TO BE INSTALLED UNDER ROADWAYS AND/OR DRIVEWAYS ARE TO BE DELIVERED TO SITE (AND PASS INITIAL INSPECTIONS) PRIOR TO START OF DEMOLITION OF EXISTING SYSTEM.
- CONCRETE (PRECAST OR CAST-IN-PLACE) REQUIREMENTS: CLASS IV (5500 PSI).
- REINFORCING STEEL REQUIREMENTS: ASTM A615 GRADE 60 DEFORMED BAR UNLESS OTHERWISE NOTED, WITH A MINIMUM CLEARANCE OF 3" (THREE INCHES), UNLESS OTHERWISE SHOWN. EQUAL AREA SUBSTITUTION OF WELDED WIRE (WWW) REINFORCEMENT IS PERMITTED.
- REFER TO FDOT INDEX 292 FOR PRECAST CONCRETE BOX CULVERT SLAB & WALL THICKNESSES, REINFORCEMENT AREAS, GENERAL NOTES (SHEET 2 OF 14), AND WELDED WIRE REINFORCEMENT BENDING DIAGRAMS (SHEET 14 OF 14).
- REFER TO FDOT INDEX 289 FOR CONCRETE BOX CULVERT DETAILS RELATED TO LRFD.
- REFER TO FDOT INDEX 291 FOR SUPPLEMENTAL DETAILS FOR PRECAST CONCRETE BOX CULVERTS.
- IF REQUIRED, BY-PASS PUMPING AND/OR PIPING SHALL BE APPROVED BY BREVARD COUNTY PUBLIC WORKS PRIOR TO THE START OF CONSTRUCTION.

FILE NAME: M-1 FLOW RESTORATION DISCHARGE
 PROJECTS: 066-01-CRANE CREEK_M-1_FLOW_RESTORATION_DESIGN_CAD_VOLUME_2\DWGS\GENERAL\19750066-VOL2-C09.DWG
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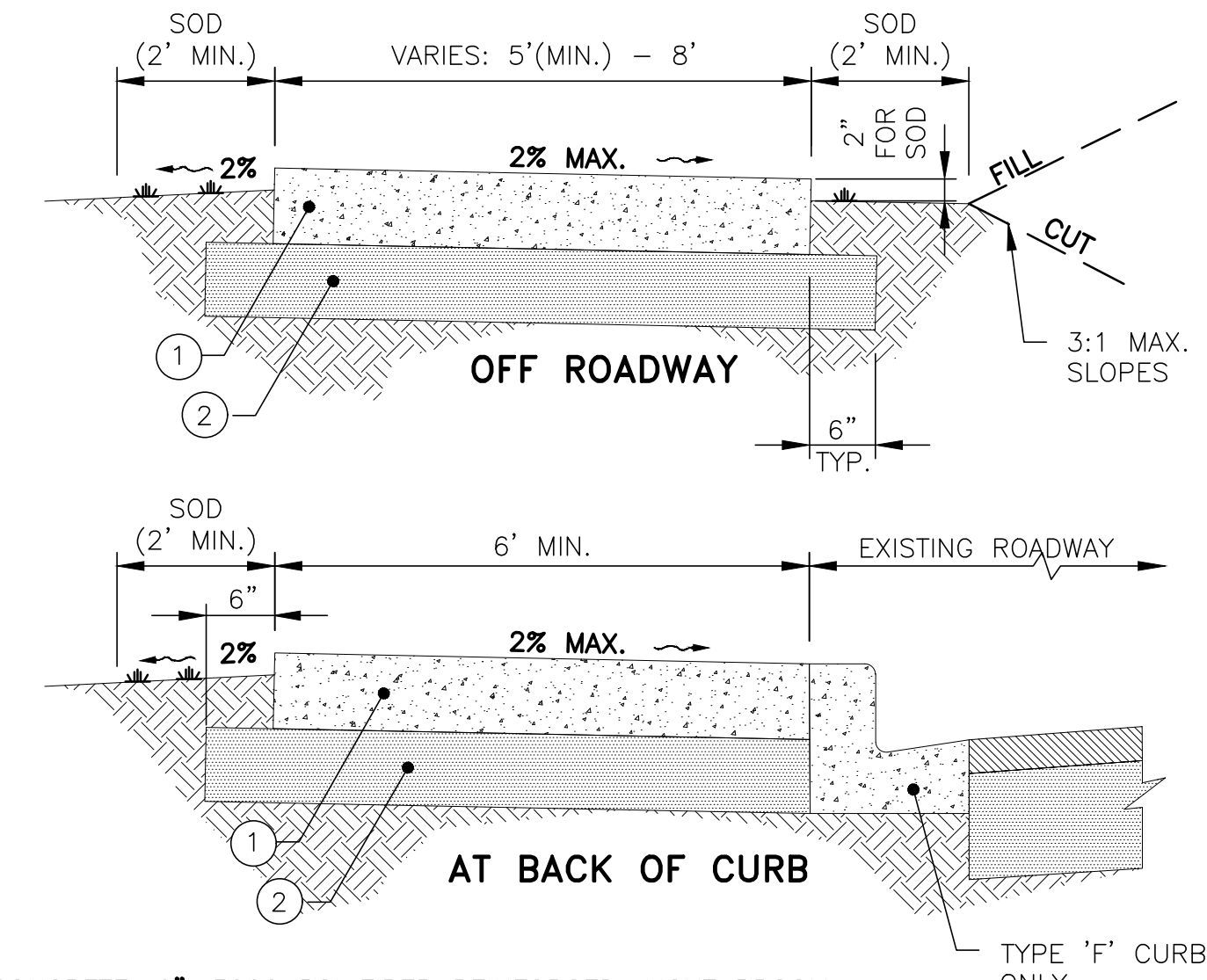
PROJECT NAME/DWG DESIGNED/DRAWN BY: JB		DATE: 10-10-12	REVISION: 1. FOR DISTRIBUTION	BY: RBS	PREPARED BY: PUBLIC WORKS DEPARTMENT ENGINEERING PROGRAM BREVARD COUNTY BOARD OF COUNTY COMMISSIONERS 2725 JUDGE FRAN JAMIESON WAY, RM. 204, BLDG. A, VIERA, FL 32940 Ph. (321) 637-5437, Fx. (321) 633-2083	DATE: OCTOBER 2012	APPROVED BY: RICHARD B. SZPYRKA, P.E. ENGINEERING PROGRAM MANAGER	BREVARD COUNTY PUBLIC WORKS ENGINEERING STANDARD DEVELOPMENT NOTES		SHEET 1 OF 1	
DESIGNED: A GOODDEN		 <p>CERTIFICATE OF AUTHORIZATION #1841 730 NE WALDO ROAD, GAINESVILLE, FLORIDA 32641 / (352) 377-5821 8657 BAYPINE ROAD SUITE 300, JACKSONVILLE, FL 32256 / (904) 744-5401</p>									
DRAWN: J ALLEN											
CHECKED: R KOLLER											
LTR.	DATE	REVISIONS	BY	APPRD.	CRANE CREEK M-1 CANAL FLOW RESTORATION VOLUME 2		BREVARD COUNTY PUBLIC WORKS ENGINEERINGS STD DEVELOPMENT NOTES		ANY LIANE GOODDEN, PROFESSIONAL ENGINEER, STATE OF FLORIDA, LICENSE NUMBER 60097 THIS ITEM HAS BEEN DIGITALLY SIGNED AND SEALED BY AMY LIANE GOODDEN ON THE DATE AT THE RIGHT. PRINTED COPIES OF THIS DOCUMENT ARE NOT CONSIDERED SIGNED AND SEALED AND THE SIGNATURE MUST BE VERIFIED ON ANY ELECTRONIC COPIES.	PROJECT NO: 19750-066-01	DATE: JAN 2022
									INDEX NO:	DWG NO: G9	

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- ① FRICTION COURSE: 1-1/2" TYPE FC-12.5 OPEN GRADED FRICTION
- ② STRUCTURAL COURSE: 2" TYPE S-1 ASPHALTIC CONCRETE, OR SP-12.5 SUPERPAVE MIX, TESTED PER FDOT AND/OR BREVARD COUNTY STANDARD REQUIREMENTS
- ③ PRIME COAT: FDOT APPROVED PRIME COAT PER STANDARD SPECIFICATION SECTION 300
- ④ BASE COURSE: 10" LIMEROCK OR CEMENTED COQUINA, MIN. LBR OF 100, COMPACTED TO 98% DENSITY PER AASHTO T-180
- ⑤ SUBGRADE: 12" TYPE "B" STABILIZED TO A MIN. LBR OF 40, COMPACTED TO 98% DENSITY PER AASHTO T-180
- ⑥ CURB AND GUTTER: FDOT TYPE "F" CURB AND GUTTER SHALL BE 3000 PSI MIN. AND CONSTRUCTED IN ACCORDANCE WITH FDOT INDEX 300
- ⑦ PEDWAY: 6" THICK FDOT CLASS 1, 3000 PSI FIBER REINFORCED CONCRETE WITH LIGHT BROOM FINISH. CROSS SLOPE SHALL BE BETWEEN 1.0% MIN. AND 2.0% MAX.
- ⑧ PEDWAY SUBGRADE: 6" TYPE "B" STABILIZED TO A MIN. LBR OF 40, COMPACTED TO 98% DENSITY PER AASHTO T-180

ARTERIAL (MAJOR AND MINOR) URBAN - HALF CROSS SECTION



- ① CONCRETE: 6", 3000 PSI FIBER REINFORCED. LIGHT BROOM FINISH, CURED WITH A WHITE CURING COMPOUND AS PER FDOT STANDARD SPECIFICATION SECTION 925-2.1.
- ② SUBGRADE: 6", COMPACTED TO A MINIMUM OF 98% MAX. DENSITY - AASHTO T-180

PEDWAY CONSTRUCTION REQUIREMENTS

1. PEDESTRIAN WAY SHALL BE CONSTRUCTED OF FDOT CLASS 1, 3000 PSI FIBER REINFORCED CONCRETE. NO UNDER TOLERANCE WILL BE ACCEPTED. IF 28 DAY BREAKS FALL BELOW STRENGTH, CONTRACTOR SHALL REMOVE AND RECONSTRUCT PEDWAY.
2. SIDEWALKS CONSTRUCTED ACROSS DRIVEWAYS SHALL MEET THE REQUIREMENTS OF FDOT DESIGN STANDARDS, LATEST EDITION, INDEX 515 "TURNOUTS".
3. SIDEWALK SLOPES AND RAMPS SHALL MEET ADA REQUIREMENTS AND THOSE OF FDOT INDEX 304.
4. ALL AREAS DISTURBED BY CONSTRUCTION SHALL BE SODDED TO MATCH PREVIOUS CONDITION OR BETTER, BY CONTRACTOR.
5. CONTRACTOR SHALL BE RESPONSIBLE FOR RESTORATION OF ANY ITEMS DAMAGED DURING CONSTRUCTION PROCESS, TO ORIGINAL CONDITION OR BETTER.
6. CONTRACTION JOINTS SHALL BE SAW CUT 1 1/2" DEEP (MIN.) ON 5-FOOT CENTERS; EXPANSION JOINTS SHALL BE AT MAX. 50-FOOT CENTERS, AT THE PC AND PT OF CURVES, JUNCTIONS WITH EXISTING AND NEW SIDEWALKS, AND WHERE NEW SIDEWALKS ABUT CURBS, DRIVEWAYS, AND SIMILAR STRUCTURES.
7. AN EIGHT (8) FOOT WIDE PEDWAY MAY BE CONSTRUCTED ON ONE SIDE OF THE STREET, VERSUS CONSTRUCTING A 5' WIDE SIDEWALK ON BOTH SIDES, ONLY UPON APPROVAL FROM LAND DEVELOPMENT.

PEDWAY CONSTRUCTION DETAILS

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DESIGNED A GOODDEN
 DRAWN J ALLEN
 CHECKED R KOLLER

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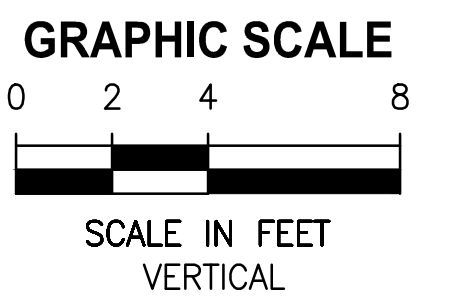
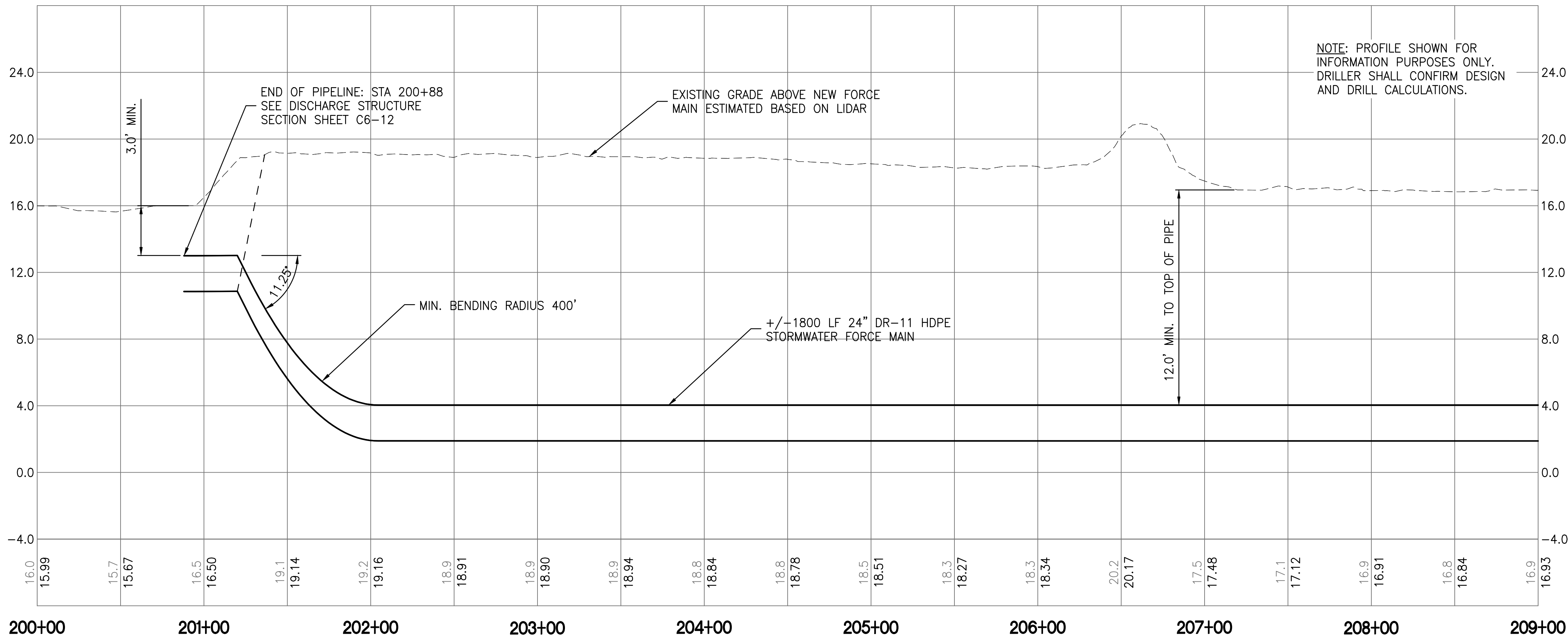
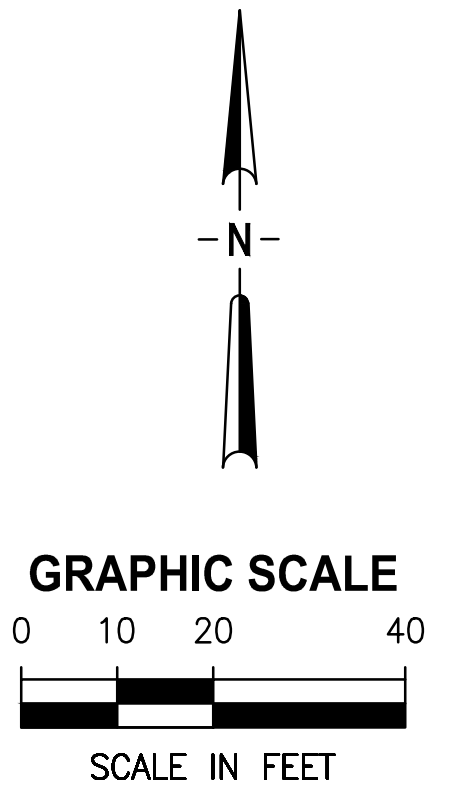
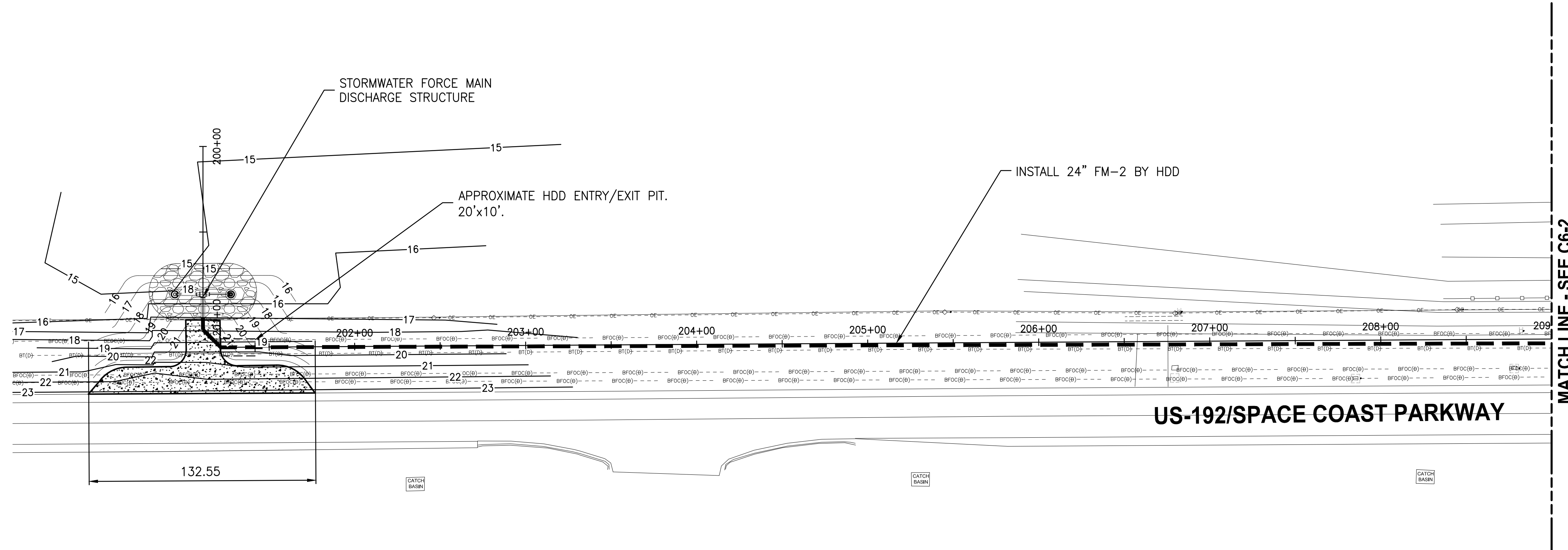
**CRANE CREEK
 M-1 CANAL FLOW RESTORATION
 VOLUME 2**

**BREVARD COUNTY LAND
 DEVELOPMENT EXHIBITS**

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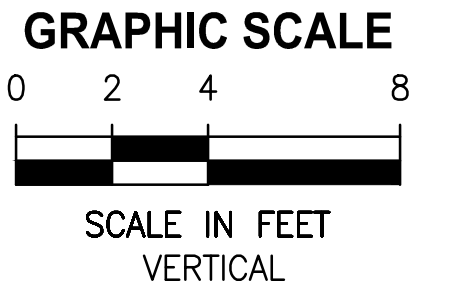
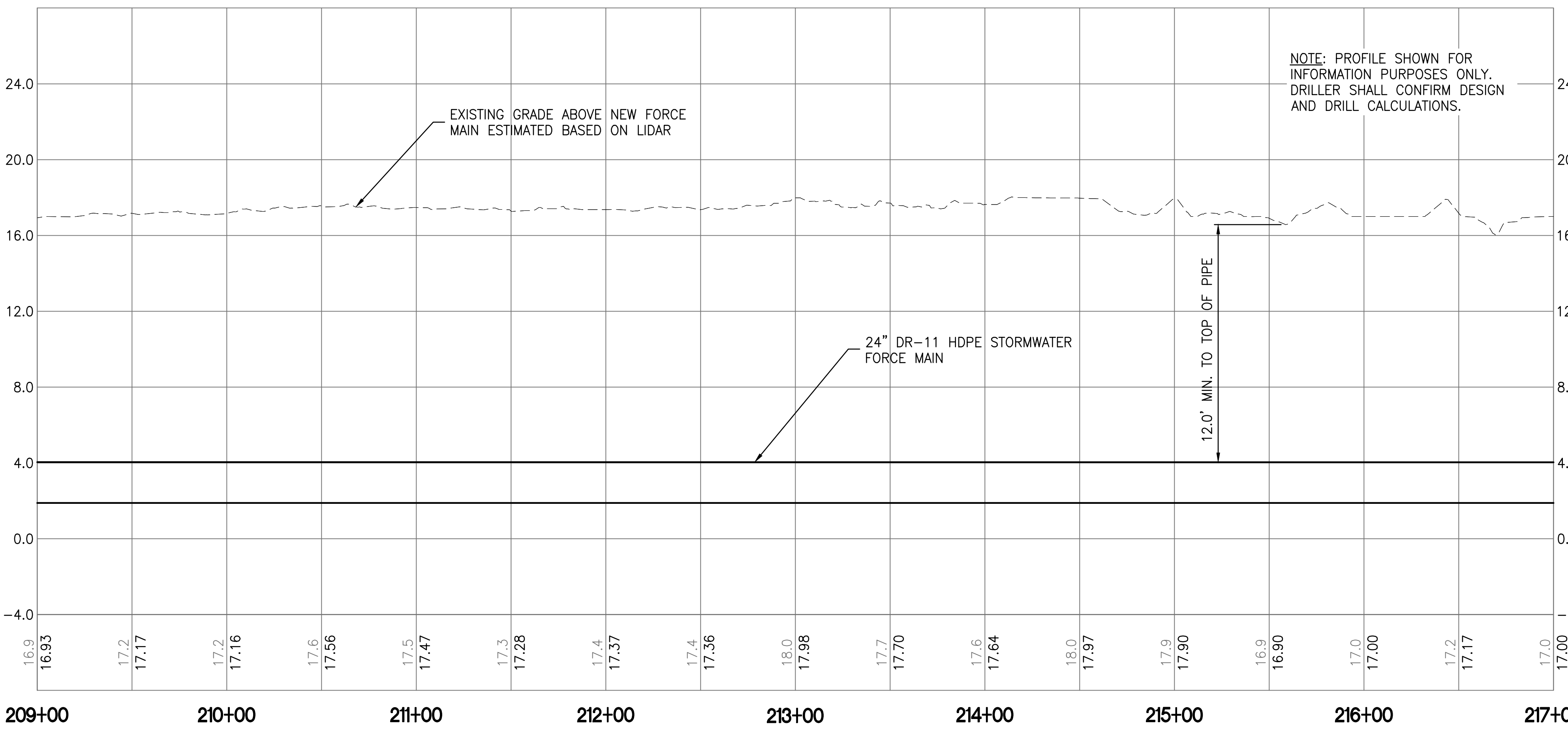
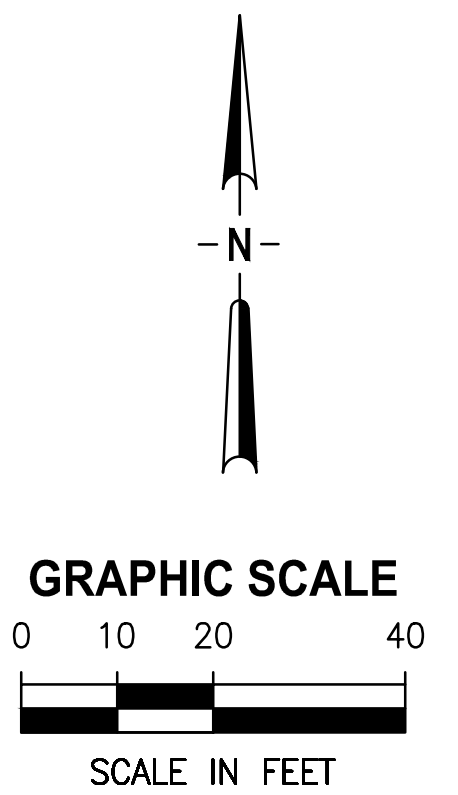
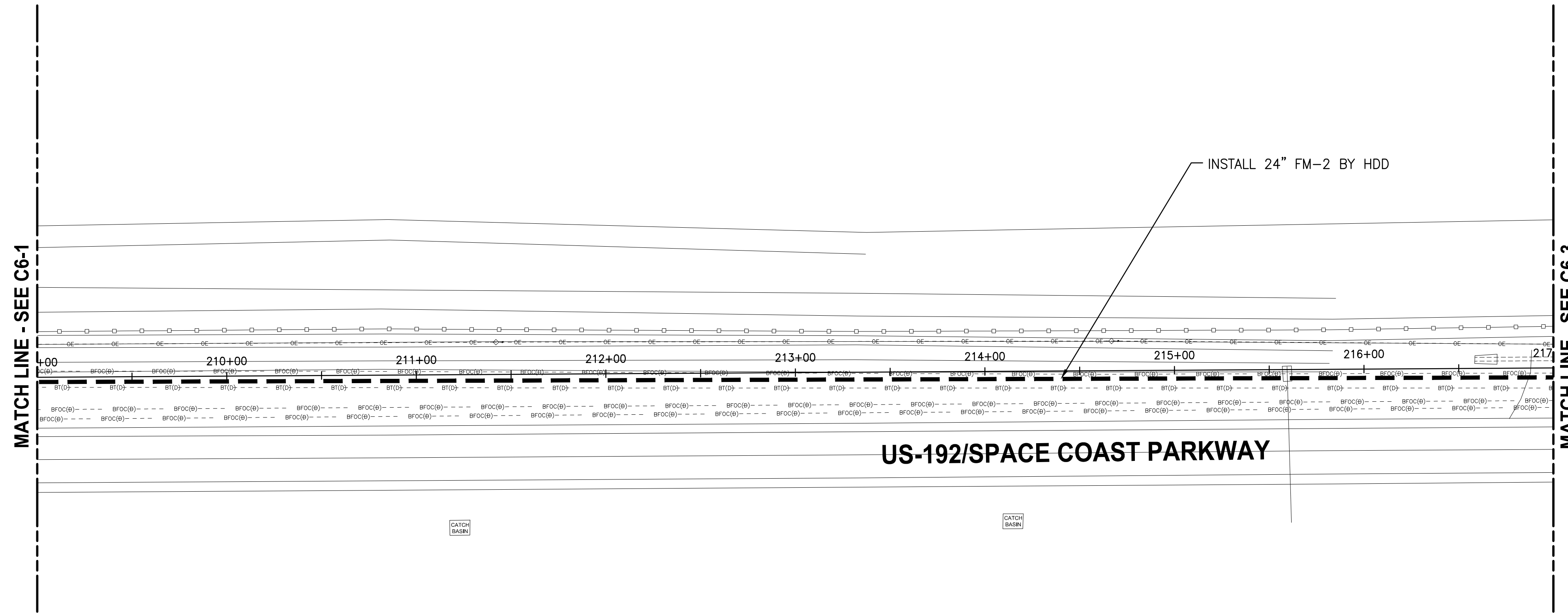
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**CRANE CREEK
 M-1 CANAL FLOW RESTORATION
 VOLUME 2**

**DISCHARGE STORMWATER FORCEMAIN
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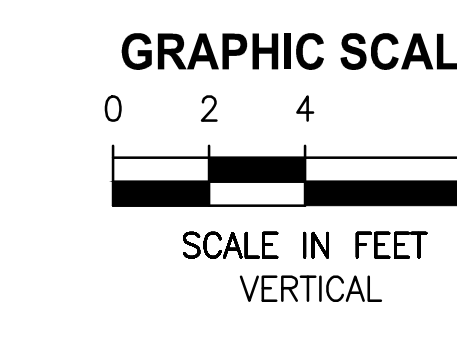
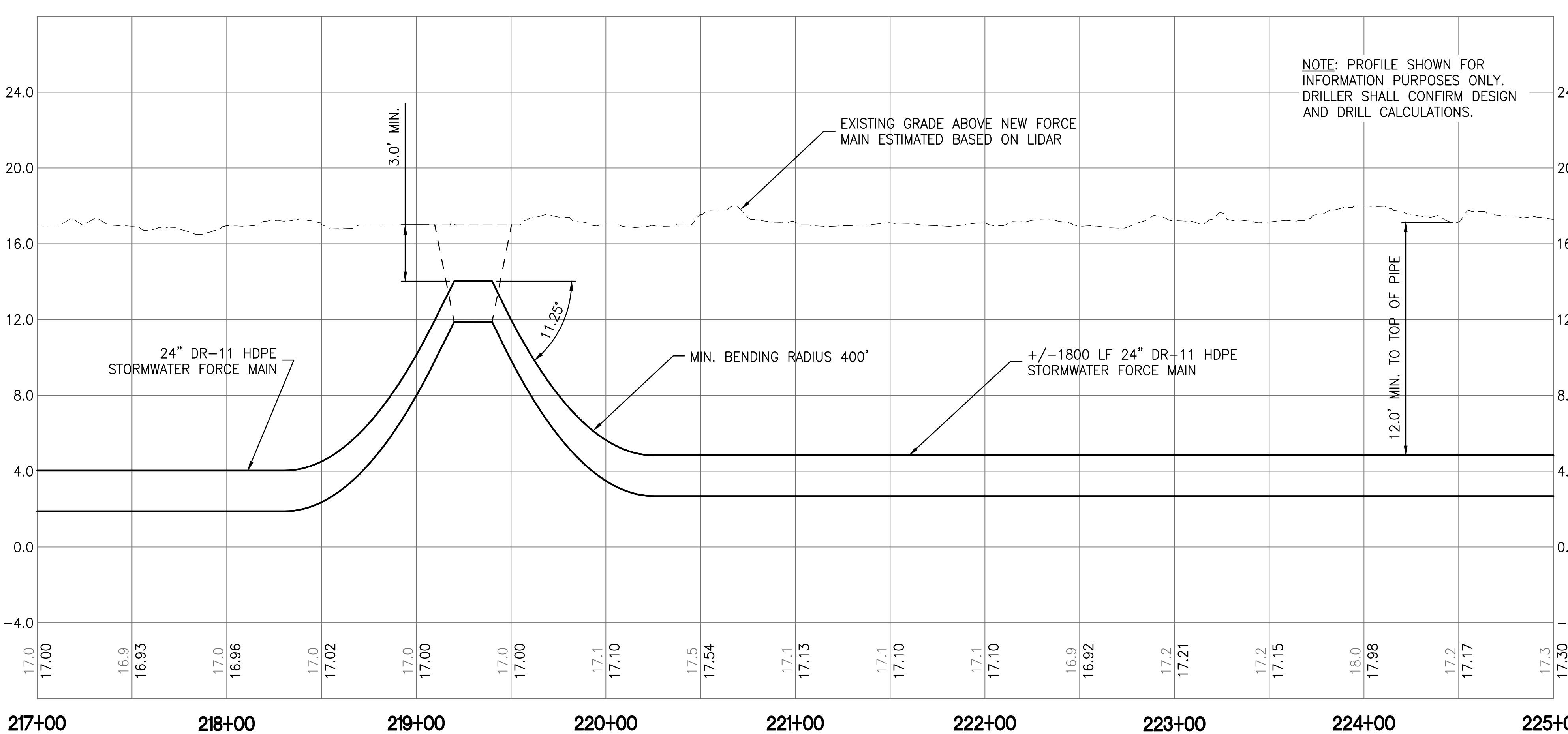
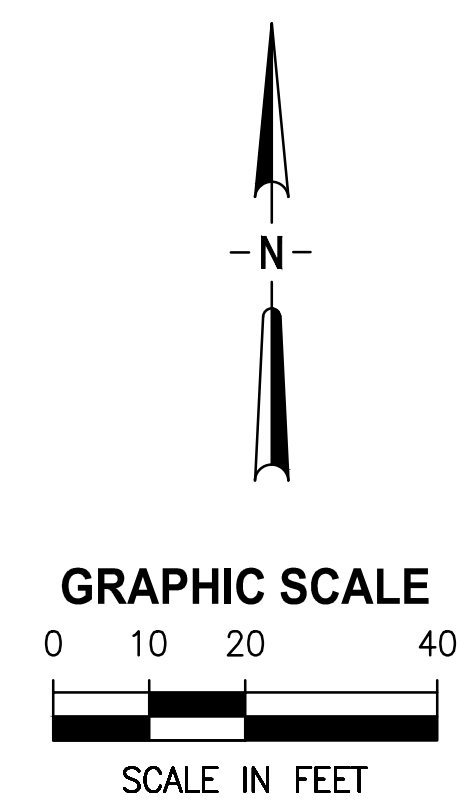
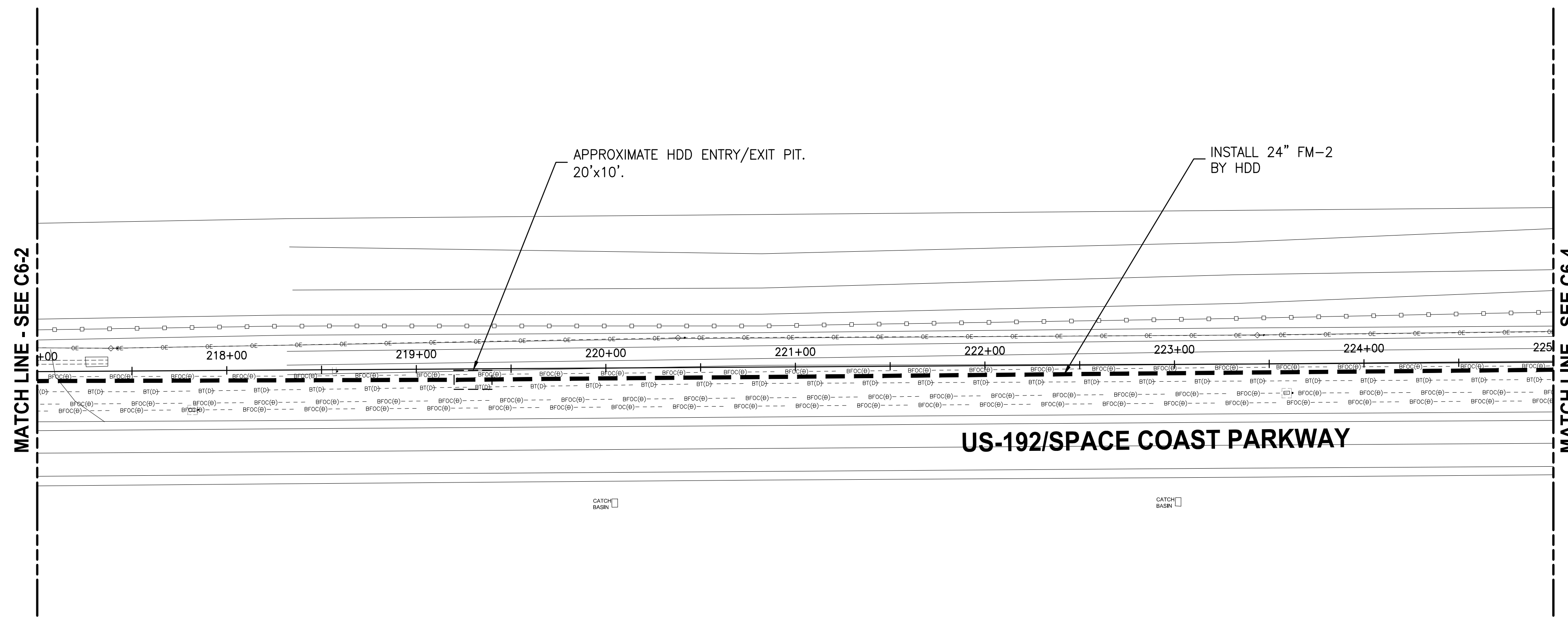
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 M-1 CANAL FLOW RESTORATION
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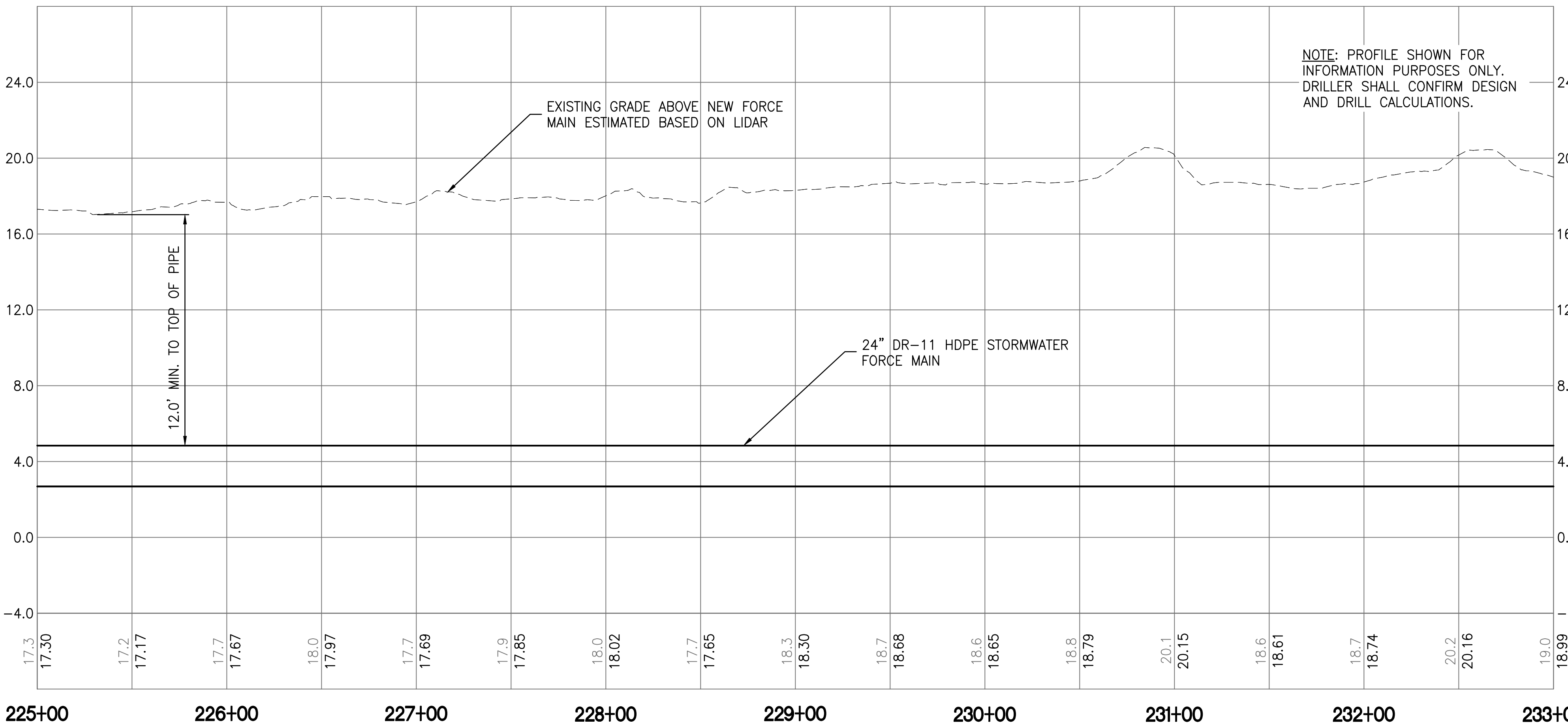
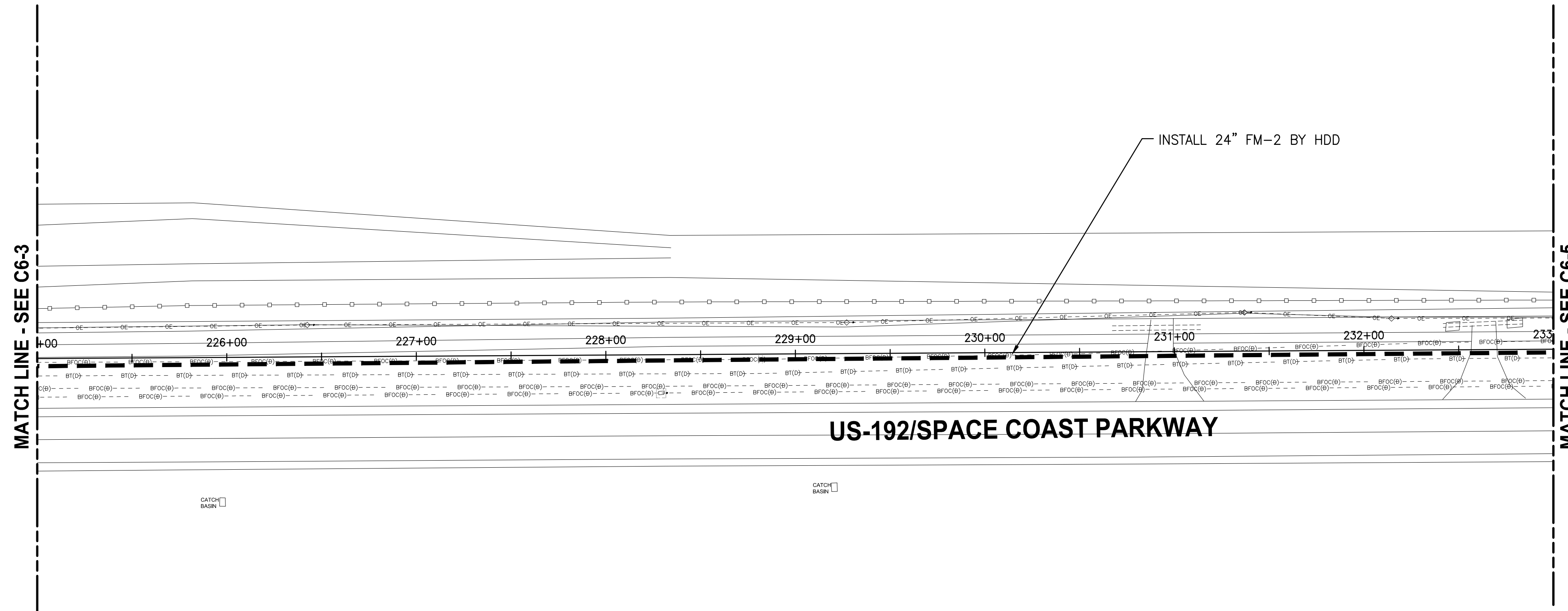
**CRANE CREEK
 M-1 CANAL FLOW RESTORATION
 VOLUME 2**

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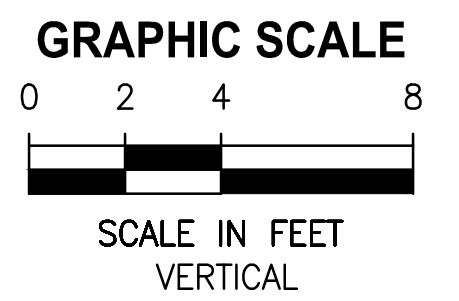
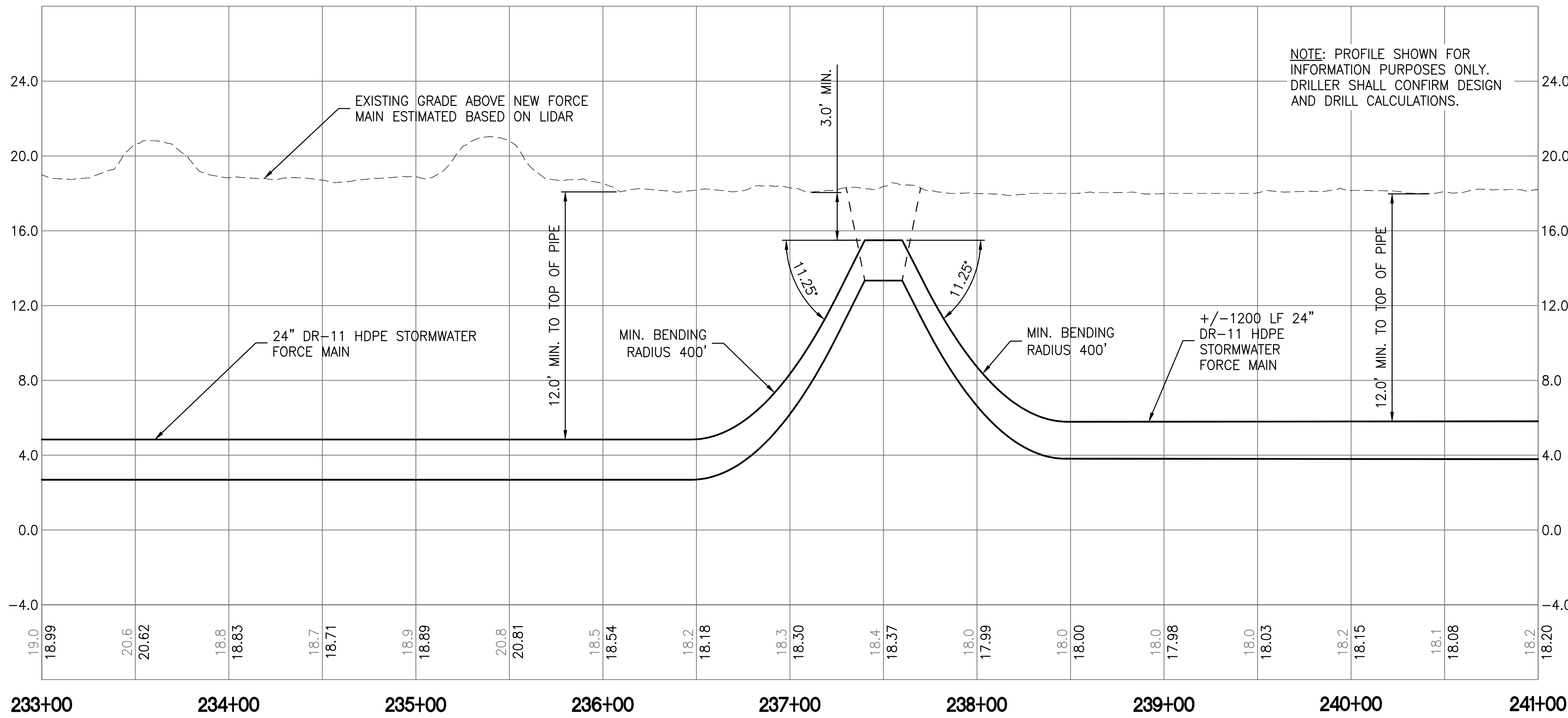
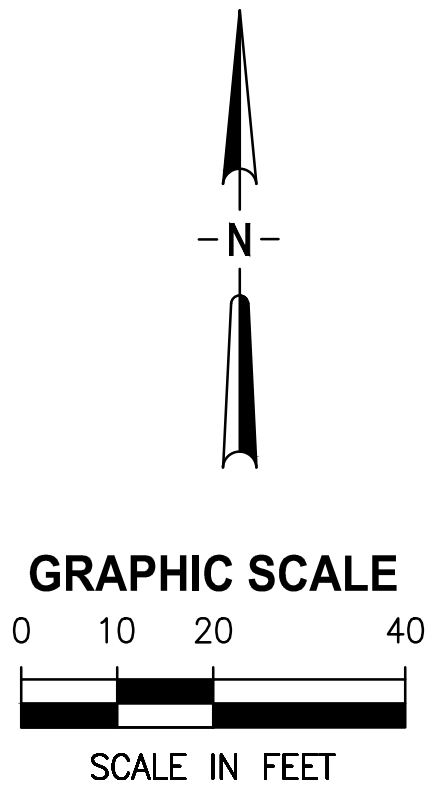
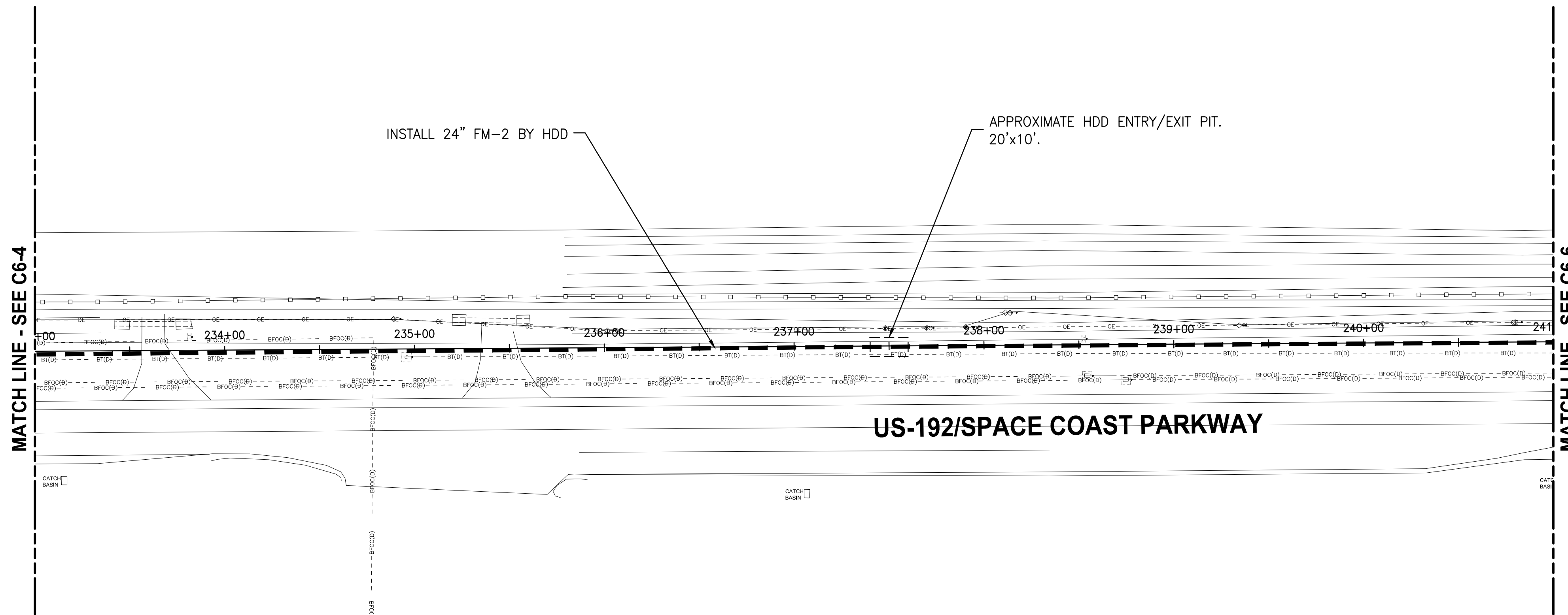
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 M-1 CANAL FLOW RESTORATION
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 M-1 CANAL FLOW RESTORATION
 VOLUME 2

DISCHARGE STORMWATER FORCEMAIN
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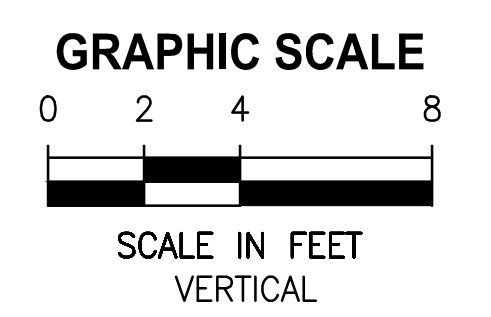
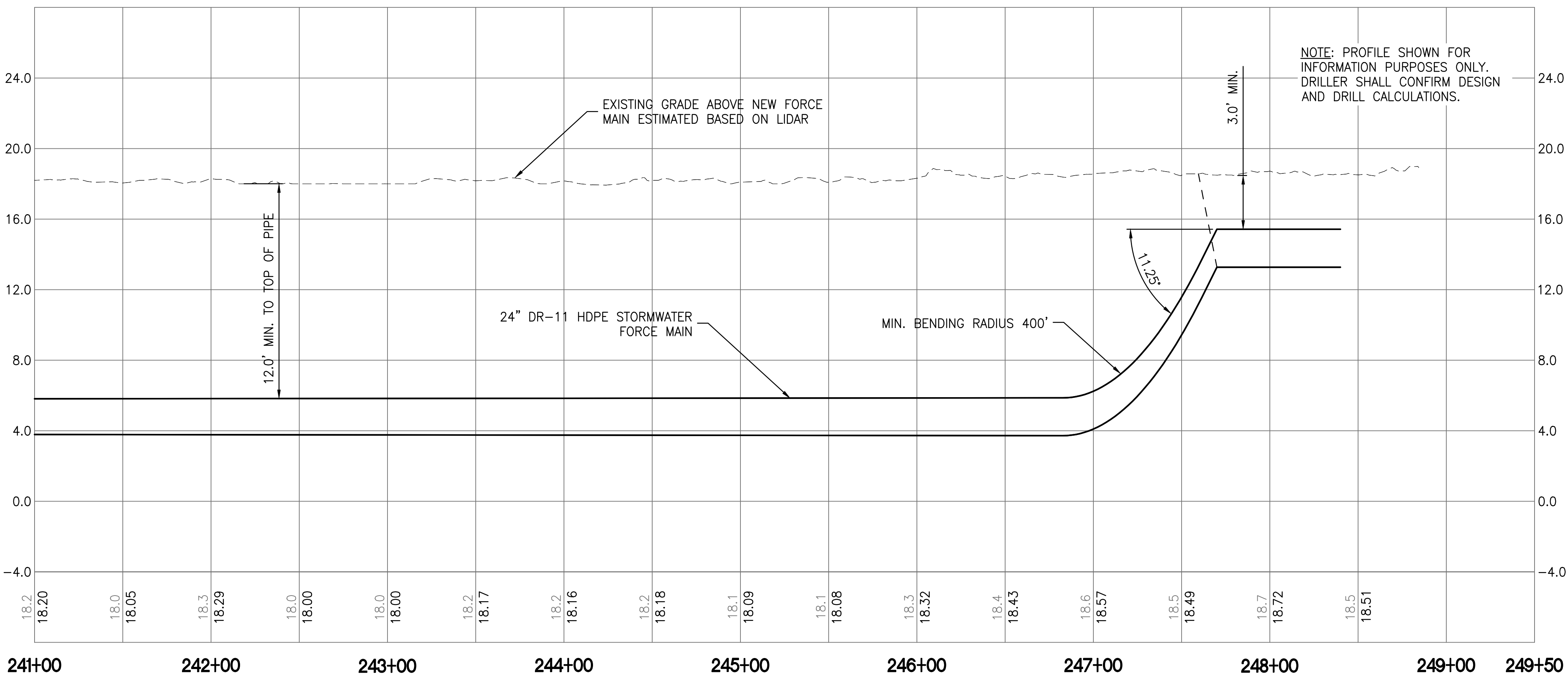
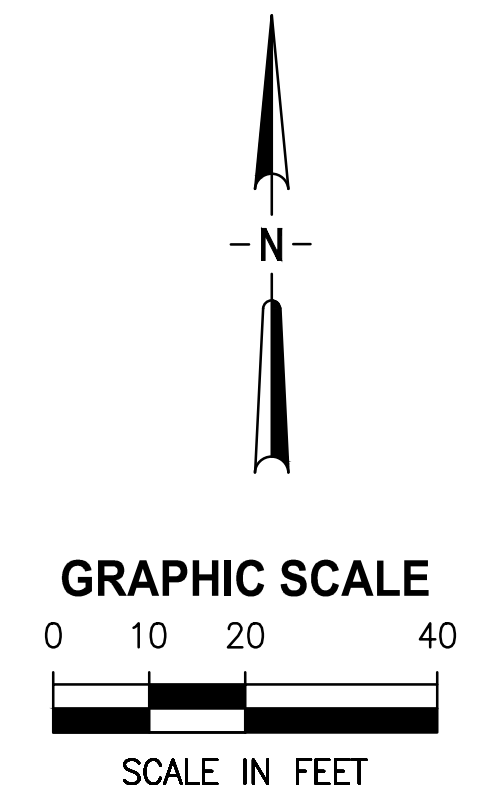
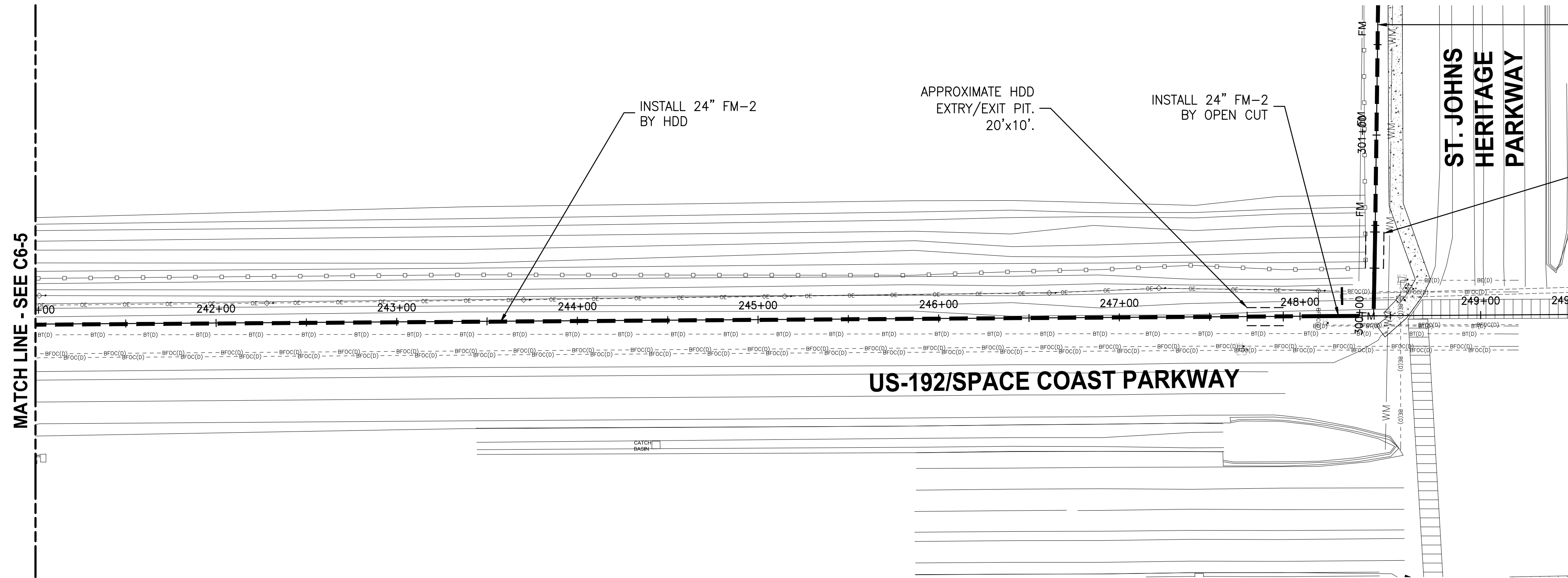
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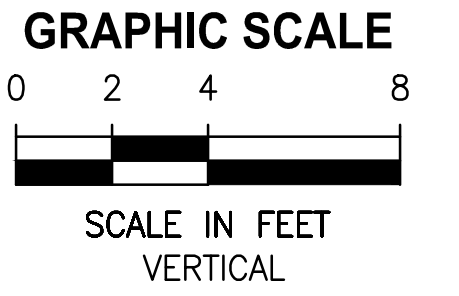
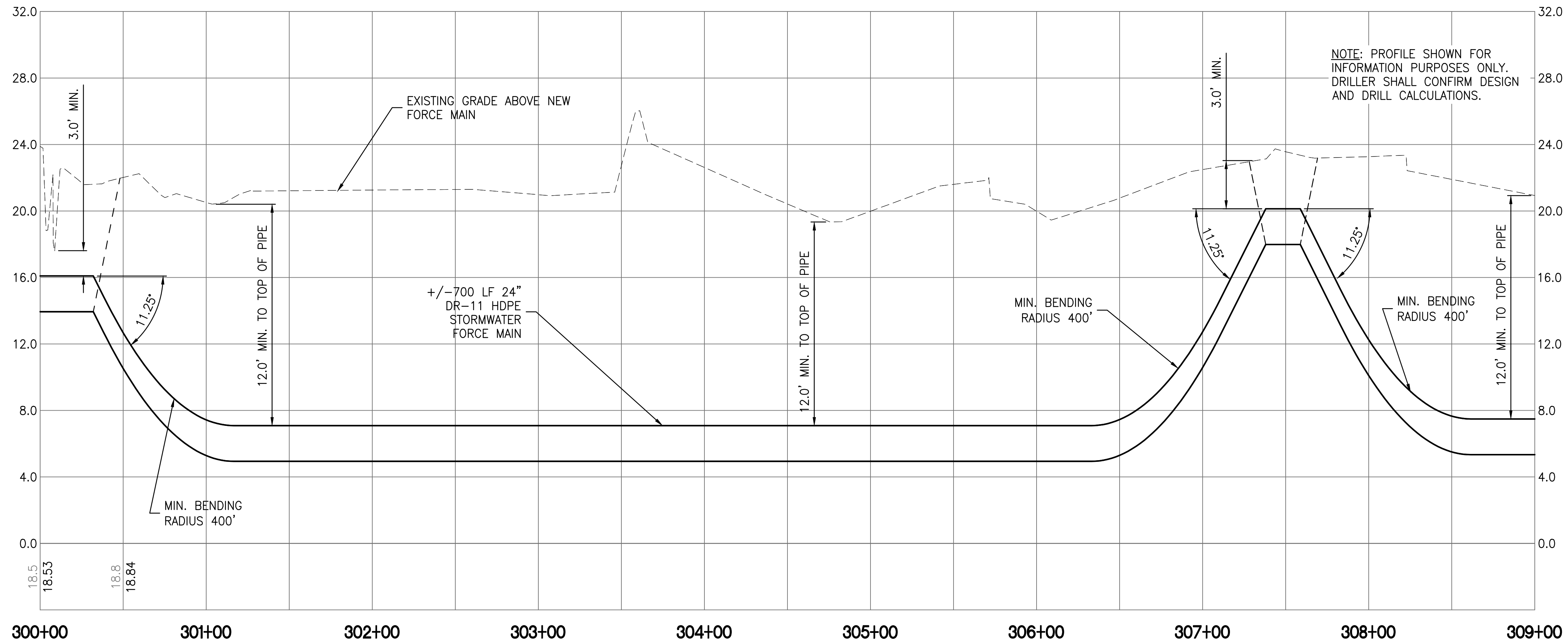
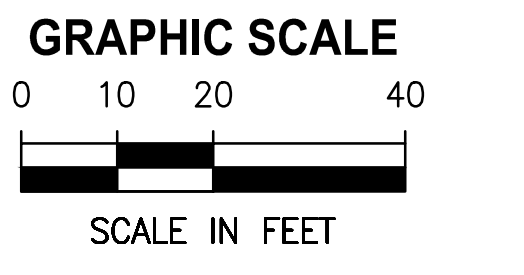
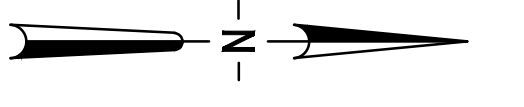
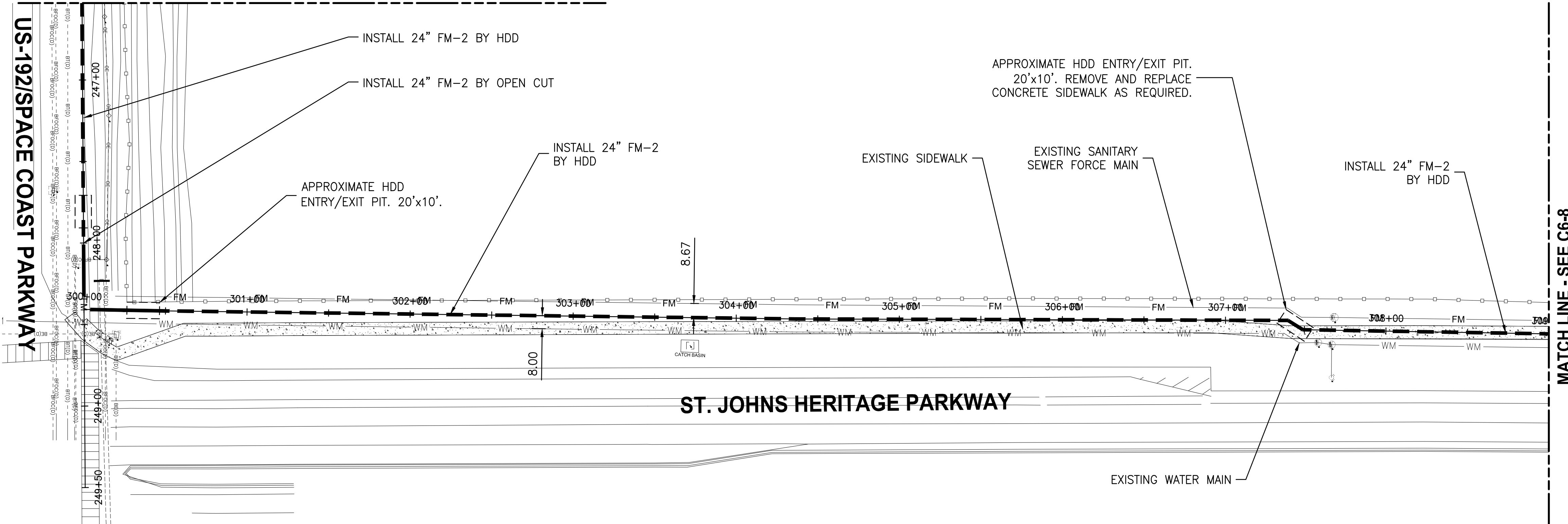
**CRANE CREEK
 M-1 CANAL FLOW RESTORATION
 VOLUME 2**

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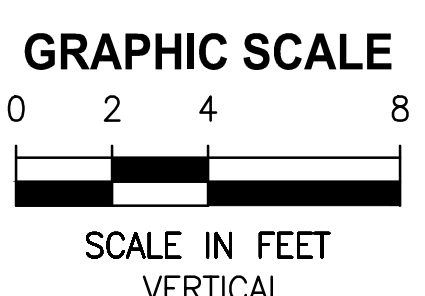
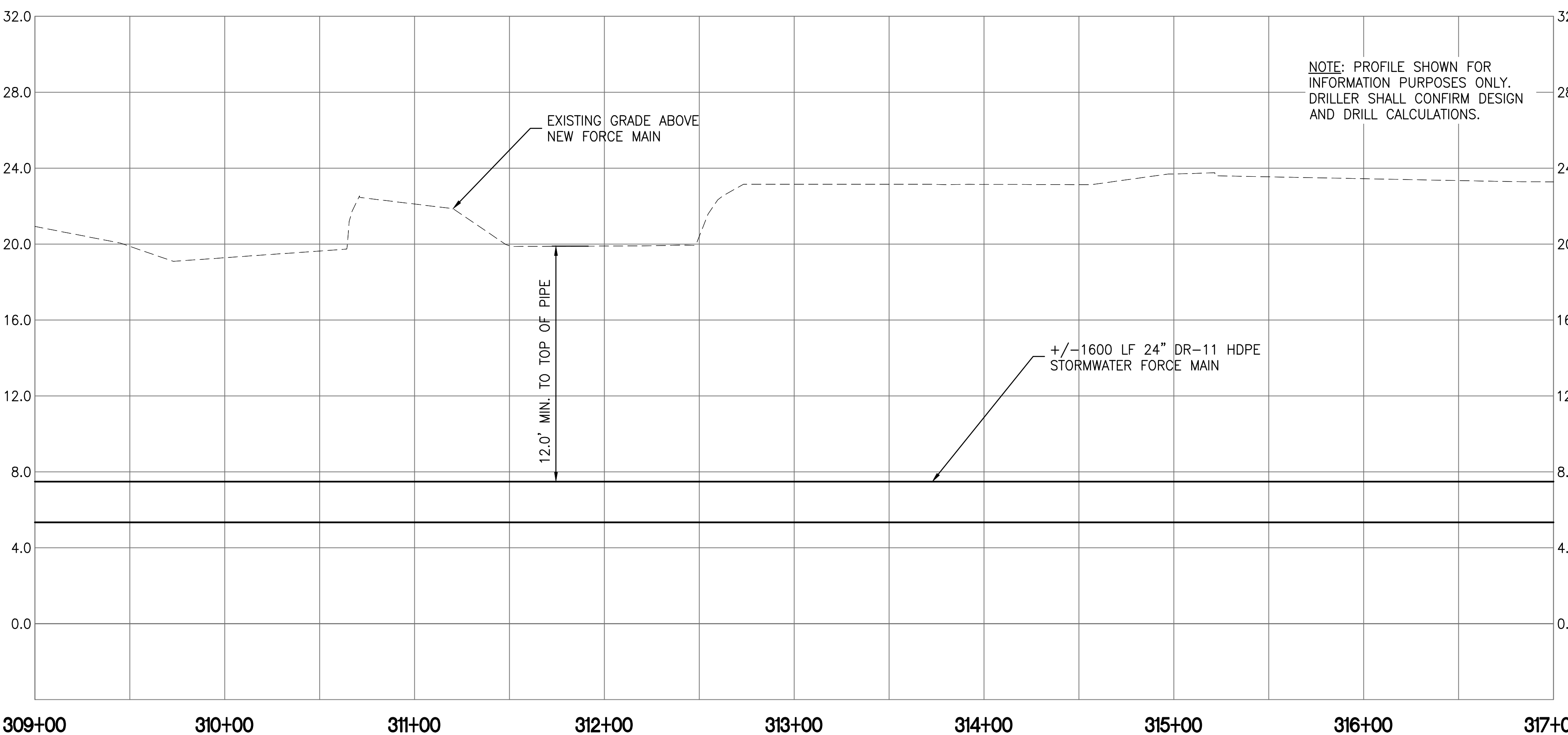
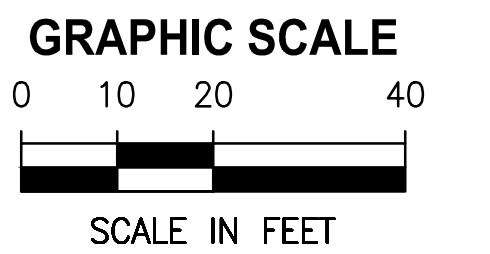
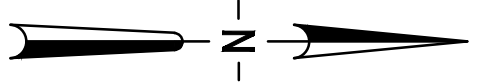
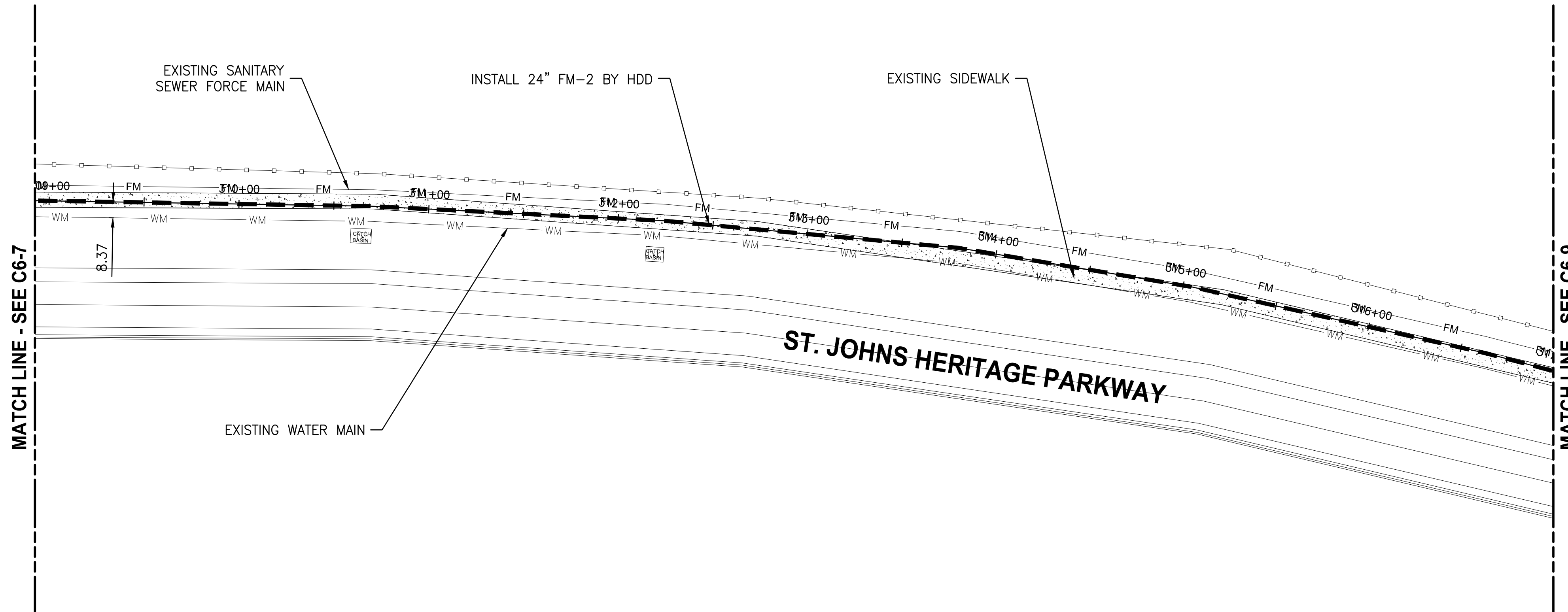
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 M-1 CANAL FLOW RESTORATION
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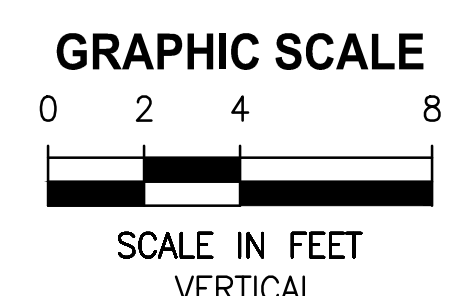
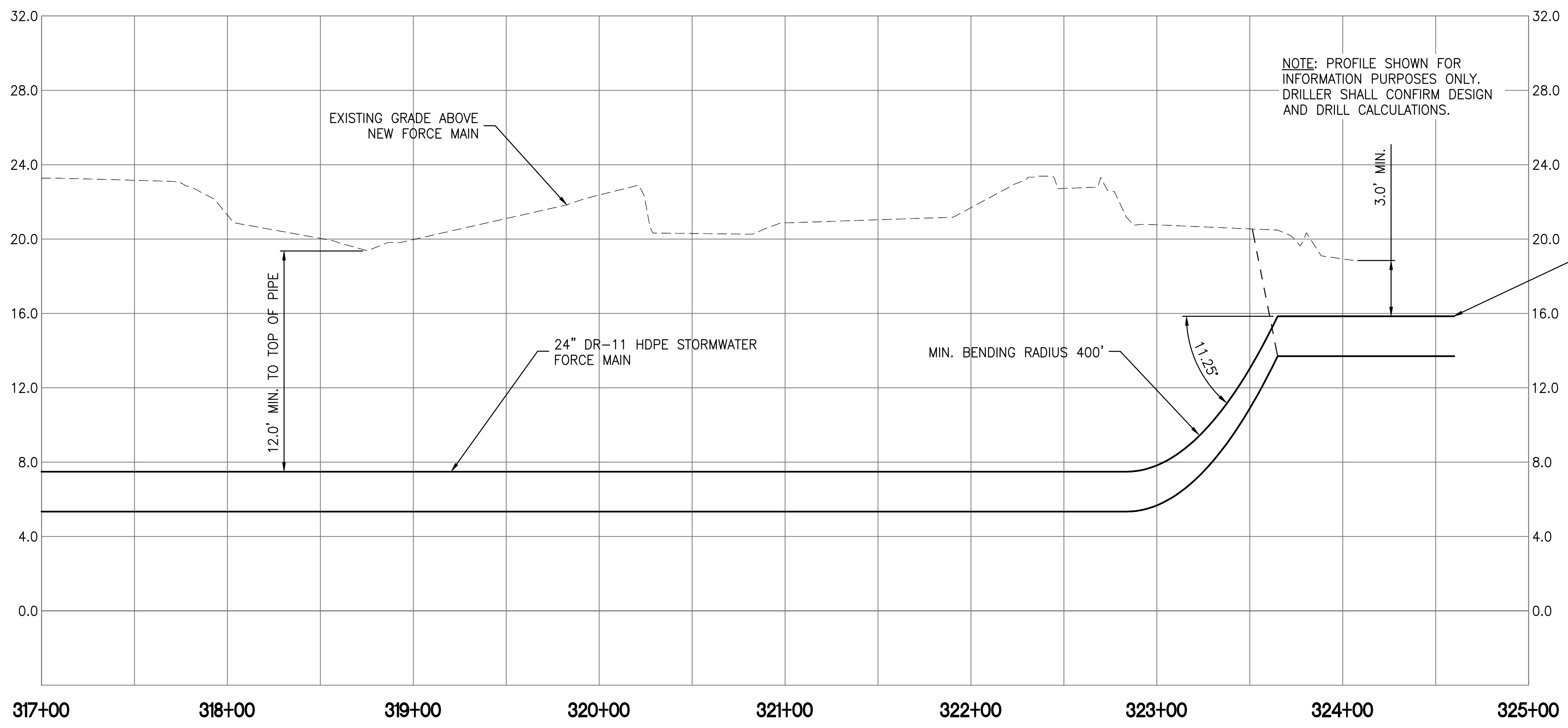
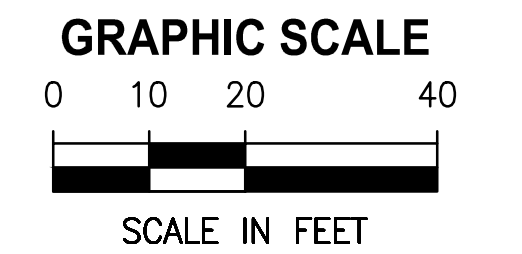
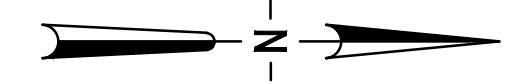
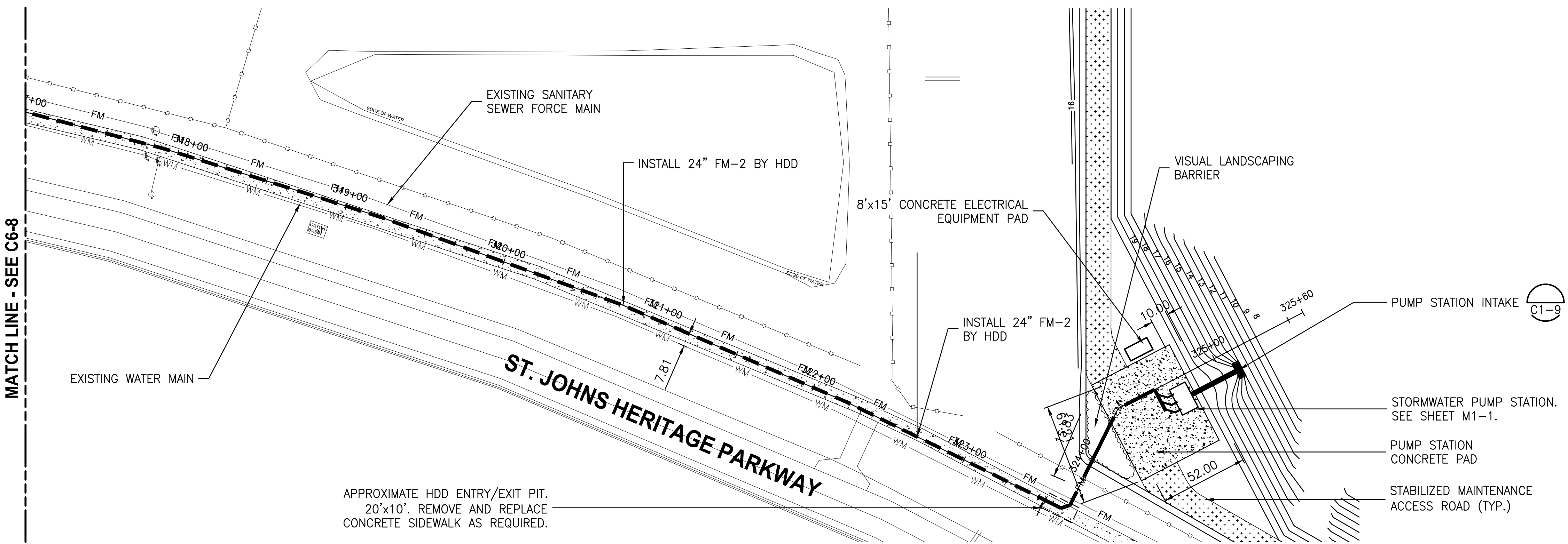
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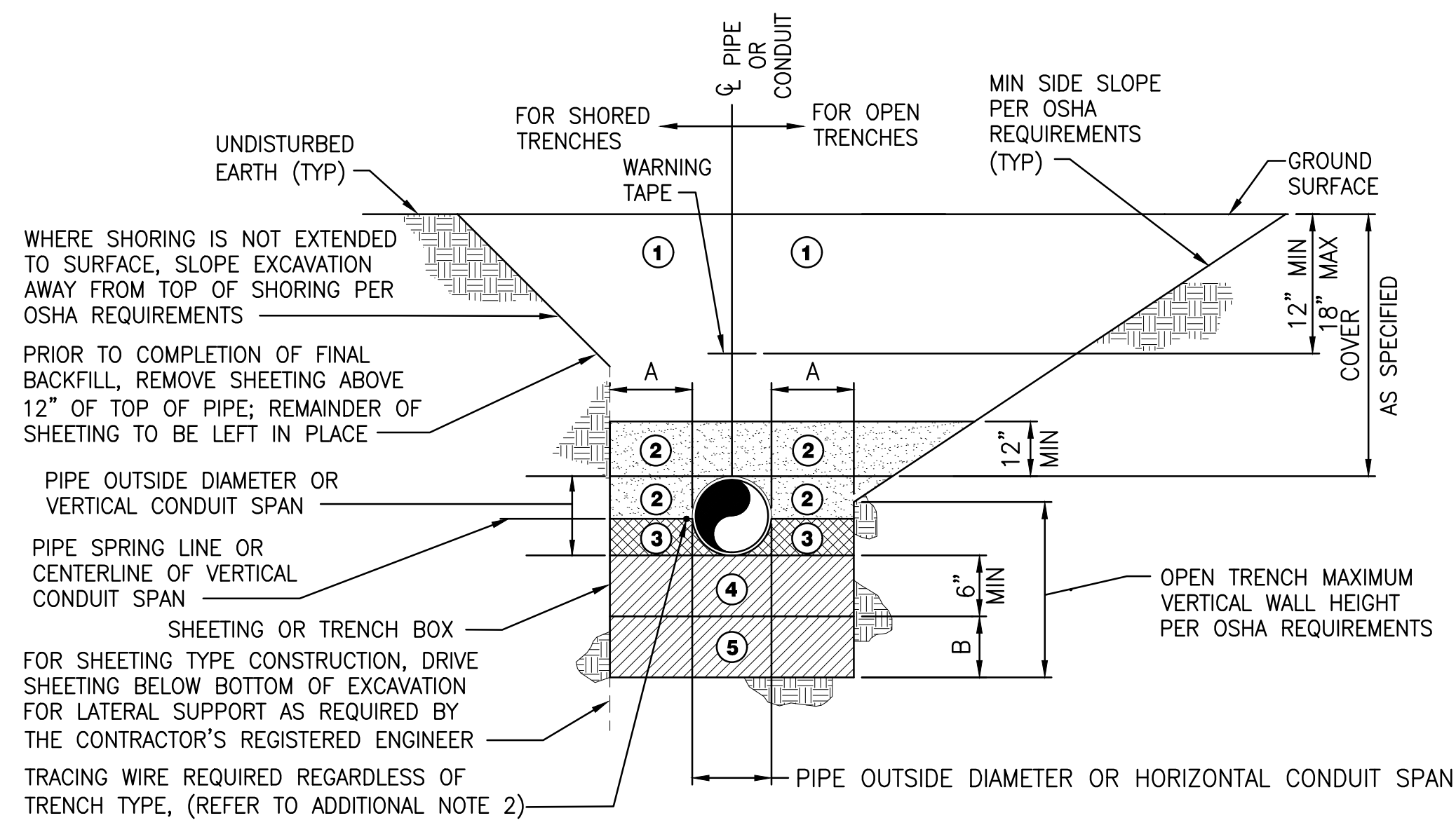
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**DISCHARGE STORMWATER FORCEMAIN
 PLAN AND PROFILE**

DONALD J. SHELDON, JR., P.E., STATE OF FLORIDA, LICENSE NUMBER 90306 THIS ITEM HAS BEEN DIGITALLY SIGNED AND SEALED BY DONALD J. SHELDON, JR. ON THE DATE INDICATED. PRINTED COPIES OF THIS DOCUMENT ARE NOT CONSIDERED SIGNED AND SEALED AND THE SIGNATURE MUST BE VERIFIED ON ANY ELECTRONIC COPIES.	PROJECT NO: 19750-066-01 INDEX NO:	DATE: JAN 2022 DWG NO: C6-9
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PLOTTED: 1/26/2022 10:38 AM JON W. ALLEN, JR.



NOMINAL PIPE DIAMETER OR HORIZONTAL CONDUIT SPAN (INCHES)	MINIMUM SIDEWALL CLEARANCE A (INCHES)	ADDITIONAL EXCAVATION DEPTH (1) B (INCHES)
LESS THAN 24	12	12
24 AND GREATER	18	18

ZONE NO.	ZONE NAME	MATERIAL	COMPACTION
1	FINAL BACKFILL	AS SPECIFIED	AT LEAST 95% MODIFIED PROCTOR MAXIMUM DRY DENSITY ASTM D-1557 (98% WHEN UNDER PAVEMENT)
2	INITIAL BACKFILL		
3	HAUNCHING		
4	BEDDING		
5	FOUNDATION		

(1) REQUIRED WHERE UNSUITABLE MATERIAL IS ENCOUNTERED.

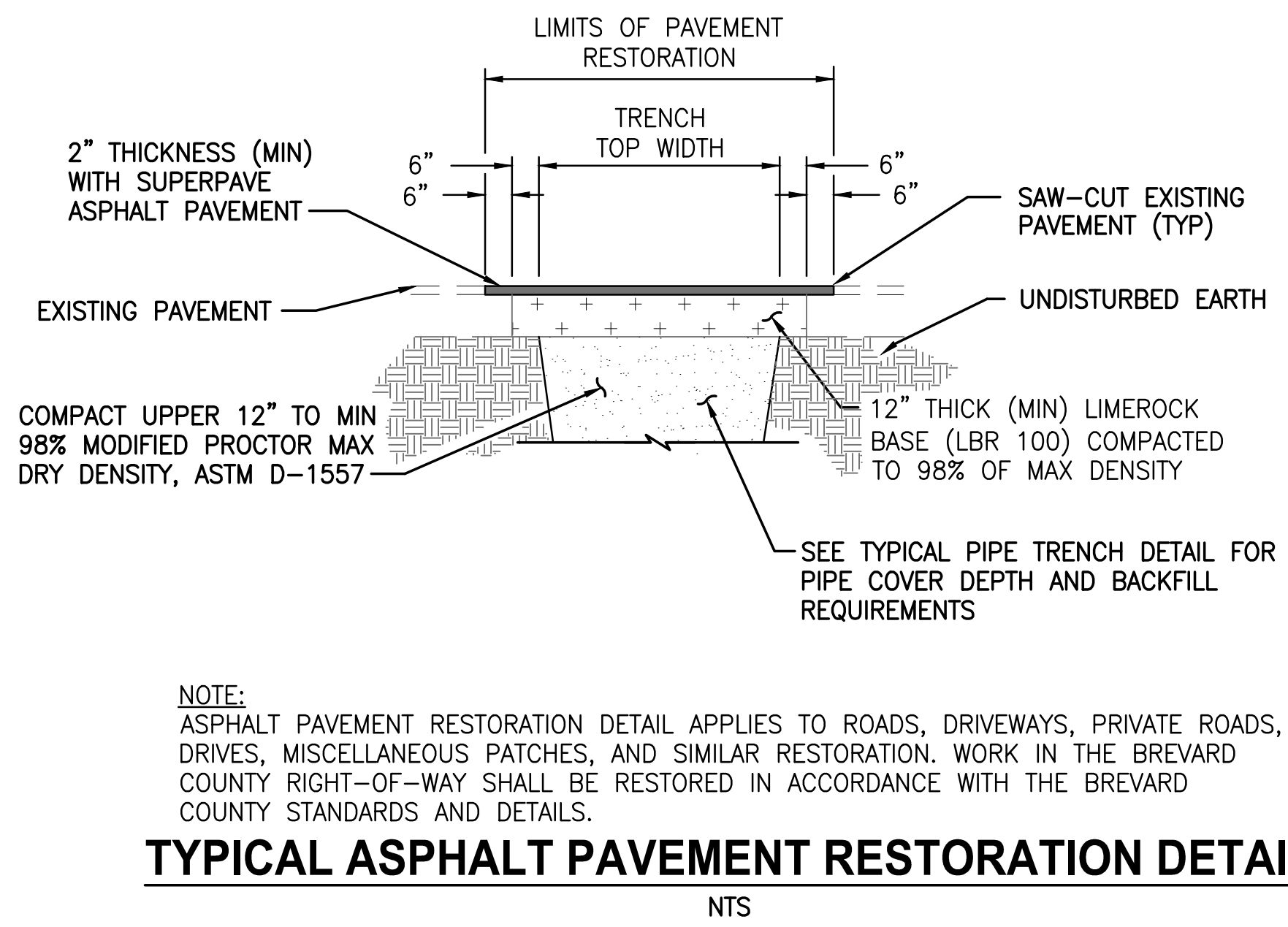
TRENCH ZONE NOTES:

- FINAL BACKFILL SHALL BE INSTALLED IN LIFTS NOT EXCEEDING 6 INCHES, LOOSE MEASUREMENT. REFER TO ADDITIONAL NOTE 3.
 - INITIAL BACKFILL SHALL BE INSTALLED IN LIFTS NOT EXCEEDING 6 INCHES, LOOSE MEASUREMENT. ALL LIFTS SHALL BE COMPACTED BY HAND TAMPING OR AN APPROVED METHOD OF MECHANICAL TAMPING. REFER TO ADDITIONAL NOTE 3.
 - HAUNCHING SHALL BE IN COMPLETELY DEWATERED TRENCHES IN LIFTS NOT EXCEEDING 6 INCHES, LOOSE MEASUREMENT. ALL LIFTS SHALL BE COMPACTED BY HAND TAMPING. HAUNCHING SHALL BE BROUGHT UP EQUALLY ON BOTH SIDES OF THE PIPE.
 - BEDDING SHALL BE INSTALLED IN COMPLETELY DEWATERED TRENCHES IN LIFTS NOT EXCEEDING 6 INCHES, LOOSE MEASUREMENT, AND SHALL BE COMPACTED BY HAND OR MECHANICAL TAMPING. PROPERLY SHAPED BELL HOLES SHALL BE EXCAVATED IN THE BEDDING TO PERMIT ASSEMBLY OF THE PIPE. REFER TO ADDITIONAL NOTE 3.
- NATIVE, UNDISTURBED MATERIAL IN COMPLETELY DEWATERED TRENCHES MEETING THE COMPACTION AND MATERIAL REQUIREMENTS FOR COMPACTED BEDDING MATERIAL NEED NOT BE REPLACED OR REWORKED, EXCEPT FOR SHAPING OF THE BELL HOLES, AND WHERE REFILL IS REQUIRED.
- FOUNDATION SHALL BE REQUIRED WHERE UNSUITABLE MATERIAL IS ENCOUNTERED. FOUNDATION SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS FOR BEDDING. REFER TO ADDITIONAL NOTE 3.

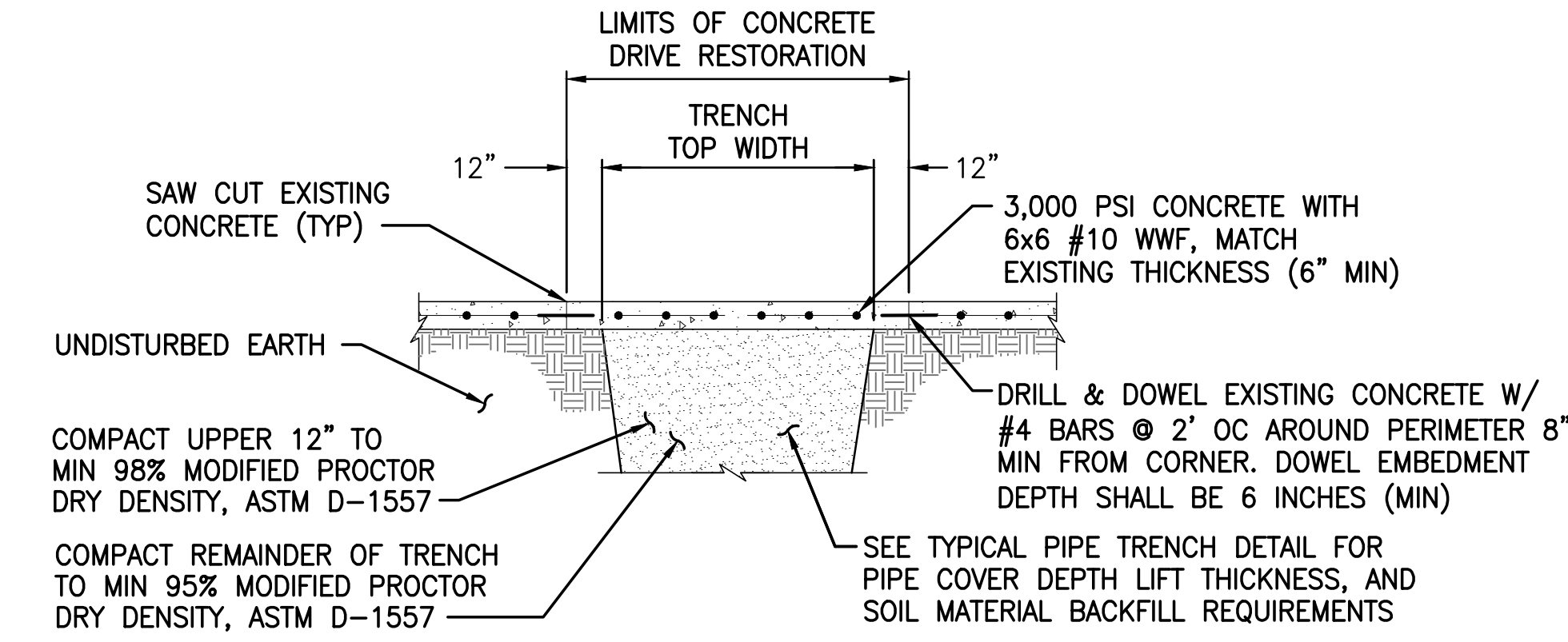
ADDITIONAL NOTES:

- FOR TRENCHES IN VEHICULAR TRAFFIC AREAS OR BENEATH SURFACE IMPROVEMENTS (EG, SLABS, ASPHALT, ETC.) SEE CONTRACT SPECIFICATIONS FOR ADDITIONAL COMPACTION REQUIREMENTS. SEE DRAWINGS FOR SURFACE IMPROVEMENT AND /OR RESTORATION DETAILS WHERE APPLICABLE.
- TRACING WIRE SHALL BE INSTALLED ON THE SIDE OF THE PIPE AND ATTACHED TO THE PIPE EVERY 10' W/ A NYLON WIRE TIE. IF THE WIRE IS DAMAGED OR NEEDS TO BE EXTENDED A 3M WATERPROOF TYPE UF SPLICE SHALL BE INSTALLED TO REPAIR THE WIRE. THE ENDS OF THE TRACING WIRE SHALL BE BROUGHT UP IN EVERY VALVE BOX ON THE LINE AND AT THE HYDRANT VALVES. THERE SHALL BE A MINIMUM COIL OF 3' LEFT UNDER THE VALVE BOX COVER. THE WIRE SHALL BE TESTED TO VERIFY CONDUCTIVITY.
- ALTERNATIVE LIFT THICKNESSES, NOT EXCEEDING 12 INCHES LOOSE MEASUREMENT, ARE ACCEPTABLE IN TRENCH ZONES 1, 2, 4, AND 5 PROVIDED 1) THE LIFT THICKNESS DOES NOT EXCEED THE MAXIMUM VALUE RECOMMENDED IN WRITING BY THE APPLICABLE PIPE MANUFACTURER AND 2) FIELD TEST RESULTS CONFIRM THAT THE SPECIFIED COMPACTION REQUIREMENTS ARE BEING MET.

TYPICAL UTILITY TRENCH DETAIL
NTS

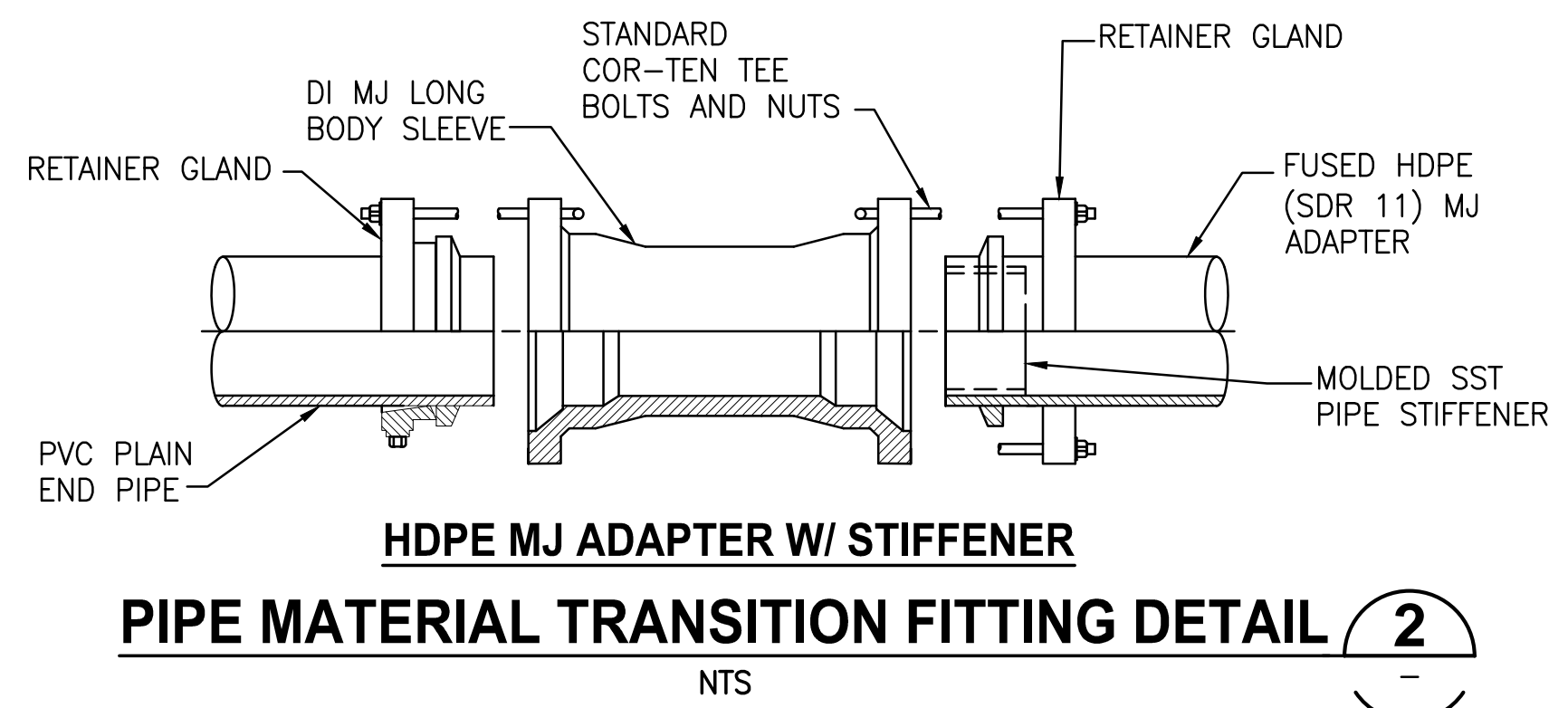


TYPICAL ASPHALT PAVEMENT RESTORATION DETAIL
NTS

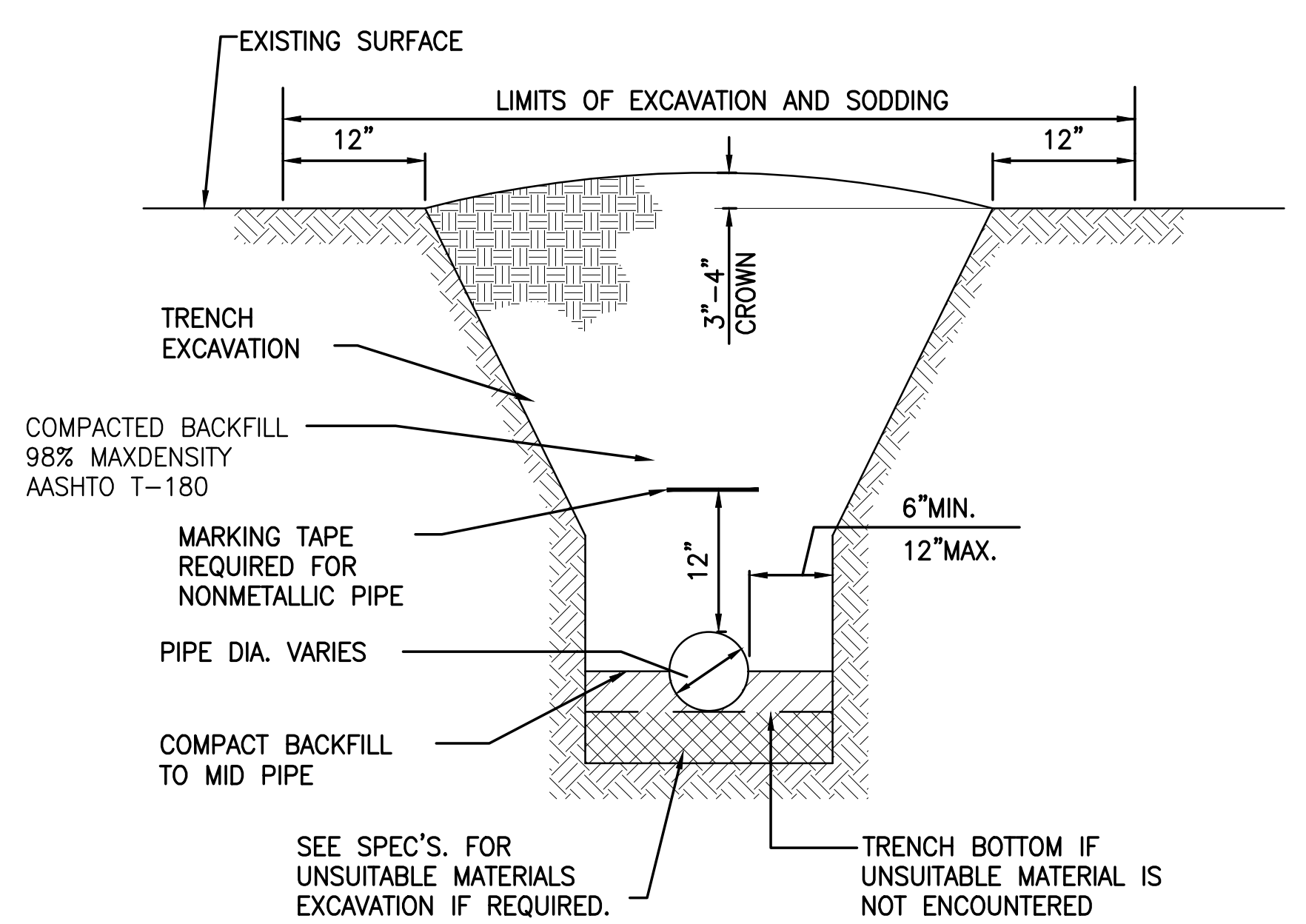


- NOTES:**
- DRILL AND DOWEL 1 LOCATION EACH SIDE FOR CURB REPAIR.
 - MATCH EXISTING GRADE AND FINISH.

TYPICAL CONCRETE DRIVEWAY RESTORATION DETAIL
NTS



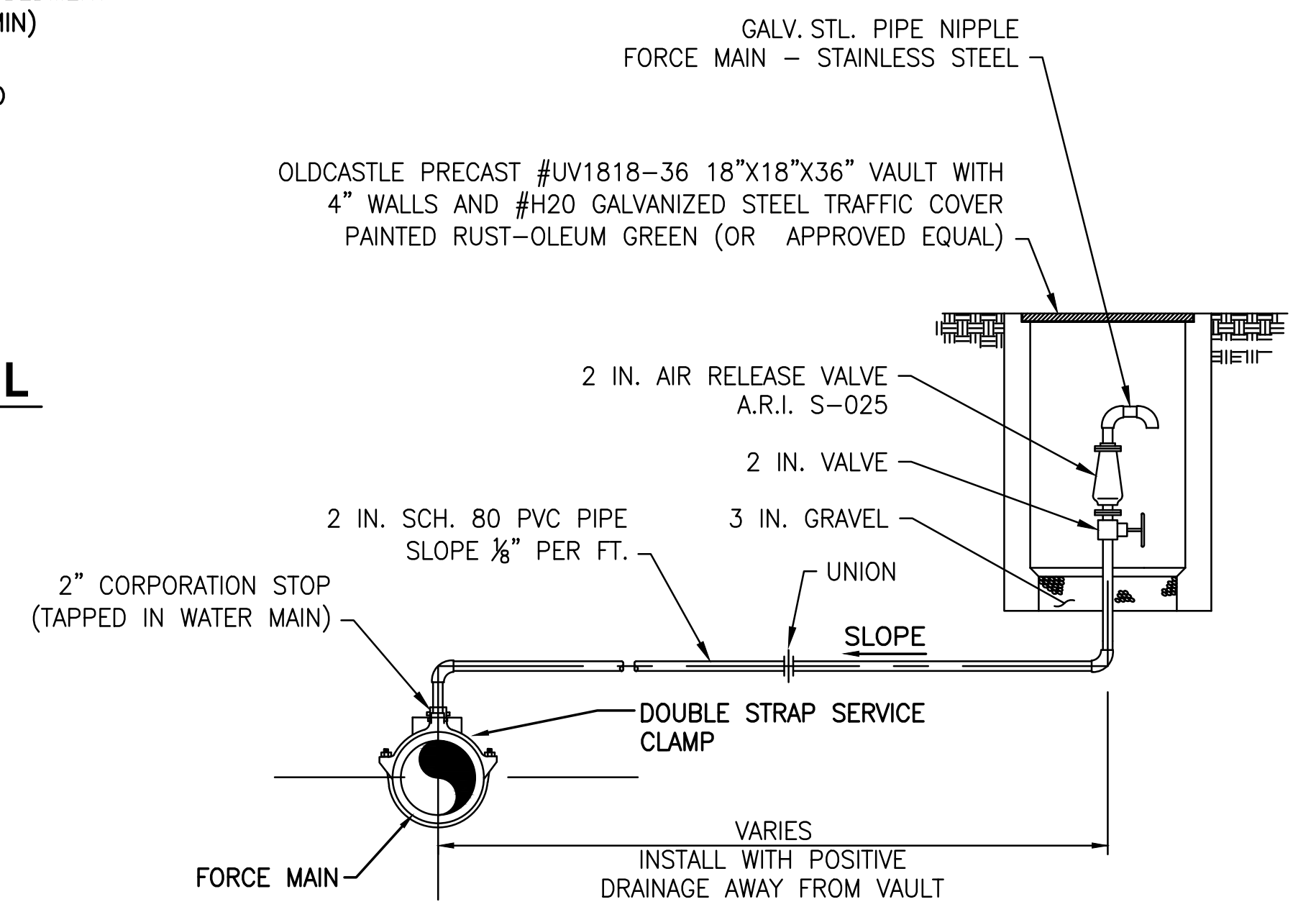
HDPE MJ ADAPTER W/ STIFFENER PIPE MATERIAL TRANSITION FITTING DETAIL
NTS



NOTES:

- DEWATERING SHALL CONTINUE UNTIL BACKFILL IS COMPACTED AT LEAST 2 FEET ABOVE PIPE.
- SURFACE TREATED PAVEMENT JOINTS SHALL BE LAPPED AND FEATHERED.
- CONTRACTOR SHALL SLOPE TRENCH IN ACCORDANCE WITH OSHA STANDARDS SHOW IN ABOVE TABLE B-1.

TYPICAL TRENCH IN UNPAVED AREAS DETAIL
NTS



OFFSET AIR RELEASE VALVE DETAIL
NTS

LTR.	DATE	REVISIONS	BY	APPRD.

DESIGNED	A GOODDEN
DRAWN	J ALLEN
CHECKED	R KOLLER

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CRANE CREEK M-1 CANAL FLOW RESTORATION VOLUME 2

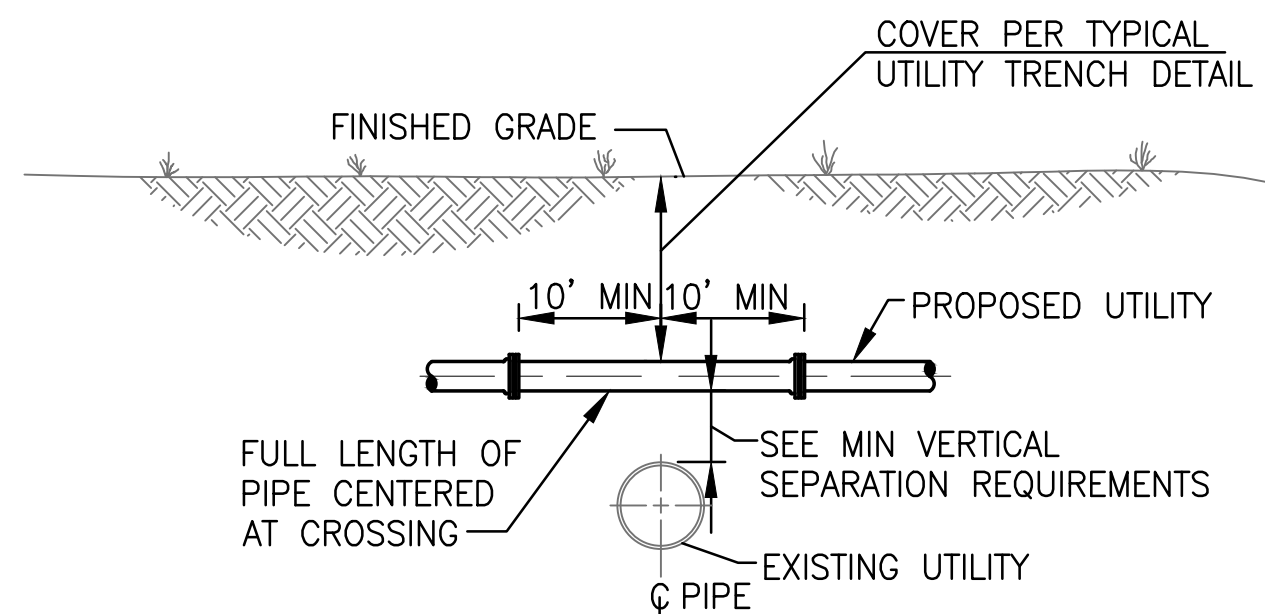
DISCHARGE STORMWATER FORCEMAIN PLAN AND PROFILE

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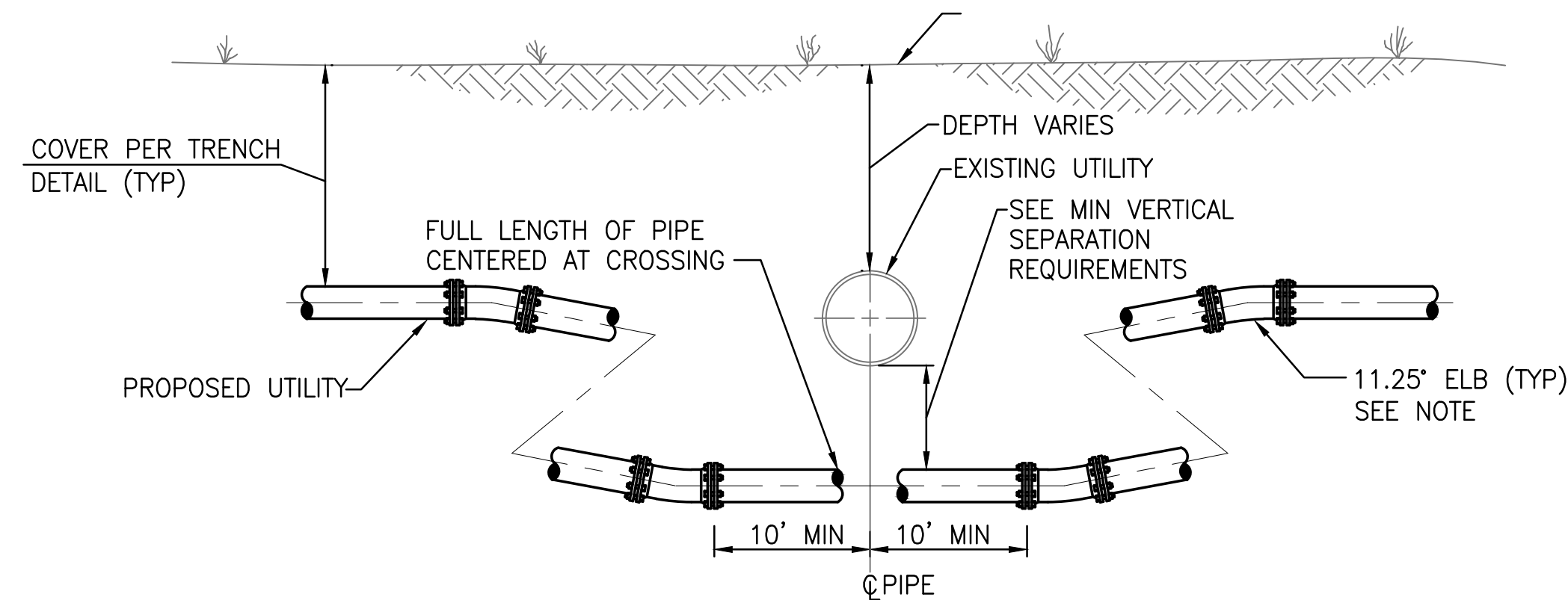
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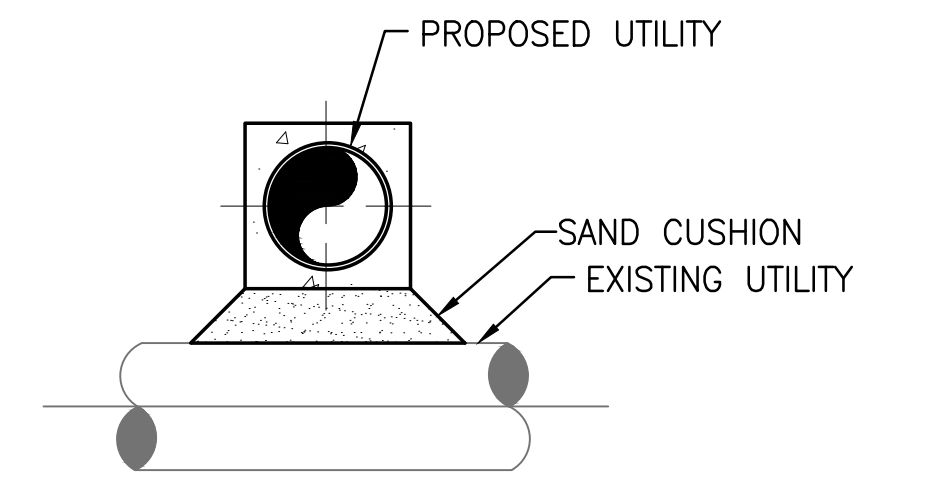
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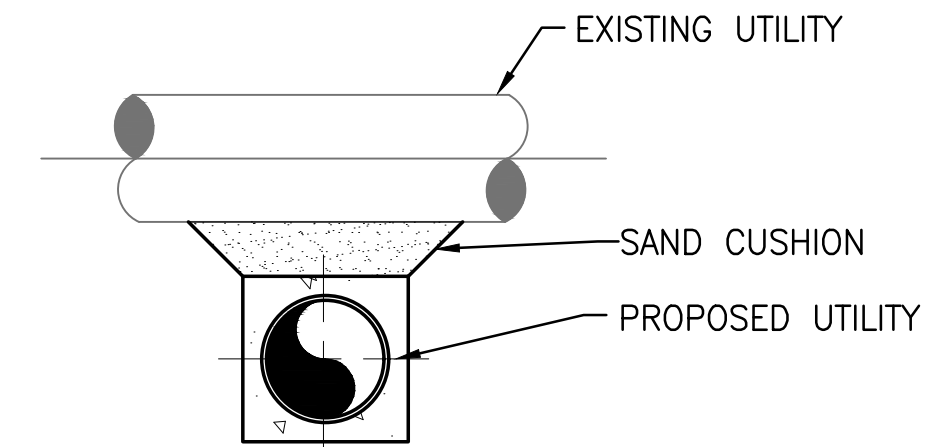
OPTION 1 (SUFFICIENT COVER AND SEPARATION AVAILABLE)



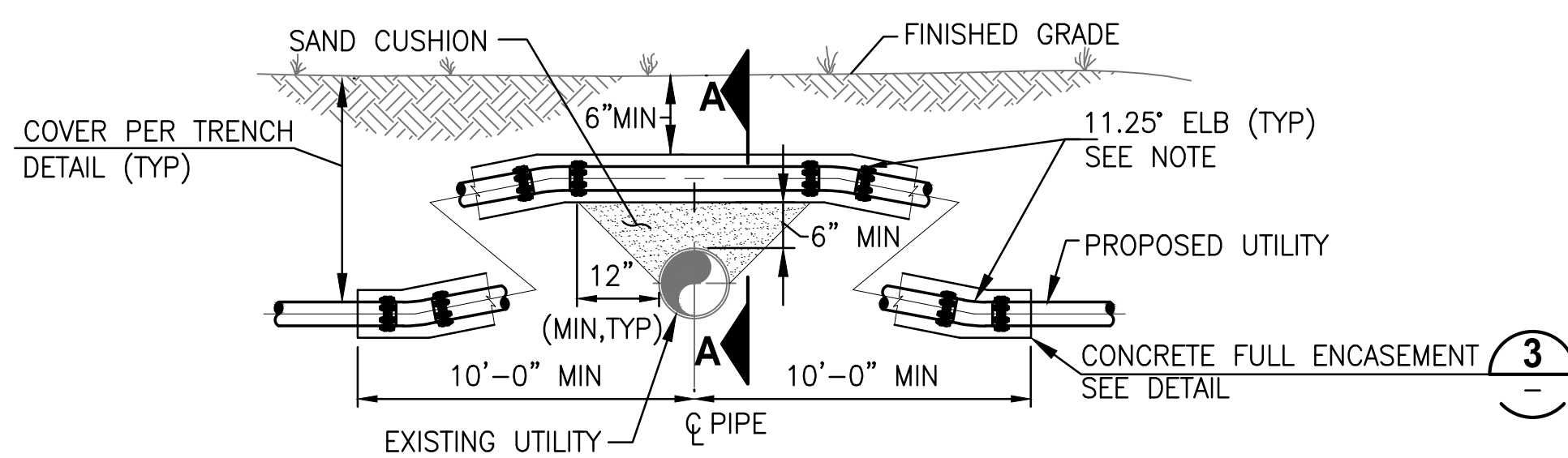
OPTION 2 (SUFFICIENT SEPARATION AVAILABLE)



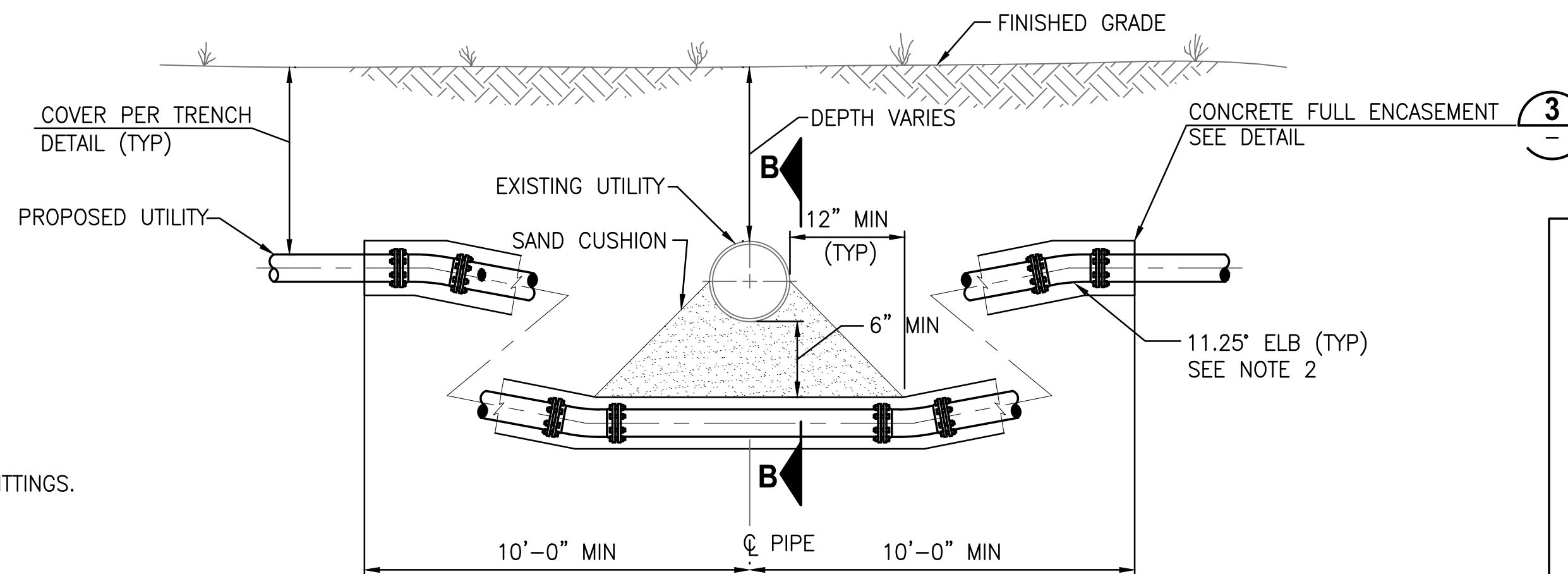
SECTION A-A



SECTION B-B

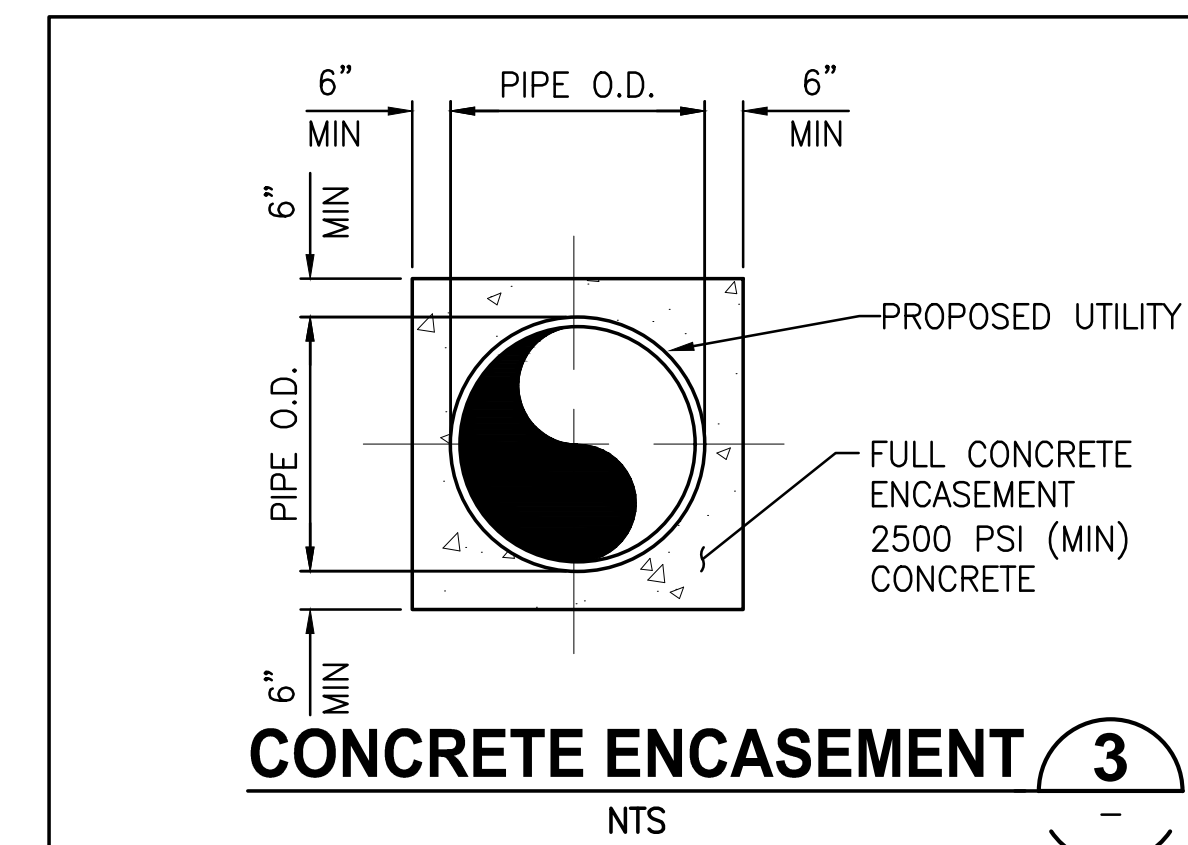


ALTERNATE OPTION 1 (SUFFICIENT COVER OR SEPARATION NOT AVAILABLE)



- NOTES:**
- FOR PROPOSED WATER MAINS, THIS OPTION IS ONLY ALLOWED WITH APPROVAL OF THE ENGINEER AND FDEP ON A CASE BY CASE BASIS.
 - WITH APPROVAL OF ENGINEER, CONTRACTOR MAY DEFLECT PIPE AS SPECIFIED INSTEAD OF USING FITTINGS.

ALTERNATE OPTION 2 (SUFFICIENT SEPARATION NOT AVAILABLE)



CONCRETE ENCASEMENT 3

PROPOSED UTILITY	EXISTING UTILITY						COMMENTS
	POTABLE WATER	GRAVITY SANITARY SEWER	SEWAGE FORCE MAIN	STORM	RECLAIMED WATER	ELECTRIC TELECOMMUNICATIONS	
POTABLE WATER	1'-0"	1'-6"	1'-6"	1'-0"	1'-0"	1'-0"	SEE NOTE 1
GRAVITY SANITARY SEWER	1'-6"	1'-0"	1'-0"	1'-6"	1'-6"	1'-0"	
SEWAGE FORCE MAIN	1'-6"	1'-0"	1'-0"	1'-0"	1'-6"	1'-0"	SEE NOTE 2
STORM	1'-0"	1'-6"	1'-0"	1'-0"	1'-0"	1'-0"	
RECLAIMED WATER	1'-0"	1'-6"	1'-6"	1'-0"	1'-0"	1'-0"	SEE NOTE 2
ELECTRIC TELECOMMUNICATIONS	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	

- NOTE:**
- ONLY OPTION 1 CONSTRUCTION IS ALLOWED WITHOUT APPROVAL OF ENGINEER.

MINIMUM VERTICAL SEPARATION REQUIREMENTS



PROPOSED UTILITY	MINIMUM HORIZONTAL SEPARATION EXISTING UTILITY					
	POTABLE WATER	GRAVITY SANITARY SEWER	SEWAGE FORCE MAIN	STORM	RECLAIMED WATER	ELECTRIC TELECOMMUNICATIONS
POTABLE WATER	1'-0"	10'-0"	10'-0"	3'-0"	3'-0"	3'-0"
GRAVITY SANITARY SEWER	10'-0"	1'-0"	1'-0"	3'-0"	3'-0"	3'-0"
SEWAGE FORCE MAIN	10'-0"	1'-0"	1'-0"	3'-0"	3'-0"	3'-0"
STORM	3'-0"	3'-0"	3'-0"	1'-0"	3'-0"	3'-0"
RECLAIMED WATER	3'-0"	3'-0"	3'-0"	3'-0"	1'-0"	3'-0"
ELECTRIC TELECOMMUNICATIONS	3'-0"	3'-0"	3'-0"	3'-0"	3'-0"	2'-0"

- NOTE:**
- UTILITIES SHALL NOT BE INSTALLED WITHIN THE DRIP LINE OF TREES WITHOUT PRIOR WRITTEN APPROVAL FROM THE ENGINEER.



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LTR.	DATE	REVISIONS	BY	APPRD.

DESIGNED	A GOODDEN
DRAWN	J ALLEN
CHECKED	R KOLLER

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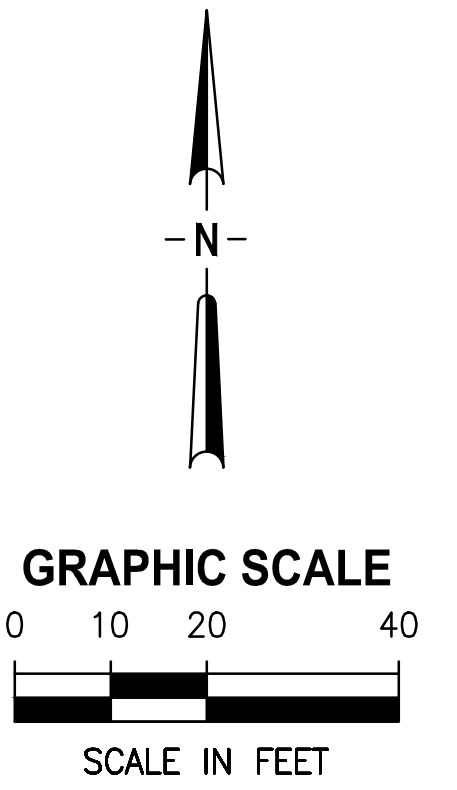
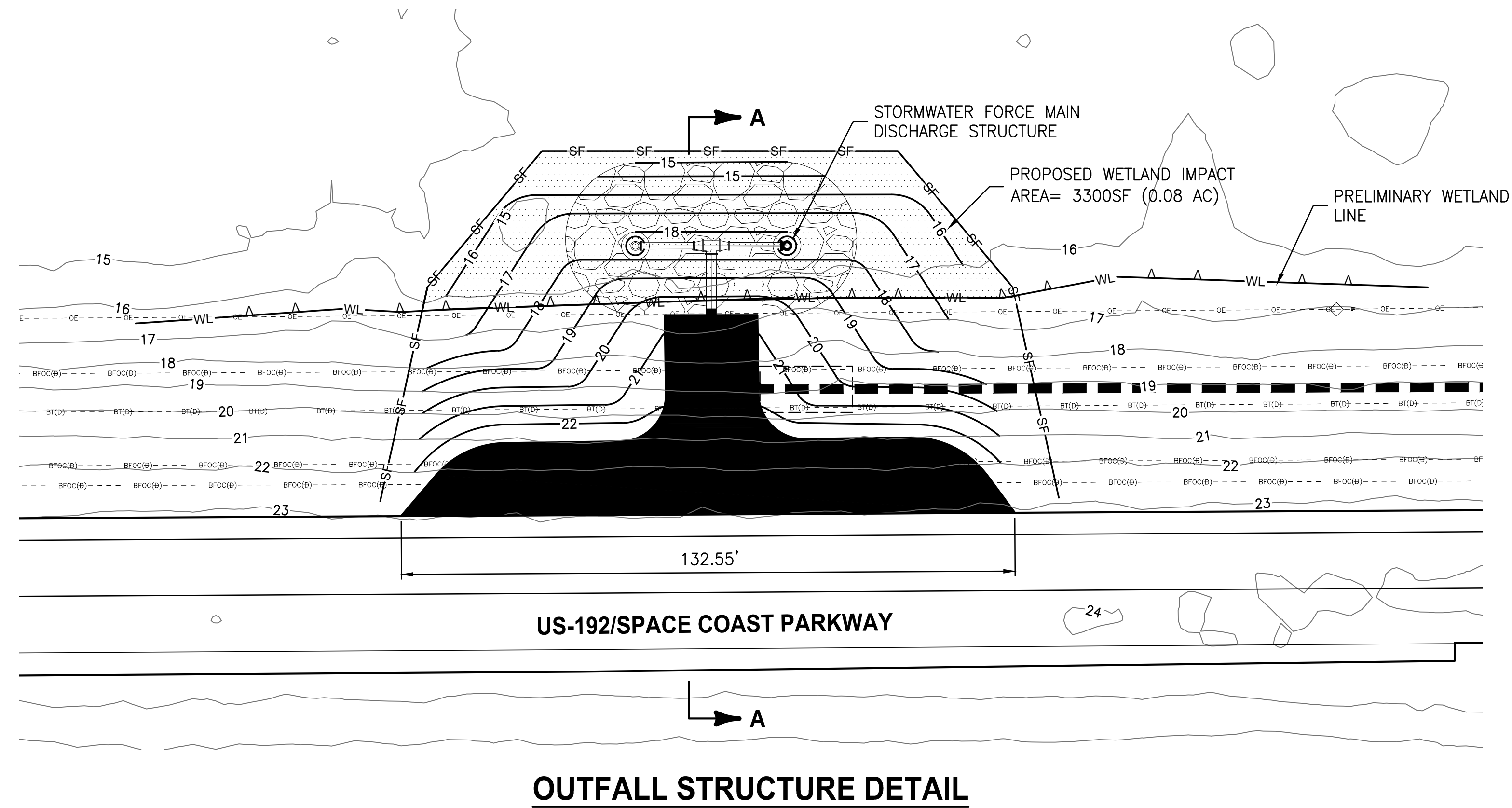
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**CRANE CREEK
 M-1 CANAL FLOW RESTORATION
 VOLUME 2**

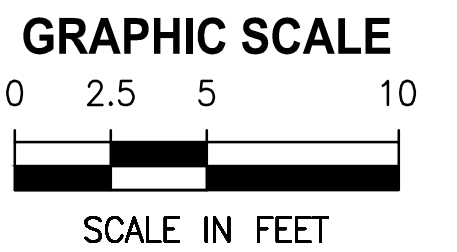
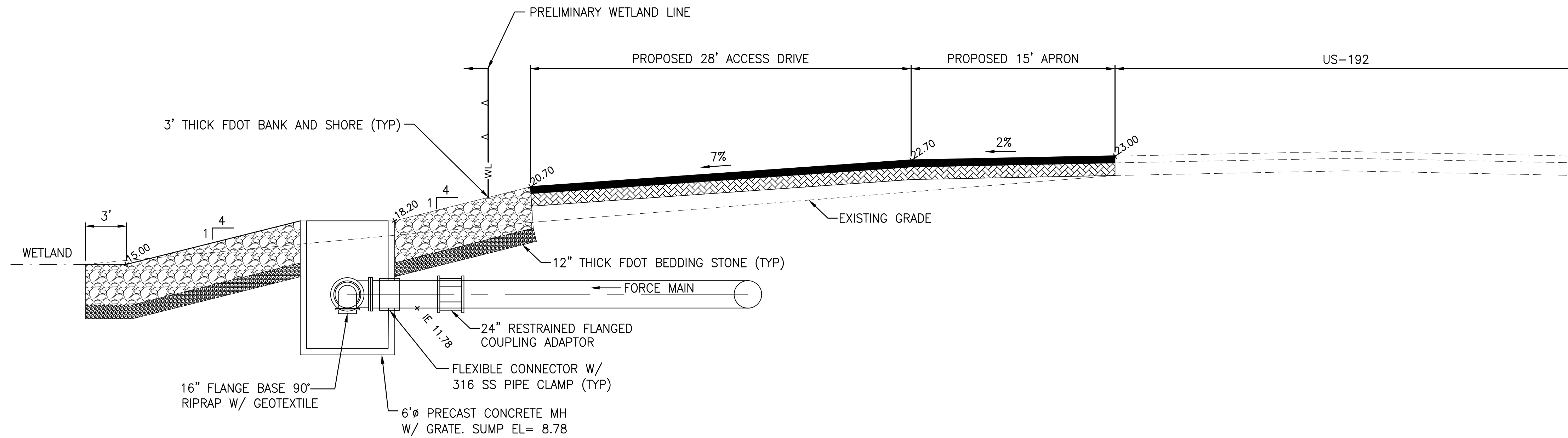
**DISCHARGE STORMWATER FORCEMAIN
 PLAN AND PROFILE**

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OUTFALL STRUCTURE DETAIL



SECTION A-A

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DESIGNED	D. SHELDON			
DRAWN	J. ALLEN			
CHECKED	R. KOLLER			
LTR.	DATE	REVISIONS	BY	APPRD.

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**CRANE CREEK
 M-1 CANAL FLOW RESTORATION
 VOLUME 2**

OUTFALL STRUCTURE DETAIL

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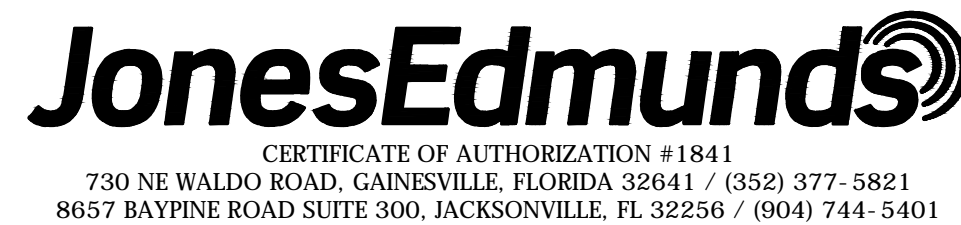
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CONTRACTOR REQUIREMENTS

SITE DESCRIPTION	GENERAL	SPILL CONTROL PRACTICES	SPILL PREVENTION	MAINTENANCE/INSPECTION PROCEDURES																		
<p>PROJECT NAME(S) AND LOCATION: CRANE CREEK M-1 CANAL FLOW RESTORATION DISCHARGE FORCE MAIN BREVARD COUNTY</p> <p>PROPERTY OWNER AND ADDRESS: PROPERTY PURCHASE TO BE FINALIZED PRIOR TO CONSTRUCTION ST. JOHNS RIVER WATER MANAGEMENT DISTRICT 4049 REID STREET PALATKA, FLORIDA 32177</p> <p>DESCRIPTION: THIS PROJECT WILL CONSIST OF: CONSTRUCTION OF A NEW 24" FORCE MAIN INSTALLED USING HORIZONTAL DIRECTIONAL DRILL THE CONSTRUCTION OF A NEW STORMWATER DISCHARGE OUTFALL WITH RIPRAP ENERGY DISSIPATION</p> <p>SOIL DISTURBING ACTIVITIES WILL INCLUDE: CLEARING, GRUBBING; INSTALLING EROSION AND SEDIMENT CONTROLS.</p> <p>SITE MAPS: SEE ATTACHED GRADING PLAN FOR PRE & POST DEVELOPMENT GRADES, AREAS OF SOILS, DISTURBANCE, LOCATION OF SURFACE WATERS, WETLANDS, PROTECTED AREAS, MAJOR STRUCTURAL AND NONSTRUCTURAL CONTROLS AND STORM WATER DISCHARGE POINTS. SEE ATTACHED EROSION CONTROL PLAN FOR LOCATION OF TEMPORARY STABILIZATION PRACTICES, AND TURBIDITY BARRIERS. SEE GENERAL NOTES AND SPECIFICATIONS FOR REQUIREMENTS FOR TEMPORARY AND PERMANENT STABILIZATION.</p> <p>SITE AREA: TOTAL LF OF PIPELINE = 7200+/- TOTAL AREA TO BE DISTURBED < 5 ACRES</p> <p>NAME OF RECEIVING WATERS: SITE DRAINS INTERNALLY TO AN EXISTING BORROW AREA. DURING FLOOD CONDITIONS THE SITE IS PART OF THE ST JOHNS RIVER FLOODPLAIN.</p>	<p>SEQUENCE OF MAJOR ACTIVITIES</p> <ol style="list-style-type: none"> COMPLETE AND SUBMIT NOTICE OF INTENT (NOI) TO FDEP. INSTALL SILT FENCES AND OTHER EROSION CONTROL DEVICES. STOCK PILE TOP SOIL AS REQUIRED. PERFORM PRELIMINARY GRADING ON SITE AS REQUIRED. STABILIZE CLEARED AREAS AND STOCKPILES AS SOON AS PRACTICABLE. CONSTRUCT DRIVE AREAS. CONSTRUCT DISCHARGE OUTLET STRUCTURE. COMPLETE GRADING AND INSTALL PERMANENT SEEDING/SOD. WHEN ALL CONSTRUCTION ACTIVITY IS COMPLETE AND THE SITE IS STABILIZED, REMOVE ANY TEMPORARY DIVERSION SWALES/DIKES AND RESEED/SOD AS REQUIRED. <p>CONTROLS IT IS THE CONTRACTORS RESPONSIBILITY TO IMPLEMENT THE EROSION AND TURBIDITY CONTROLS AS SHOWN ON THE SEDIMENT AND EROSION CONTROL PLAN. IT IS ALSO THE CONTRACTORS RESPONSIBILITY TO ENSURE THESE CONTROLS ARE PROPERLY INSTALLED, MAINTAINED AND FUNCTIONING PROPERLY TO PREVENT TURBID OR POLLUTED WATER FROM LEAVING THE PROJECT SITE. THE CONTRACTOR WILL ADJUST THE EROSION CONTROL PLAN AND ADD ADDITIONAL CONTROL MEASURES, AS REQUIRED, TO ENSURE THE SITE MEETS ALL FEDERAL STATE AND LOCAL EROSION AND SEDIMENT CONTROL PLAN AND AS REQUIRED TO MEET THE SEDIMENT AND TURBIDITY REQUIREMENTS IMPOSED ON THE PROJECT SITE BY THE REGULATORY AGENCIES.</p> <p>EROSION AND SEDIMENT CONTROLS STABILIZATION PRACTICES</p> <ol style="list-style-type: none"> FILTER FABRIC BARRIER: FILTER FABRIC BARRIERS CAN BE USED BELOW DISTURBED AREAS SUBJECT TO SHEET AND RILL EROSION WITH THE FOLLOWING LIMITATIONS: A. WHERE THE MAXIMUM SLOPE BEHIND THE BARRIER IS 33 PERCENT. B. IN MINOR SWALES OR DITCH LINES WHERE THE MAXIMUM CONTRIBUTING DRAINAGE AREA IS NO GREATER THAN 2.0 ACRES. BRUSH BARRIER WITH FILTER FABRIC: BRUSH BARRIER MAY BE USED BELOW DISTURBED AREAS SUBJECT TO SHEET AND RILL EROSION WHERE ENOUGH RESIDUE MATERIAL IS AVAILABLE ON SITE. LEVEL SPREADER: A LEVEL SPREADER MAY BE USED WHERE SEDIMENT-FREE STORM RUNOFF IS INTERCEPTED AND DIVERTED AWAY FROM THE GRADED AREAS ONTO UNDISTURBED STABILIZED AREAS. THIS PRACTICE APPLIES ONLY IN THOSE SITUATIONS WHERE THE SPREADER CAN BE CONSTRUCTED ON UNDISTURBED SOIL AND THE AREA BELOW THE LEVEL UP IS STABILIZED. THE WATER SHOULD NOT BE ALLOWED TO RECONCENTRATE AFTER RELEASE. STOCKPILING MATERIAL: NO EXCAVATED MATERIAL SHALL BE STOCKPILED IN SUCH A MANNER AS TO DIRECT RUNOFF DIRECTLY OFF THE PROJECT SITE INTO ANY ADJACENT WATER BODY OR STORM WATER COLLECTION FACILITY. EXPOSED AREA LIMITATION: THE SURFACE AREA OF OPEN, ERODIBLE SOIL EXPOSED BY CLEARING GRUBBING OPERATIONS OR EXCAVATION AND FILLING OPERATIONS SHALL NOT EXCEED 2.0 ACRES. THIS REQUIREMENT MAY BE WAIVED BY THE OWNER WITH A DETAILED EROSION CONTROL PLAN PREPARED BY THE CONTRACTOR. THE DETAILED PLAN MUST INCLUDE A SCHEDULE, DESCRIPTION OF CONSTRUCTION MEANS AND METHODS AND EROSION CONTROL MANAGEMENT PRACTICES WHICH DEMONSTRATES THAT OPENING OF ADDITIONAL AREA WILL NOT SIGNIFICANTLY AFFECT OFF-SITE DEPOSIT OF SEDIMENTS. TEMPORARY SEEDING: AREAS OPENED BY CONSTRUCTION OPERATIONS AND THAT ARE NOT ANTICIPATED TO BE RE-EXCAVATED OR DRESSED AND RECEIVE FINAL GRASSING TREATMENT WITHIN 21 DAYS SHALL BE SEEDDED WITH A QUICK GROWING GRASS SPECIES WHICH WILL PROVIDE AN EARLY COVER DURING THE SEASON IN WHICH IT IS PLANTED AND WILL NOT LATER COMPETE WITH THE PERMANENT GRASSING. 	<p>9. TEMPORARY REGRASSING: IF, AFTER 14 DAYS FROM SEEDING, THE TEMPORARY GRASSED AREAS HAVE NOT MAINTAINED A MINIMUM OF 75 PERCENT GOOD GRASS COVER, THE AREA WILL BE REWORKED AND ADDITIONAL SEED APPLIED SUFFICIENT TO ESTABLISH THE DESIRED VEGETATIVE COVER.</p> <p>10. MAINTENANCE: ALL FEATURES OF THE PROJECT DESIGNED AND CONSTRUCTED TO PREVENT EROSION AND SEDIMENT SHALL BE MAINTAINED DURING THE LIFE OF THE CONSTRUCTION SO AS TO FUNCTION AS THEY WERE ORIGINALLY DESIGNED AND CONSTRUCTED.</p> <p>11. PERMANENT EROSION CONTROL: THE EROSION CONTROL FACILITIES OF THE PROJECT SHOULD BE DESIGNED TO MINIMIZE THE IMPACT ON THE OFFSITE FACILITIES.</p> <p>12. PERMANENT SEEDING: ALL AREAS WHICH HAVE BEEN DISTURBED BY CONSTRUCTION WILL BE SEEDDED.</p> <p>STRUCTURAL PRACTICES</p> <ol style="list-style-type: none"> TEMPORARY DIVERSION DIKE: TEMPORARY DIVERSION DIKES MAY BE USED TO DIVERT RUNOFF THROUGH A SEDIMENT-TRAPPING FACILITY. TEMPORARY SEDIMENT TRAP: A SEDIMENT TRAP IS USUALLY INSTALLED IN AN DRAINAGEWAY AT A STORM DRAIN INLET OR AT OTHER POINTS OF DISCHARGE FROM A DISTURBED AREA WITH THE FOLLOWING LIMITATIONS: A. THE SEDIMENT TRAP MAY BE CONSTRUCTED EITHER INDEPENDENTLY OR IN CONJUNCTION WITH A TEMPORARY DIVERSION DIKE. OUTLET PROTECTION: APPLICABLE TO THE OUTLETS OF ALL PIPES AND PAVED CHANNEL SECTIONS WHERE THE VELOCITY OF FLOW AT DESIGN CAPACITY OF THE OUTLET WILL EXCEED THE PERMISSIBLE VELOCITY OF THE RECEIVING CHANNEL OR AREA. 	<p>MATERIAL MANAGEMENT PRACTICES THE FOLLOWING ARE THE MATERIAL MANAGEMENT PRACTICES THAT WILL BE USED TO REDUCE THE RISK OF SPILLS OR OTHER ACCIDENTAL EXPOSURE OF MATERIALS AND SUBSTANCES TO STORM WATER RUNOFF.</p> <p>GOOD HOUSEKEEPING THE FOLLOWING GOOD HOUSEKEEPING PRACTICES WILL BE FOLLOWED ONSITE DURING THE CONSTRUCTION PROJECT.</p> <p>AN EFFORT WILL BE MADE TO STORE ONLY ENOUGH PRODUCT REQUIRED TO DO THE JOB.</p> <p>ALL MATERIALS STORED ONSITE WILL BE STORED IN A NEAT, ORDERLY MANNER IN THEIR APPROPRIATE CONTAINERS AND, IF POSSIBLE, UNDER A ROOF OR OTHER ENCLOSURE.</p> <p>PRODUCTS WILL BE KEPT IN THEIR ORIGINAL CONTAINERS WITH THE ORIGINAL MANUFACTURER'S LABEL.</p> <p>SUBSTANCES WILL NOT BE MIXED WITH ONE ANOTHER UNLESS RECOMMENDED BY THE MANUFACTURER.</p> <p>WHENEVER POSSIBLE, ALL OF A PRODUCT WILL BE USED UP BEFORE DISPOSING OF THE CONTAINER.</p> <p>MANUFACTURER'S RECOMMENDATIONS FOR PROPER USE AND DISPOSAL WILL BE FOLLOWED.</p> <p>HAZARDOUS PRODUCTS THESE PRACTICES ARE USED TO REDUCE THE RISKS ASSOCIATED WITH HAZARDOUS MATERIALS.</p> <p>PRODUCTS WILL BE KEPT IN ORIGINAL CONTAINERS UNLESS THEY ARE NOT RESEALABLE.</p> <p>ORIGINAL LABELS AND MATERIAL SAFETY DATA WILL BE RETAINED; THEY CONTAIN IMPORTANT PRODUCT INFORMATION.</p> <p>IF SURPLUS PRODUCT MUST BE DISPOSED OF MANUFACTURER'S OR LOCAL AND STATE RECOMMENDED METHODS FOR PROPER DISPOSAL WILL BE FOLLOWED.</p> <p>PRODUCT SPECIFIC PRACTICES THE FOLLOWING PRODUCT SPECIFIC PRACTICES WILL BE FOLLOWED ONSITE:</p> <p>PETROLEUM PRODUCTS ALL ONSITE VEHICLES WILL BE MONITORED FOR LEAKS AND RECEIVE REGULAR PREVENTATIVE MAINTENANCE TO REDUCE THE CHANCE OF LEAKAGE. PETROLEUM PRODUCTS WILL BE STORED IN TIGHTLY SEALED CONTAINERS WHICH ARE CLEARLY LABELED. ANY ASPHALT SUBSTANCES USED ONSITE WILL BE APPLIED ACCORDING TO THE MANUFACTURER'S RECOMMENDATIONS.</p> <p>FERTILIZERS FERTILIZERS USED WILL BE APPLIED ONLY IN THE MINIMUM AMOUNTS RECOMMENDED BY THE MANUFACTURER. ONCE APPLIED, FERTILIZER WILL BE WORKED INTO THE SOIL TO LIMIT EXPOSURE TO STORM WATER. STORAGE WILL BE IN A COVERED AREA. THE CONTENTS OF ANY PARTIALLY USED BAGS OF FERTILIZER WILL BE TRANSFERRED TO A SEALABLE PLASTIC BIN TO AVOID SPILLS.</p> <p>PAINTS ALL CONTAINERS WILL BE TIGHTLY SEALED AND STORED WHEN NOT REQUIRED FOR USE. EXCESS PAINT WILL NOT BE DISCHARGED TO THE STORM SEWER SYSTEM BUT WILL BE PROPERLY DISPOSED OF ACCORDING TO MANUFACTURER'S INSTRUCTIONS OR STATE AND LOCAL REGULATIONS.</p> <p>CONCRETE TRUCKS CONCRETE TRUCKS WILL NOT BE ALLOWED TO WASH OUT OR DISCHARGE SURPLUS CONCRETE OR DRUM WASH WATER TO DITCHES, PONDS OR OTHER WATERWAYS. WASHWATER SHALL BE COLLECTED IN A TEMPORARY SETTLING POND.</p>	<p>EROSION AND SEDIMENT CONTROL INSPECTION AND MAINTENANCE PRACTICES THE FOLLOWING ARE INSPECTION AND MAINTENANCE PRACTICES THAT WILL BE USED TO MAINTAIN EROSION AND SEDIMENT CONTROLS.</p> <p>NO MORE THAN ACRES OF THE SITE WILL BE CLEARED AT ONE TIME WITHOUT WRITTEN PERMISSION FROM THE ENGINEER.</p> <p>ALL CONTROL MEASURES WILL BE INSPECTED BY A CERTIFIED SUPERINTENDENT, THE PERSON RESPONSIBLE FOR THE DAY-TO-DAY SITE OPERATION OR SOMEONE APPOINTED BY THE SUPERINTENDENT, AT LEAST ONCE A WEEK AND WITHIN 24 HOURS OF THE END OF ANY STORM EVENT OF 1/2" OR GREATER.</p> <p>ALL TURBIDITY CONTROL MEASURES WILL BE MAINTAINED IN GOOD WORKING ORDER; IF A REPAIR IS NECESSARY, IT WILL BE INITIATED WITHIN 24 HOURS OF REPORT.</p> <p>BUILT UP SEDIMENT WILL BE REMOVED FROM SILT FENCE WHEN IT HAS REACHED ONE-THIRD THE HEIGHT OF THE FENCE.</p> <p>SILT FENCE WILL BE INSPECTED FOR DEPTH OF SEDIMENT, TEARS, TO SEE IF THE FABRIC IS SECURELY ATTACHED TO THE FENCE POSTS, AND TO SEE THAT THE FENCE POSTS ARE FIRMLY IN THE GROUND.</p> <p>CONSTRUCTION ENTRANCES WILL BE INSPECTED FOR DEPTH OF CRUSHED STONE BED AND FILTER FABRIC CONDITION. THE BED SHALL HAVE A 6" THICKNESS AND THE FILTER FABRIC SHALL BE FREE OF TEARS AND FIRMLY SECURE. ENTRANCES SHALL BE REMOVED PRIOR TO CONSTRUCTION OF DRIVEWAYS.</p> <p>THE SEDIMENT BASINS WILL BE INSPECTED FOR DEPTH OF SEDIMENT, AND BUILT UP SEDIMENT WILL BE REMOVED WHEN IT REACHES 10 PERCENT OF THE DESIGN CAPACITY OR AT THE END OF THE JOB.</p> <p>DIVERSION DIKES/SWALES WILL BE INSPECTED AND ANY BREACHES PROMPTLY REPAIRED.</p> <p>TEMPORARY AND PERMANENT SEEDING AND PLANTING WILL BE INSPECTED FOR BARE SPOTS, WASHOUTS, AND HEALTHY GROWTH.</p> <p>A MAINTENANCE INSPECTION REPORT WILL BE MADE AFTER EACH INSPECTION. COPY OF THE REPORT FORM TO BE COMPLETED BY THE INSPECTOR IS ATTACHED. THE REPORTS WILL BE KEPT ON SITE DURING CONSTRUCTION AND AVAILABLE UPON REQUEST TO THE OWNER, ENGINEER OR ANY FEDERAL, STATE, AND LOCAL AGENCY APPROVING SEDIMENT AND EROSION PLANS, OR STORM WATER MANAGEMENT PLANS. THE REPORTS SHALL BE MADE AND RETAINED AS PART OF THE STORM WATER POLLUTION PREVENTION PLAN FOR AT LEAST THREE YEARS FROM THE DATE THAT THE SITE IS FINALLY STABILIZED AND THE NOTICE OF TERMINATION IS SUBMITTED. THE REPORTS SHALL IDENTIFY ANY INCIDENTS OF NON-COMPLIANCE.</p> <p>THE SITE SUPERINTENDENT WILL SELECT UP TO THREE CERTIFIED INDIVIDUALS WHO WILL BE RESPONSIBLE FOR INSPECTIONS, MAINTENANCE AND REPAIR ACTIVITIES, AND FILLING OUT THE INSPECTION AND MAINTENANCE REPORT.</p> <p>PERSONNEL SELECTED FOR INSPECTION AND MAINTENANCE RESPONSIBILITIES WILL RECEIVE TRAINING FROM THE SITE SUPERINTENDENT AND MUST ENFORCE THE FDEP NPDES SWPPP FOR THIS PROJECT. THEY WILL BE TRAINED IN ALL THE INSPECTION AND MAINTENANCE PRACTICES NECESSARY FOR KEEPING THE EROSION AND SEDIMENT CONTROLS USED ONSITE IN GOOD WORKING ORDER.</p>																		
<p>CONTROLS THIS PLAN UTILIZES BEST MANAGEMENT PRACTICES TO CONTROL EROSION BY STORM WATER RUN OFF, AN EROSION CONTROL PLAN HAS BEEN PREPARED TO INSTRUCT THE CONTRACTOR ON PLACEMENT OF THESE CONTROLS, IT IS THE CONTRACTORS RESPONSIBILITY TO INSTALL AND MAINTAIN THE CONTROLS AS PER PLAN AS WELL AS ENSURING THE PLAN IS PROVIDING THE PROPER PROTECTION AS REQUIRED BY FEDERAL, STATE, AND LOCAL LAWS. REFER TO 'CONTRACTORS REQUIREMENTS' FOR A VERBAL DESCRIPTION OF THE CONTROLS THAT MAY BE IMPLEMENTED.</p> <p>CERTIFICATION OF COMPLIANCE WITH FEDERAL, STATE, AND LOCAL REGULATIONS IN AN EFFORT TO ENSURE COMPLIANCE WITH FEDERAL, STATE, AND LOCAL LAWS REGARDING EROSION AND TURBIDITY CONTROLS, THE FOLLOWING PERMITS HAVE BEEN OBTAINED. FDEP ERP PERMIT # 0384808-001-EI U.S.A.C.E. PERMIT # _____</p>		<p>SPILL CONTROL PRACTICES IN ADDITION TO THE GOOD HOUSEKEEPING AND MATERIAL MANAGEMENT PRACTICES DISCUSSED IN THE PREVIOUS SECTIONS OF THIS PLAN, THE FOLLOWING PRACTICES WILL BE FOLLOWED FOR SPILL PREVENTION AND CLEANUP:</p> <p>MANUFACTURERS' RECOMMENDED METHODS FOR SPILL CLEANUP WILL BE CLEARLY POSTED ON SITE AND SITE PERSONNEL WILL BE MADE AWARE OF THE METHODS AND POSTED LOCATION.</p> <p>MATERIALS AND EQUIPMENT NECESSARY FOR SPILL CLEANUP WILL BE KEPT IN THE MATERIAL STORAGE AREA ONSITE. EQUIPMENT AND MATERIALS WILL INCLUDE, BUT NOT BE LIMITED TO BROOMS, DUST PANS, MOPS, RAGS, GLOVES, GOGGLES, LIQUID ABSORBENT (I.E. KITTY LITTER OR EQUAL), SAND SAWDUST, AND PLASTIC AND METAL TRASH CONTAINERS SPECIFICALLY FOR THIS PURPOSE.</p> <p>ALL SPILLS WILL BE CLEANED UP IMMEDIATELY AFTER DISCOVERY.</p> <p>THE SPILL AREA WILL BE KEPT WELL VENTILATED AND PERSONNEL WILL WEAR APPROPRIATE PROTECTIVE CLOTHING TO PREVENT INJURY FROM CONTACT WITH A HAZARDOUS SUBSTANCE.</p> <p>SPILL OF TOXIC OR HAZARDOUS SUBSTANCE WILL BE REPORTED IMMEDIATELY TO THE OWNER.</p> <p>THE SPILL PREVENTION PLAN WILL BE ADJUSTED TO INCLUDE MEASURES TO PREVENT THIS TYPE OF SPILL FROM REOCCURRING AND HOW TO CLEAN UP THE SPILL IF THERE IS ANOTHER ONE. A DESCRIPTION OF THE SPILL, WHAT CAUSED IT, AND THE CLEANUP MEASURES WILL ALSO BE INCLUDED.</p> <p>THE SITE SUPERINTENDENT RESPONSIBLE FOR THE DAY-TO-DAY SITE OPERATIONS, WILL BE THE SPILL PREVENTION AND CLEANUP COORDINATOR. HE/SHE WILL DESIGNATE AT LEAST ONE OTHER SITE PERSONNEL WHO WILL RECEIVE SPILL PREVENTION AND CLEANUP TRAINING. THESE INDIVIDUALS WILL EACH BECOME RESPONSIBLE FOR A PARTICULAR PHASE OF PREVENTION AND CLEANUP, THE NAMES OF RESPONSIBLE SPILL PERSONNEL WILL BE POSTED IN THE MATERIAL STORAGE AREA AND IF APPLICABLE, IN THE OFFICE TRAILER ONSITE.</p>	<p>OTHER CONTROLS WASTE DISPOSAL WASTE MATERIALS ALL WASTE MATERIALS EXCEPT LAND CLEARING DEBRIS SHALL BE COLLECTED AND STORED IN A METAL DUMPSTER. THE DUMPSTER WILL MEET ALL LOCAL AND STATE SOLID WASTE MANAGEMENT REGULATIONS. THE DUMPSTER WILL BE EMPTIED AS NEEDED AND THE TRASH WILL BE HAULED TO A STATE APPROVED LANDFILL. ALL PERSONNEL WILL BE INSTRUCTED REGARDING THE CORRECT PROCEDURE FOR WASTE DISPOSAL. NOTICES STATING THESE PRACTICES WILL BE POSTED AT THE CONSTRUCTION SITE BY THE CONSTRUCTION SUPERINTENDENT, THE INDIVIDUAL WHO MANAGES THE DAY-TO-DAY SITE OPERATIONS, WILL BE RESPONSIBLE FOR SEEING THAT THESE PROCEDURES ARE FOLLOWED.</p> <p>HAZARDOUS WASTE ALL HAZARDOUS WASTE MATERIALS WILL BE DISPOSED OF IN THE MANNER SPECIFIED BY LOCAL OR STATE REGULATION OR BY THE MANUFACTURER. SITE PERSONNEL WILL BE INSTRUCTED IN THESE PRACTICES AND THE SITE SUPERINTENDENT, THE INDIVIDUAL WHO MANAGES DAY-TO-DAY SITE OPERATIONS, WILL BE RESPONSIBLE FOR SEEING THAT THESE PRACTICES ARE FOLLOWED.</p> <p>SANITARY WASTE ALL SANITARY WASTE WILL BE COLLECTED FROM THE PORTABLE UNITS AS NEEDED TO PREVENT POSSIBLE SPILLAGE. THE WASTE WILL BE COLLECTED AND DISPOSED OF IN ACCORDANCE WITH STATE AND LOCAL WASTE DISPOSAL REGULATIONS FOR SANITARY SEWER OR SEPTIC SYSTEMS.</p> <p>OFFSITE VEHICLE TRACKING A STABILIZED CONSTRUCTION ENTRANCE WILL BE PROVIDED TO HELP REDUCE VEHICLE TRACKING OF SEDIMENTS. DUMP TRUCKS HAULING MATERIAL FROM THE CONSTRUCTION SITE WILL BE COVERED WITH A TARP.</p>	<p>NON-STORM WATER DISCHARGES IT IS EXPECTED THAT THE FOLLOWING NON-STORM WATER DISCHARGES WILL OCCUR FROM THE SITE DURING THE CONSTRUCTION PERIOD.</p> <p>UNCONTAMINATED GROUNDWATER (FROM DEWATERING EXCAVATION).</p> <p>ALL NON-STORM WATER DISCHARGES WILL BE DIRECTED TO THE SEDIMENT BASIN OR OTHER APPROPRIATE AREA PRIOR TO DISCHARGE TO EXISTING DITCHES OR WETLANDS.</p>																		
<p>POLLUTION PREVENTION PLAN CERTIFICATION I CERTIFY UNDER PENALTY OF LAW THAT THIS DOCUMENT AND ALL ATTACHMENTS WERE PREPARED UNDER MY DIRECTION OR SUPERVISION IN ACCORDANCE WITH A SYSTEM DESIGNED TO ASSURE THAT QUALIFIED PERSONNEL PROPERLY GATHERED AND EVALUATED THE INFORMATION SUBMITTED, BASED ON MY INQUIRY OF THE PERSON OR PERSONS WHO MANAGE THE SYSTEM, OR THOSE PERSONS DIRECTLY RESPONSIBLE FOR GATHERING THE INFORMATION, THE INFORMATION SUBMITTED IS, TO THE BEST OF MY KNOWLEDGE AND BELIEF, TRUE, ACCURATE, AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT FOR KNOWING VIOLATIONS.</p> <p>SIGNED: _____ TITLE: _____ DATE: _____</p>				<p>CONTRACTORS CERTIFICATION I CERTIFY UNDER PENALTY OF LAW THAT I UNDERSTAND THE TERMS AND CONDITIONS OF THE GENERAL NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) PERMIT THAT AUTHORIZES THE STORM WATER DISCHARGES ASSOCIATED WITH CONSTRUCTION ACTIVITY FROM THE SITE IDENTIFIED AS PART OF THIS CERTIFICATION.</p>																		
<p>TIMING OF CONTROLS/MEASURES AS INDICATED IN THE SEQUENCE OF MAJOR ACTIVITIES, THE SILT FENCES, STABILIZED CONSTRUCTION ENTRANCE AND TURBIDITY CURTAIN WILL BE CONSTRUCTED PRIOR TO CLEARING OR GRADING OF ANY OTHER PORTIONS OF THE SITE. STABILIZATION MEASURES SHALL BE INITIATED AS SOON AS PRACTICAL IN PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITIES HAVE TEMPORARILY OR PERMANENTLY CEASED. ONCE CONSTRUCTION ACTIVITY CEASES PERMANENTLY IN ACCORDANCE WITH THE PLANS AND AFTER THE ENTIRE SITE IS STABILIZED, THE ACCUMULATED SEDIMENT WILL BE REMOVED FROM THE SEDIMENT TRAPS AND STABILIZED IN ACCORDANCE WITH THE SEDIMENT AND EROSION CONTROL PLAN.</p>	<p>INVENTORY FOR POLLUTION PREVENTION PLAN THE MATERIAL OR SUBSTANCES LISTED BELOW ARE EXPECTED TO BE PRESENT ONSITE DURING CONSTRUCTION:</p> <table border="0"> <tr> <td>CONCRETE</td> <td>FERTILIZERS</td> <td>WOOD</td> </tr> <tr> <td>DETERGENTS</td> <td>PETROLEUM BASED PRODUCTS</td> <td></td> </tr> <tr> <td></td> <td>CLEANING SOLVENTS</td> <td></td> </tr> <tr> <td></td> <td>PAINTS</td> <td></td> </tr> </table>	CONCRETE	FERTILIZERS	WOOD	DETERGENTS	PETROLEUM BASED PRODUCTS			CLEANING SOLVENTS			PAINTS				<table border="0"> <tr> <td>SIGNATURE</td> <td>BUSINESS NAME & ADDRESS OF CONTRACTOR, ALL SUBS</td> <td>RESPONSIBLE FOR/DUTIES GENERAL CONTRACTOR</td> </tr> <tr> <td></td> <td></td> <td>SUBCONTRACTOR</td> </tr> </table>	SIGNATURE	BUSINESS NAME & ADDRESS OF CONTRACTOR, ALL SUBS	RESPONSIBLE FOR/DUTIES GENERAL CONTRACTOR			SUBCONTRACTOR
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		SUBCONTRACTOR																				

DESIGNED A GOODDEN
DRAWN J ALLEN
CHECKED R KOLLER



CRANE CREEK
M-1 CANAL FLOW RESTORATION
VOLUME 2

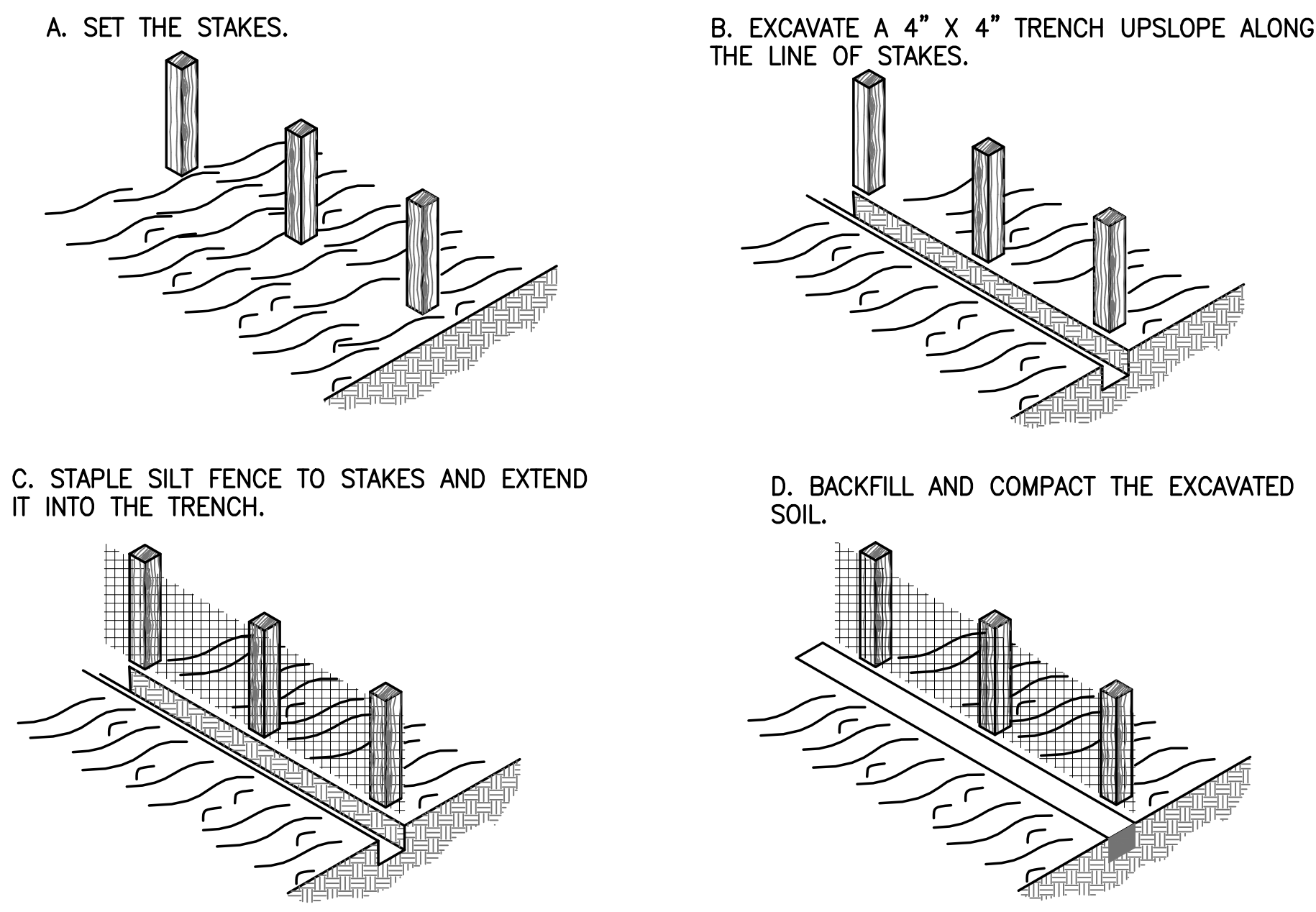
DISCHARGE SITE EROSION CONTROL
PLAN

AMY LIANE GOODDEN, PROFESSIONAL ENGINEER, STATE OF FLORIDA, LICENSE NUMBER 60097
THIS ITEM HAS BEEN DIGITALLY SIGNED AND SEALED BY AMY LIANE GOODDEN ON THE DATE AT THE RIGHT.
PRINTED COPIES OF THIS DOCUMENT ARE NOT CONSIDERED SIGNED AND SEALED AND THE SIGNATURE MUST BE VERIFIED ON ANY ELECTRONIC COPIES.

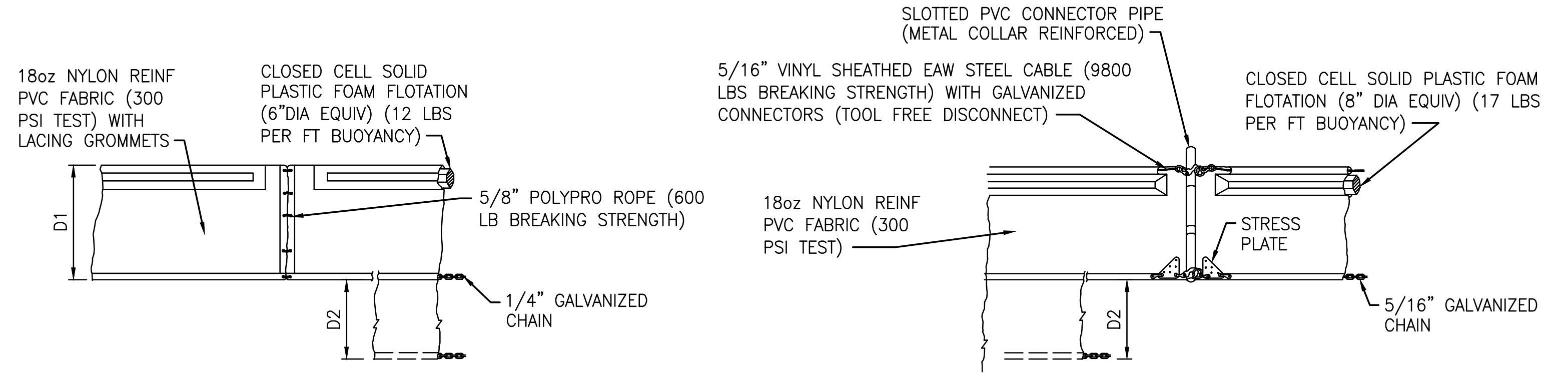
PROJECT NO: 19750-066-01
INDEX NO:
DATE: JAN 2022
DWG NO: EC6-1

PLOTTED: 1/26/2022 10:52 AM JON W. ALLEN, JR.

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CONSTRUCTION OF A SILT FENCE DETAIL 1
NTS



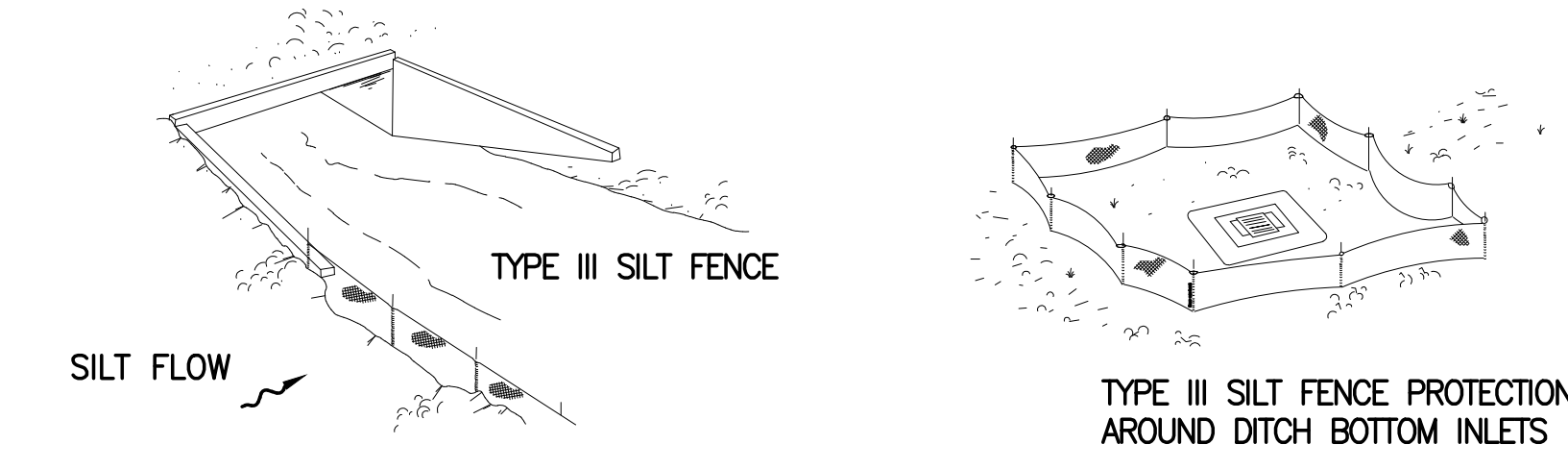
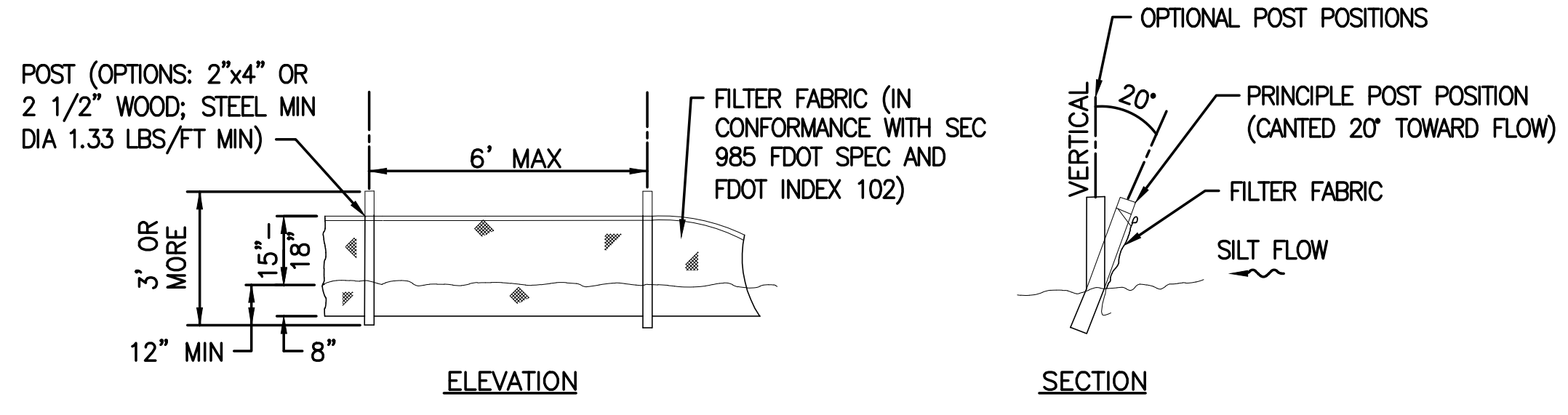
TYPE 1
D1 = 5' STD (SINGLE PANEL FOR DEPTHS 5' OR LESS)
D2 = 5' STD (ADDITIONAL PANEL FOR DEPTHS 5')

TYPE 2

CURTAIN TO REACH BOTTOM UP TO DEPTHS OF 10 FEET. TWO (2) PANELS TO BE USED FOR DEPTHS GREATER THAN 10 FEET UNLESS SPECIAL DEPTH CURTAINS SPECIFICALLY CALL FOR IN THE PLANS OR AS DETERMINED BY THE ENGINEER.

NOTICE: COMPONENTS OF TYPES 1 AND 2 MAY BE SIMILAR OR IDENTICAL TO PROPRIETARY DESIGNS. ANY INFRINGEMENT ON THE PROPRIETARY RIGHTS OF THE DESIGNER SHALL BE THE SOLE RESPONSIBILITY OF THE USER. SUBSTITUTIONS FOR TYPES 1 AND 2 SHALL BE AS APPROVED BY THE ENGINEER.

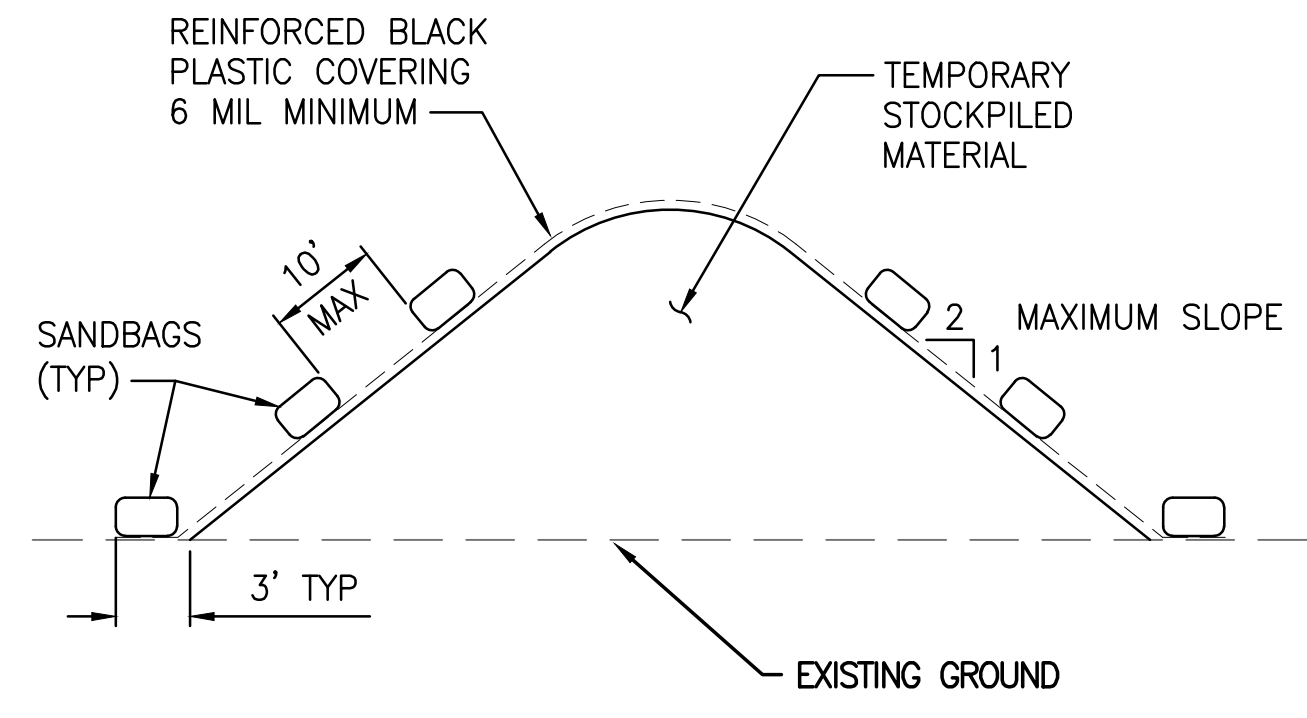
TYPICAL FLOATING TURBIDITY BARRIER DETAIL



TYPE III SILT FENCE

NOTES:
A. 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.
B. WHEN JOINING BUTT ENDS OF SILT FENCE FABRIC; JOIN FABRIC ENDS, WRAP AROUND A POST 360-DEGREES, AND SET POST.

FDOT INDEX NUMBER 102 SILT FENCE DETAIL 3
NTS



NOTES:
1. ALL SEAMS SHALL BE TAPED OR WEIGHTED DOWN FULL LENGTH. ALL SEAMS SHALL HAVE A MINIMUM 12" OVERLAP.
2. SEAMS PARALLEL TO THE SLOPE CONTOUR SHALL HAVE THE UPHILL SHEET OVERLAP THE DOWN HILL SHEET.
3. NO SURFACE RUN-OFF SHALL BE ALLOWED TO RUN UNDER THE PLASTIC COVERING.
4. DRAINAGE FROM AREAS COVER BY REINFORCED PLASTIC SHEETING SHALL BE CONTROLLED SUCH THAT NO DISCHARGE OCCURS DIRECTLY ONTO UNCONTROLLED DISTURBED AREAS OF THE CONSTRUCTION SITE.

TEMPORARY STOCKPILE COVERING
NTS

SAVED: 12/23/2021 2:23 PM JALLEN Y:\19750-SURFMD\PROJECTS\066-01_CRANE_CREEK_M-1_FLOW_RESTORATION_DISCHARGE\CONTROL\19750066-VOL2-EC6-2.DWG

40% DESIGN-ERP SUBMITTAL

DESIGNED	A GOODDEN			
DRAWN	J ALLEN			
CHECKED	R KOLLER			
LTR.	DATE	REVISIONS	BY	APPRD.

JonesEdmunds
CERTIFICATE OF AUTHORIZATION #1841
730 NE WALDO ROAD, GAINESVILLE, FLORIDA 32641 / (352) 377-5821
8657 BAYPINE ROAD SUITE 300, JACKSONVILLE, FL 32256 / (904) 744-5401

**CRANE CREEK
M-1 CANAL FLOW RESTORATION
VOLUME 2**

**DISCHARGE SITE EROSION CONTROL
NOTES**

AMY LIANE GOODDEN, PROFESSIONAL ENGINEER, STATE OF FLORIDA, LICENSE NUMBER 60097	PROJECT NO: 19750-066-01	DATE: JAN 2022
THIS ITEM HAS BEEN DIGITALLY SIGNED AND SEALED BY AMY LIANE GOODDEN ON THE DATE AT THE RIGHT.	INDEX NO:	DWG NO: EC6-2
PRINTED COPIES OF THIS DOCUMENT ARE NOT CONSIDERED SIGNED AND SEALED AND THE SIGNATURE MUST BE VERIFIED ON ANY ELECTRONIC COPIES.		



FLORIDA DEPARTMENT OF Environmental Protection

CENTRAL DISTRICT OFFICE
3319 MAGUIRE BLVD., SUITE 232
ORLANDO, FLORIDA 32803

Ron DeSantis
Governor

Jeanette Nuñez
Lt. Governor

Noah Valenstein
Secretary

Permittee/Authorized Entity:
St Johns River Water Management District (SJRWMD)
Ann Shortelle, Executive Director
AShortelle@sjrwmd.com
PO Box 1429
Palatka, Florida 32178-1429

SJRWMD M-1 Canal Flow Restoration

Authorized Agent:
Jones Edmunds
Amy L. Goodden, P.E., Project Engineer
AGoodden@jonesedmunds.com
730 NE Waldo Road
Gainesville, Florida 32641

Environmental Resource Permit – Individual

State-Owned Submerged Lands Authorization – Not Applicable

U.S. Army Corps of Engineers – Separate Authorization May Be Required

Permit No.: 0384808-001-EI

Oculus Facility-Site ID Search: [ERP 384808](#)

Permit Issuance Date: June 29, 2020
Permit Construction Expiration Date: June 29, 2025



FLORIDA DEPARTMENT OF Environmental Protection

Ron DeSantis
Governor

Jeanette Nuñez
Lt. Governor

Noah Valenstein
Secretary

CENTRAL DISTRICT OFFICE
3319 MAGUIRE BLVD., SUITE 232
ORLANDO, FLORIDA 32803

Environmental Resource Permit (ERP)
Permittee: SJRWMD
Attention: Ann Shortelle, Executive Director
Permit No.: 0384808-001-EI

PROJECT LOCATION

The activities authorized by this individual permit are located from southeast of West Hibiscus Boulevard and Evans Road, parcel identification number 28-37-05-00-264, to northeast of Columbia Lane and BJ Lane, parcel identification number 27-36-34-00-502, Melbourne, Brevard County, FL. The activities are located within the following Sections, Townships and Ranges:

Section	Township	Range		Section	Township	Range
5	28 South (S)	37 East (E)		31	27 S	37 E
6	28 S	37 E		36	27 S	36 E
1	28 S	36 E		35	27 S	36 E
2	28 S	36 E		34	27 S	36 E
3	28 S	36 E				

PROJECT DESCRIPTION & AUTHORIZATION

The permittee will be restoring the flow from M-1 Canal to the St. Johns River. The permittee is authorized to construct a weir at the M-1 Canal east of Evans Road, a pump station at the M-1 Canal near Dike Road, that will pump flow from the M-1 Canal to the previously permitted stormwater treatment system (STA), and a 24-inch stormwater force main. The STA was permitted under [SJRWMD ERP Permit Number 126163-3](#).

The activities authorized by this individual permit are depicted on Exhibit 1 and 2, attached.

There are no surface waters and floodplain impacts are not authorized.

Environmental Resource Permit

The Department has determined that the activity qualifies for an Environmental Resource Permit. Therefore, the Environmental Resource Permit is hereby granted, pursuant to Part IV of Chapter 373, Florida Statutes (F.S.), and Chapter 62-330, Florida Administrative Code (F.A.C.).

Sovereignty Submerged Lands Authorization

As staff to the Board of Trustees of the Internal Improvement Trust Fund (Board of Trustees), the Department has determined the activity is not on submerged lands owned by the State of Florida. Therefore, your project is not subject to the requirements of Chapter 253, F.S., or Chapter 18-21, F.A.C.

Federal Authorization

Your proposed activity as outlined on your application and attached drawings **does not qualify** for Federal authorization pursuant to the State Programmatic General Permit and a **SEPARATE permit** or authorization **may be required** from the U. S. Army Corps of Engineers. You must apply

separately to the Corps using the federal application form (ENG 4345). More information about Corps permitting may be found online in the Jacksonville District Regulatory Division Sourcebook. **Failure to obtain Corps authorization prior to construction could subject you to federal enforcement action by that agency.**

Authority for review - an agreement with the USACOE entitled “Coordination Agreement Between the U. S. Army Corps of Engineers (Jacksonville District) and the Florida Department of Environmental Protection, or Duly Authorized Designee, State Programmatic General Permit”, Section 10 of the Rivers and Harbor Act of 1899, and Section 404 of the Clean Water Act.

Coastal Zone Management

Issuance of this authorization also constitutes a finding of consistency with Florida's Coastal Zone Management Program, as required by Section 307 of the Coastal Zone Management Act.

Water Quality Certification

This permit also constitutes a water quality certification under Section 401 of the Clean Water Act, 33 U.S.C. 1341.

Other Authorizations

You are advised that authorizations or permits for this activity may be required by other federal, state, regional, or local entities including but not limited to local governments or municipalities. This permit does not relieve you from the requirements to obtain all other required permits or authorizations. (NOTE: If there are discharge points from the proposed stormwater management system, a National Pollutant Discharge Elimination System (NPDES) permit may be required.)

The activity described may be conducted only in accordance with the terms, conditions and attachments contained in this document. Issuance and granting of the permit and authorizations herein do not infer, nor guarantee, nor imply that future permits, authorizations, or modifications will be granted by the Department.

PERMIT CONDITIONS

The activities described herein must be conducted in accordance with:

- **The Specific Conditions**
- **The General Conditions**
- **The limits, conditions and locations of work shown in the attached drawings**
- **The term limits of this authorization**

You are advised to read and understand these conditions and drawings prior to beginning the authorized activities, and to ensure the work is conducted in conformance with all the terms, conditions, and drawings herein. If you are using a contractor, the contractor also should read and understand these conditions and drawings prior to beginning any activity. Failure to comply with these conditions, including any mitigation requirements, shall be grounds for the Department to revoke the permit and authorization and to take appropriate enforcement action. Operation of the facility is not authorized except when determined to be in conformance with all applicable rules and this permit, as described.

SPECIFIC CONDITIONS – PRIOR TO CONSTRUCTION

1. At least 48 hours prior to beginning the authorized activities, the permittee shall submit to the Agency a fully executed Form 62-330.350(1), “Construction Commencement Notice.” The construction commencement notice can be found on the following link: [Form 62-330.350\(1\)](#)
2. Best management practices for erosion control shall be implemented prior to construction commencement and shall always be maintained during construction to prevent siltation and turbid discharges in a manner that does not cause or contribute to violations of state water quality standards in accordance with 62-302, F.A.C.
3. Prior to construction, the limits of construction shall be clearly marked in a way which is visible and obvious to anyone performing work on-site, including someone operating heavy equipment. Orange construction fencing or tall flagged stakes along the construction limits are possible methods.
4. Prior to initiation of any work authorized by this permit, all wetlands, surface waters, and stormwater conveyances outside the specific limits of construction authorized by this permit shall be protected from erosion, siltation, sedimentation, and/or scouring, including the placement of staked erosion control devices around the project area and staging areas that are located outside of any authorized impact area.

SPECIFIC CONDITIONS – ADDITIONAL REGULATED ACTIVITIES

5. The permittee must obtain additional authorization from the Department prior to beginning construction and/or operation of any regulated activity described in 62-330.020, F.A.C not specifically authorized herein.

SPECIFIC CONDITIONS – DEWATERING

6. If dewatering is to occur at any time and discharge is to on-site or off-site surface waters of the State, either directly or via a stormwater management system, a generic permit in accordance with Rule 62-621.300, F.A.C., will be required prior to any dewatering.
7. If dewatering is to occur any time, a water use permit may be required from the South Florida Water Management District prior to beginning any dewatering in accordance with 40E-2.041, F.A.C.

SPECIFIC CONDITIONS – CONSTRUCTION ACTIVITIES

8. The permittee shall be responsible for ensuring erosion control devices/procedures are inspected and maintained daily during all phases of construction authorized by this permit until areas disturbed during construction are sufficiently stabilized to prevent erosion, siltation, and turbid discharges.
9. Staked filter cloth shall be positioned at the edge of the permitted fill slopes adjacent to wetlands to prevent turbid runoff and erosion.
10. A vegetative cover that stabilizes and prevents erosion of the fill material shall be established within 60 days of sodding or seeding. Turbidity barriers/erosion control devices shall be removed upon establishment of a substantial vegetative cover.

SPECIFIC CONDITIONS – FLORIDA FISH AND WILDLIFE (FWC)

11. Construction, operation and maintenance activities are to avoid adversely impacting or causing “take” of state listed species and other regulated species of fish and wildlife.

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

SPECIFIC CONDITIONS – POST ISSUANCE SUBMITTALS

12. All post-issuance submittals required by the Specific or General Conditions of this permit shall be provided to the Department in a digital format (via electronic mail, CD or DVD, or through a file transfer site) when practicable. The mailing address for the appropriate Department office is 3319 Maguire Boulevard, Suite 232, Orlando, Florida 32803-3767 and the electronic mail address is DEP_CD@dep.state.fl.us. All submittals shall include the project name and indicated permit number when referring to this project.

SPECIFIC CONDITIONS – STORMWATER MANAGEMENT SYSTEM (SWMS)

13. The following maintenance activities shall be performed, as necessary, on:
 - A. All permitted systems:
 - 1) Removal of trash and debris;
 - 2) Inspection of inlets and outlets;
 - 3) Removal of sediments when the storage volume or conveyance capacity of the stormwater management system is less than the permitted design; and
 - 4) Stabilization and restoration of eroded areas.
 - B. Retention, ditch, swale, and underdrain systems:
 - 1) Mowing and removal of grass clippings;
 - 2) Aeration, tilling, or replacement of topsoil; and
 - 3) Re-establishment of vegetation on disturbed surfaces.
 - C. Wet detention systems, if applicable:
 - 1) Replanting of natural vegetation within the littoral zone; and
 - 2) Control of nuisance and exotic vegetation.
14. In accordance with Section 373.416(2), F.S., unless revoked or abandoned, all stormwater management systems, dams, impoundments, reservoirs, appurtenant works, or works permitted under Part IV of Chapter 373, F.S., must be operated and maintained in perpetuity.
15. If the stormwater management system is not functioning as designed and permitted, operational maintenance must be performed immediately to restore the system. Within 30 days of any failure of the stormwater management systems or deviation from the permit, a report shall be submitted electronically or in writing to the Department using the enclosed “Operation and Maintenance Inspection Certification” [Form 62-330.311(1)] describing the remedial actions taken to resolve the failure or deviation. If operational maintenance measures are insufficient to

enable the system to meet the design and performance standards of this Chapter 62-330, F.A.C., the permittee must either replace the system or construct an alternative design. A permit modification must be obtained from the Department prior to constructing such an alternate design pursuant to Rule 62-330.315, F.A.C.

16. Upon completion of the permitted stormwater management systems, dams, reservoirs, impoundments, appurtenant work, or works, the Agency shall have periodic inspections made to ensure the project was constructed and is being operated in compliance with the terms and conditions of the permit, and in a manner that protects the public health and safety and the natural resources of the state. No person shall refuse immediate entry or access to any authorized representative of the District or DEP who requests entry for purposes of such inspection and presents appropriate credentials pursuant to Part 12.4 (b) of the Applicant's Handbook Volume I.
17. Inspections may be performed by Agency staff during and after construction. When needed to ensure a project is being operated and maintained in perpetuity, the permit may require the operation and maintenance entity to conduct the periodic inspections. The required inspection schedule for a specific project will be specified in the permit pursuant to Part 12.4 (c) of the Applicant's Handbook Volume I.
18. The efficiency of stormwater management systems decreases over time without periodic maintenance. For example, a significant reduction in the flow capacity of a stormwater management system often can be attributed to partial blockages of its conveyance system. Once flow capacity is compromised, flooding may result. Therefore, operation and maintenance entities must perform periodic inspections to identify if there are any deficiencies in structural integrity, degradation due to insufficient maintenance, or improper operation of projects that may endanger public health, safety, or welfare, or the water resources. If deficiencies are found, the operation and maintenance entity will be responsible for correcting the deficiencies so that the project is returned to the operational functions required in the permit and contemplated by the design of the project as permitted pursuant to Part 12.4 (e) of the Applicant's Handbook Volume I.
19. The operation and maintenance entity must maintain a record of each inspection, including the date of inspection, the name and contact information of the inspector, whether the system was functioning as designed and permitted, and make such record available upon request of the Agency pursuant to Section 12.4 (h) of Applicant's Handbook Volume I.

SPECIFIC CONDITIONS – CONSTRUCTED ACTIVITY

20. In accordance with 62-330.350(1)(q), F.A.C.; if the activity authorized within this permit is causing adverse water resource-related impacts, the Department will require the permittee to eliminate the cause, obtain any necessary permit modification, and take any necessary corrective actions to resolve the adverse impacts.

GENERAL CONDITIONS FOR INDIVIDUAL PERMITS

The following general conditions are binding on all Individual Permits issued under Chapter 62-330, F.A.C., except where the conditions are not applicable to the authorized activity, or where the conditions must be modified to accommodate project-specific conditions.

1. All activities shall be implemented following the plans, specifications and performance criteria approved by this permit. Any deviations must be authorized in a permit modification

in accordance with Rule 62-330.315, F.A.C. Any deviations that are not so authorized may subject the permittee to enforcement action and revocation of the permit under Chapter 373, F.S.

2. A complete copy of this permit shall be kept at the work site of the permitted activity during the construction phase, and shall be available for review at the work site upon request by the Agency staff. The permittee shall require the contractor to review the complete permit prior to beginning construction.
3. Activities shall be conducted in a manner that does not cause or contribute to violations of state water quality standards. Performance-based erosion and sediment control best management practices shall be installed immediately prior to, and be maintained during and after construction as needed, to prevent adverse impacts to the water resources and adjacent lands. Such practices shall be in accordance with the *State of Florida Erosion and Sediment Control Designer and Reviewer Manual (Florida Department of Environmental Protection and Florida Department of Transportation June 2007, <http://www.fdot.gov/roadway/drainage/files/Erosion-Sediment-Control.pdf>* and the *Florida Stormwater Erosion and Sedimentation Control Inspector's Manual (Florida Department of Environmental Protection, Nonpoint Source Management Section, Tallahassee, Florida, July 2008, <http://www.dep.state.fl.us/water/nonpoint/docs/erosion/erosion-inspectors-manual.pdf>)*, which are both incorporated by reference in subparagraph 62-330.050(9)(b)5., F.A.C., unless a project-specific erosion and sediment control plan is approved or other water quality control measures are required as part of the permit.
4. At least 48 hours prior to beginning the authorized activities, the permittee shall submit to the Agency a fully executed Form 62-330.350(1), "Construction Commencement Notice," [October 1, 2013], which is incorporated by reference in paragraph 62-330.350(1)(d), F.A.C., indicating the expected start and completion dates. A copy of this form may be obtained from the Agency, as described in subsection 62-330.010(5), F.A.C. If available, an Agency website that fulfills this notification requirement may be used in lieu of the form.
5. Unless the permit is transferred under Rule 62-330.340, F.A.C., or transferred to an operating entity under Rule 62-330.310, F.A.C., the permittee is liable to comply with the plans, terms and conditions of the permit for the life of the project or activity.
6. Within 30 days after completing construction of the entire project, or any independent portion of the project, the permittee shall provide the following to the Agency, as applicable:
 - a) For an individual, private single-family residential dwelling unit, duplex, triplex, or quadruplex – "Construction Completion and Inspection Certification for Activities Associated With a Private Single-Family Dwelling Unit" [Form 62-330.310(3)]; or
 - b) For all other activities – "As-Built Certification and Request for Conversion to Operational Phase" [Form 62-330.310(1)]. (See Specific Condition 2 regarding requirements for the submittal package.)
 - c) If available, an Agency website that fulfills this certification requirement may be used in lieu of the form.
7. If the final operation and maintenance entity is a third party:
 - a) Prior to sales of any lot or unit served by the activity and within one year of permit issuance, or within 30 days of as-built certification, whichever comes first, the permittee shall submit, as applicable, a copy of the operation and maintenance documents (see sections 12.3 thru 12.3.3 of Volume I) as filed with the Department of

State, Division of Corporations and a copy of any easement, plat, or deed restriction needed to operate or maintain the project, as recorded with the Clerk of the Court in the County in which the activity is located.

- b) Within 30 days of submittal of the as-built certification, the permittee shall submit “Request for Transfer of Environmental Resource Permit to the Perpetual Operation Entity” [Form 62-330.310(2)] to transfer the permit to the operation and maintenance entity, along with the documentation requested in the form. If available, an Agency website that fulfills this transfer requirement may be used in lieu of the form.
8. The permittee shall notify the Agency in writing of changes to the permitted activity required by any other regulatory agency. Any required modification of this permit must be obtained prior to implementing the changes.
 9. This permit does not:
 - a) Convey to the permittee any property rights or privileges, or any other rights or privileges other than those specified herein or in Chapter 62-330, F.A.C.;
 - b) Convey to the permittee or create in the permittee any interest in real property;
 - c) Relieve the permittee from the need to obtain and comply with any other required federal, state, and local authorization, law, rule, or ordinance; or
 - d) Authorize any entrance upon or work on property that is not owned, held in easement, or controlled by the permittee.
 10. Prior to conducting any activities on state-owned submerged lands or other lands of the state, title to which is vested in the Board of Trustees of the Internal Improvement Trust Fund, the permittee must receive all necessary approvals and authorizations under Chapters 253 and 258, F.S. Written authorization that requires formal execution by the Board of Trustees of the Internal Improvement Trust Fund shall not be considered received until it has been fully executed.
 11. The permittee shall hold and save the Agency harmless from any and all damages, claims, or liabilities that may arise by reason of the construction, alteration, operation, maintenance, removal, abandonment or use of any project authorized by the permit.
 12. The permittee shall notify the Agency in writing:
 - a) Immediately if any previously submitted information is discovered to be inaccurate; and
 - b) Within 30 days of any conveyance or division of ownership or control of the property or the system, other than conveyance via a long-term lease, and the new owner shall request transfer of the permit in accordance with Rule 62-330.340, F.A.C. This does not apply to the sale of lots or units in residential or commercial subdivisions or condominiums where the stormwater management system has been completed and converted to the operation phase.
 13. Upon reasonable notice to the permittee, Agency staff with proper identification shall have permission to enter, inspect, sample and test the project or activities to ensure conformity with the plans and specifications authorized in the permit.
 14. If any prehistoric or historic artifacts, such as pottery or ceramics, stone tools or metal implements, dugout canoes, or any other physical remains that could be associated with Native American cultures, or early colonial or American settlement are encountered at any time within the project site area, work involving subsurface disturbance in the immediate

vicinity of such discoveries shall cease. The permittee or other designee shall contact the Florida Department of State, Division of Historical Resources, Compliance and Review Section, at (850) 245-6333 or (800) 847-7278, as well as the appropriate permitting agency office. Such subsurface work shall not resume without verbal or written authorization from the Division of Historical Resources. If unmarked human remains are encountered, all work shall stop immediately and notification shall be provided in accordance with Section 872.05, F.S.

15. Any delineation of the extent of a wetland or other surface water submitted as part of the permit application, including plans or other supporting documentation, shall not be considered binding unless a specific condition of this permit or a formal determination under Rule 62-330.201, F.A.C., provides otherwise.
16. The permittee shall provide routine maintenance of all components of the stormwater management system to remove trapped sediments and debris. Removed materials shall be disposed of in a landfill or other uplands in a manner that does not require a permit under Chapter 62-330, F.A.C., or cause violations of state water quality standards.
17. This permit is issued based on the applicant's submitted information that reasonably demonstrates that adverse water resource-related impacts will not be caused by the completed permit activity. If any adverse impacts result, the Agency will require the permittee to eliminate the cause, obtain any necessary permit modification, and take any necessary corrective actions to resolve the adverse impacts.
18. A Recorded Notice of Environmental Resource Permit may be recorded in the county public records in accordance with subsection 62-330.090(7), F.A.C. Such notice is not an encumbrance upon the property.

NOTICE OF RIGHTS

This action is final and effective on the date filed with the Clerk of the Department unless a petition for an administrative hearing is timely filed under Sections 120.569 and 120.57, F.S., before the deadline for filing a petition. On the filing of a timely and sufficient petition, this action will not be final and effective until a subsequent order of the Department. Because the administrative hearing process is designed to formulate final agency action, the subsequent order may modify or take a different position than this action.

Petition for Administrative Hearing

A person whose substantial interests are affected by the Department's action may petition for an administrative proceeding (hearing) under Sections 120.569 and 120.57, F.S. Pursuant to Rules 28-106.201 and 28-106.301, F.A.C., a petition for an administrative hearing must contain the following information:

- (a) The name and address of each agency affected and each agency's file or identification number, if known;
- (b) The name, address, any e-mail address, any facsimile number, and telephone number of the petitioner, if the petitioner is not represented by an attorney or a qualified representative; the name, address, and telephone number of the petitioner's representative, if any, which shall be the address for service purposes during the course of the proceeding; and an explanation of how the petitioner's substantial interests will be affected by the agency determination;
- (c) A statement of when and how the petitioner received notice of the agency decision;

- (d) A statement of all disputed issues of material fact. If there are none, the petition must so indicate;
- (e) A concise statement of the ultimate facts alleged, including the specific facts that the petitioner contends warrant reversal or modification of the agency's proposed action;
- (f) A statement of the specific rules or statutes that the petitioner contends require reversal or modification of the agency's proposed action, including an explanation of how the alleged facts relate to the specific rules or statutes; and
- (g) A statement of the relief sought by the petitioner, stating precisely the action that the petitioner wishes the agency to take with respect to the agency's proposed action.

The petition must be filed (received by the Clerk) in the Office of General Counsel of the Department at 3900 Commonwealth Boulevard, Mail Station 35, Tallahassee, Florida 32399-3000, or via electronic correspondence at Agency_Clerk@dep.state.fl.us. Also, a copy of the petition shall be mailed to the applicant at the address indicated above at the time of filing.

Time Period for Filing a Petition

In accordance with Rule 62-110.106(3), F.A.C., petitions for an administrative hearing by the applicant and persons entitled to written notice under Section 120.60(3), F.S., must be filed within 21 days of receipt of this written notice. Petitions filed by any persons other than the applicant, and other than those entitled to written notice under Section 120.60(3), F.S., must be filed within 21 days of publication of the notice or within 21 days of receipt of the written notice, whichever occurs first. You cannot justifiably rely on the finality of this decision unless notice of this decision and the right of substantially affected persons to challenge this decision has been duly published or otherwise provided to all persons substantially affected by the decision. While you are not required to publish notice of this action, you may elect to do so pursuant Rule 62-110.106(10)(a).

The failure to file a petition within the appropriate time period shall constitute a waiver of that person's right to request an administrative determination (hearing) under Sections 120.569 and 120.57, F.S., or to intervene in this proceeding and participate as a party to it. Any subsequent intervention (in a proceeding initiated by another party) will be only at the discretion of the presiding officer upon the filing of a motion in compliance with Rule 28-106.205, F.A.C. If you do not publish notice of this action, this waiver may not apply to persons who have not received a clear point of entry.

Extension of Time

Under Rule 62-110.106(4), F.A.C., a person whose substantial interests are affected by the Department's action may also request an extension of time to file a petition for an administrative hearing. The Department may, for good cause shown, grant the request for an extension of time. Requests for extension of time must be filed with the Office of General Counsel of the Department at 3900 Commonwealth Boulevard, Mail Station 35, Tallahassee, Florida 32399-3000, or via electronic correspondence at Agency_Clerk@dep.state.fl.us, before the deadline for filing a petition for an administrative hearing. A timely request for extension of time shall toll the running of the time period for filing a petition until the request is acted upon.

Mediation

Mediation is not available in this proceeding.

FLAWAC Review

The applicant, or any party within the meaning of Section 373.114(1)(a) or 373.4275, F.S., may also seek appellate review of this order before the Land and Water Adjudicatory Commission under Section 373.114(1) or 373.4275, F.S. Requests for review before the Land and Water Adjudicatory Commission must be filed with the Secretary of the Commission and served on the Department within 20 days from the date when this order is filed with the Clerk of the Department.

Judicial Review

Once this decision becomes final, any party to this action has the right to seek judicial review pursuant to Section 120.68, F.S., by filing a Notice of Appeal pursuant to Florida Rules of Appellate Procedure 9.110 and 9.190 with the Clerk of the Department in the Office of General Counsel (Station #35, 3900 Commonwealth Boulevard, Tallahassee, Florida 32399-3000) and by filing a copy of the Notice of Appeal accompanied by the applicable filing fees with the appropriate district court of appeal. The notice must be filed within 30 days from the date this action is filed with the Clerk of the Department.

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EXECUTION AND CLERKING

Executed in Orlando, Florida.

STATE OF FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION



Erin Rasnake, Program Administrator
Permitting and Waste Cleanup Program
Central District

Attachments:

- Exhibit 1: 0385344-001-EI Location Figures, 4 pages
- Exhibit 2: 0385344-001-EI Engineering Drawings, 75 pages
- Exhibit 3: [Internet Link to SJRWMD ERP 126163-3 Permitting Files](#)
- Exhibit 4: [Oculus Link to 0385344 Permitting Files](#)
- Exhibit 5: See the links below for the 62-330 Forms,
[Link to the Construction Commencement Notice/Form 62-330.350\(1\)](#)
[Link to the As-built Certification and Request for Conversion to Operational Phase/Form 62-330.310\(1\)](#)
[Link to the Operation and Maintenance Inspection Certification/Form 62-330.311\(1\)](#)
[Link to the Request to Transfer Permit/Form 62-330.340\(1\)](#)
[Link to the Recorded Notice of Environmental Resource Permit/Form 62-330.090\(1\)](#)

CERTIFICATE OF SERVICE

The undersigned duly designated deputy clerk hereby certifies that this permit and all copies were sent on the filing date below to the following listed persons:

Jenni Lamb, Deputy City Manager, Jenni.Lamb@mlbfl.org
John Denninghoff, Brevard County, John.Denninghoff@brevardfl.gov
Lee Ann McCullough, Brevard County, LeeAnn.McCullough-Wham@brevardfl.gov
Richard Koller, SJRWMD, RKoller@jonesedmunds.com
Marc Van Heden, SJRWMD, MVanHede@sjrwmd.com
Julie Green, SJRWMD, JGreen@sjrwmd.com
Erin Rasnake, FDEP, Erin.Rasnake@FloridaDEP.gov
Reggie Phillips, FDEP, Reggie.Phillips@FloridaDEP.gov
Leo Angleró, FDEP, Leo.Anglero@FloridaDEP.gov
Dan Shideler, FDEP, Dan.Shideler@FloridaDEP.gov
Megan Warr, FDEP, Megan.Warr@FloridaDEP.gov
Michelle R. Pasawicz, FFWCC, Michelle.Pasawicz@MyFWC.com

FILING AND ACKNOWLEDGMENT

FILED, on this date, pursuant to Section 120.52(7), F.S., with the designated Department clerk, receipt of which is hereby acknowledged.



Clerk

June 26, 2020

Date

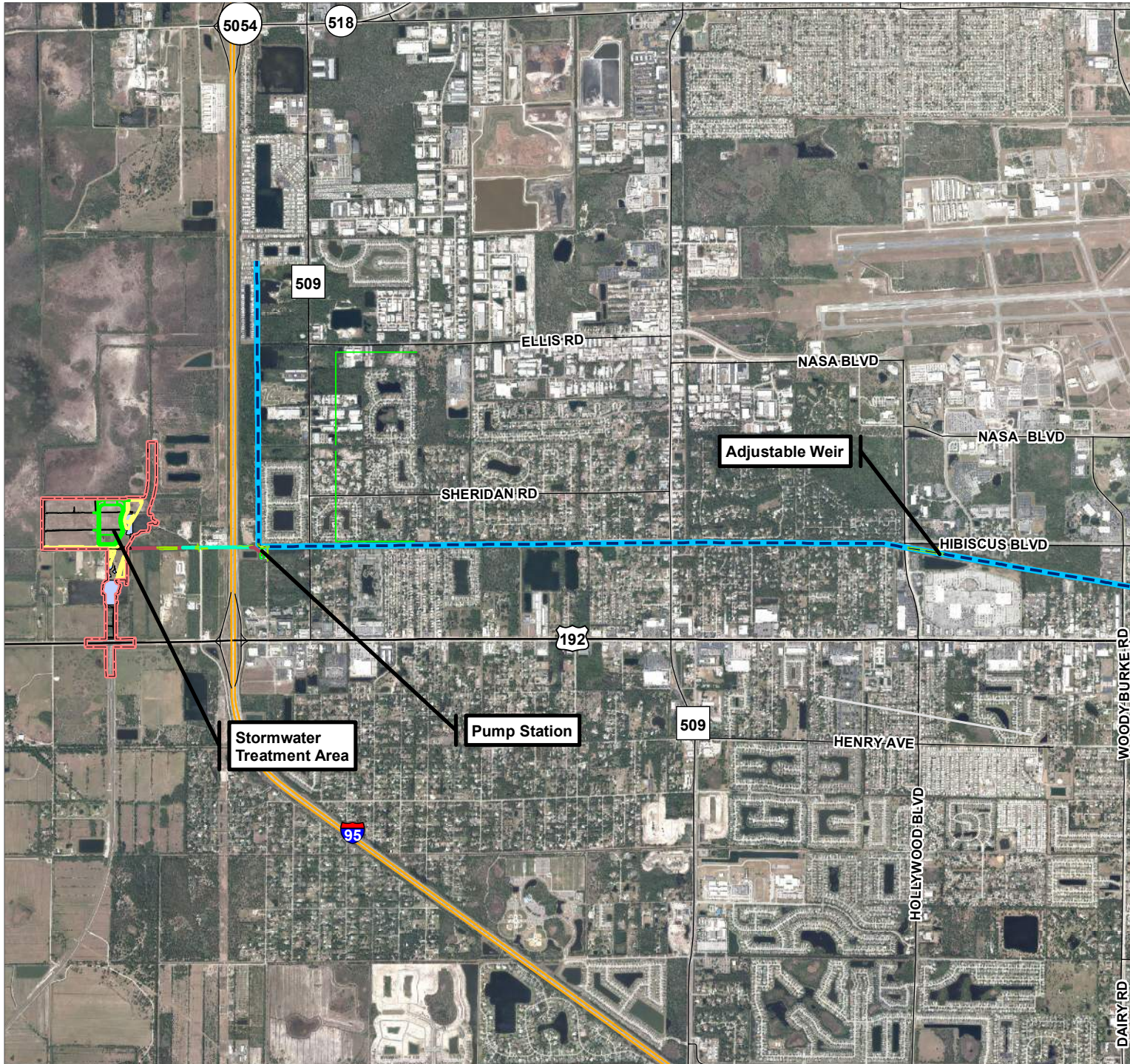


Figure 1
Project Overview Map
M-1 Canal Flow Restoration



- Legend**
- M1 Canal
 - Heritage Parkway Permit Boundary
 - Proposed Pond Grading

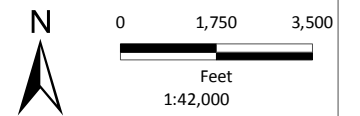
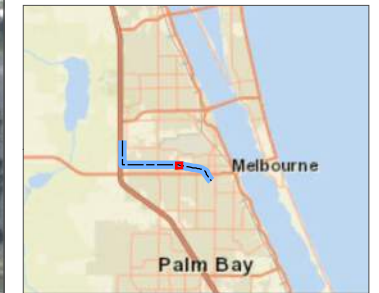
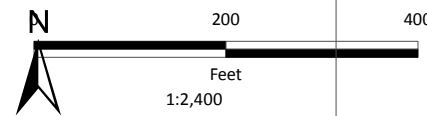




Figure 2
Weir Overview Map
M-1 Canal Flow Restoration



- Legend**
- M1 Canal
 - Wetlands
 - Wetland Polygons



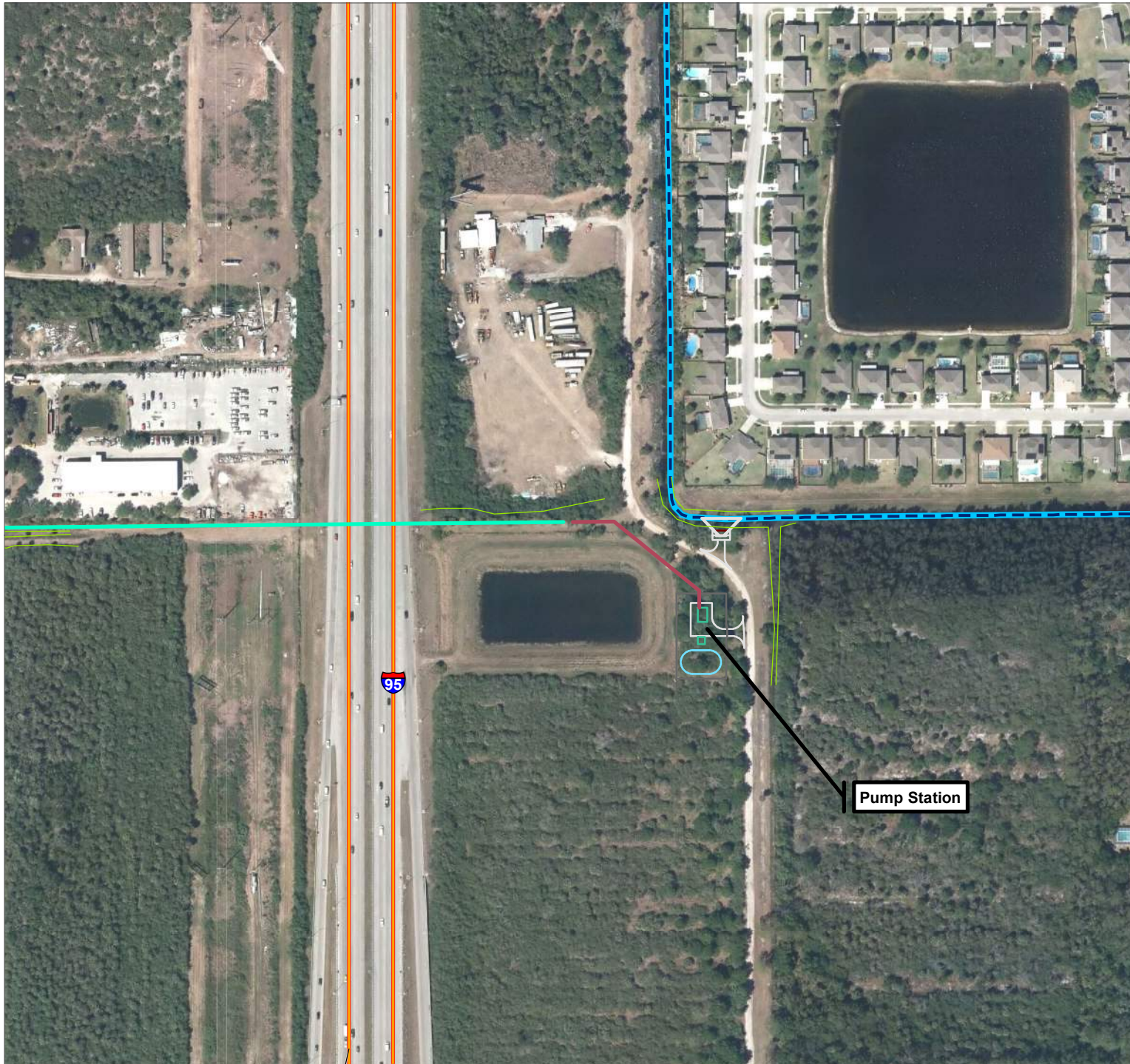
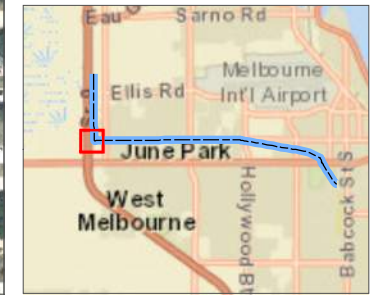
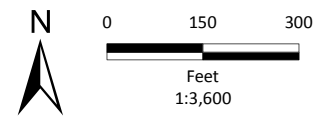


Figure 3
Pump Station
 M-1 Canal Flow Restoration



- Legend**
- — — M1 Canal
 - — — Delineated Wetlands
 - — — Pavement, Concrete
 - — — Road
 - — — Building
 - — — Fence
 - - - Fence Gate
 - — — Pond
 - — — Structural Concrete
 - — — Structural Steel
 - — — Force Main-HDD
 - — — Force Main-Open Cut
 - — — Heritage Parkway Stormwater Grading
 - — — Heritage Parkway Permit Boundary



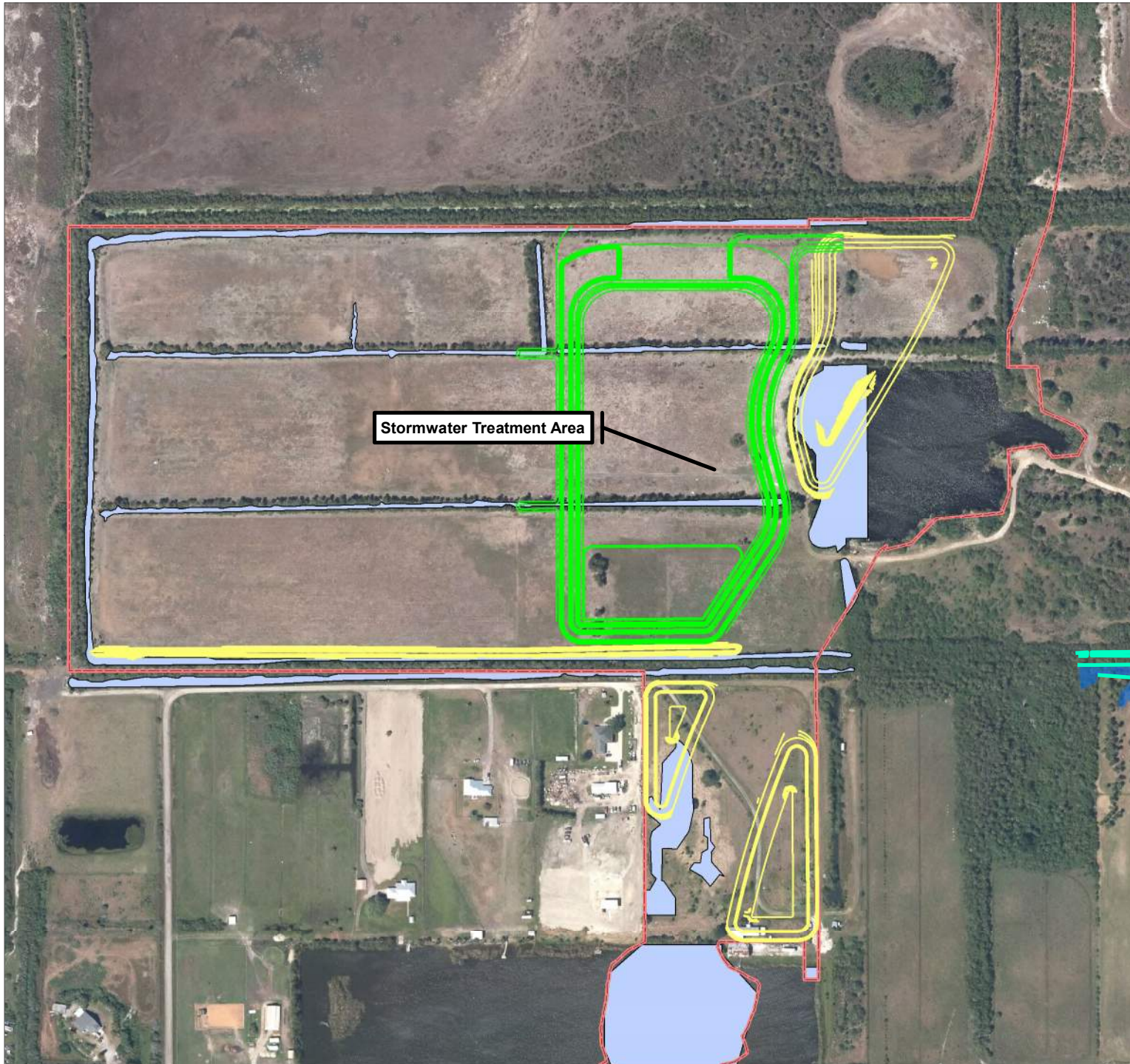
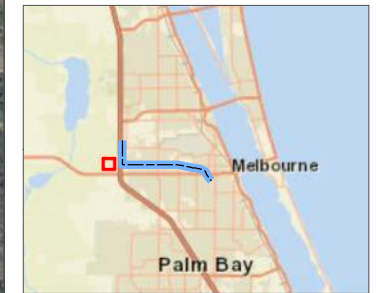










Figure 4
Stormwater Treatment Area
M-1 Canal Flow Restoration



Legend

-  M1 Canal
-  Wetlands
-  Wetland Polygons
-  Heritage Parkway Permit Boundary
-  Heritage Parkway Stormwater Grading
-  Heritage Parkway Stormwater Grading
-  Heritage Parkway Stormwater Grading
-  Proposed Pond Grading



22x34

CRANE CREEK M-1 CANAL FLOW RESTORATION

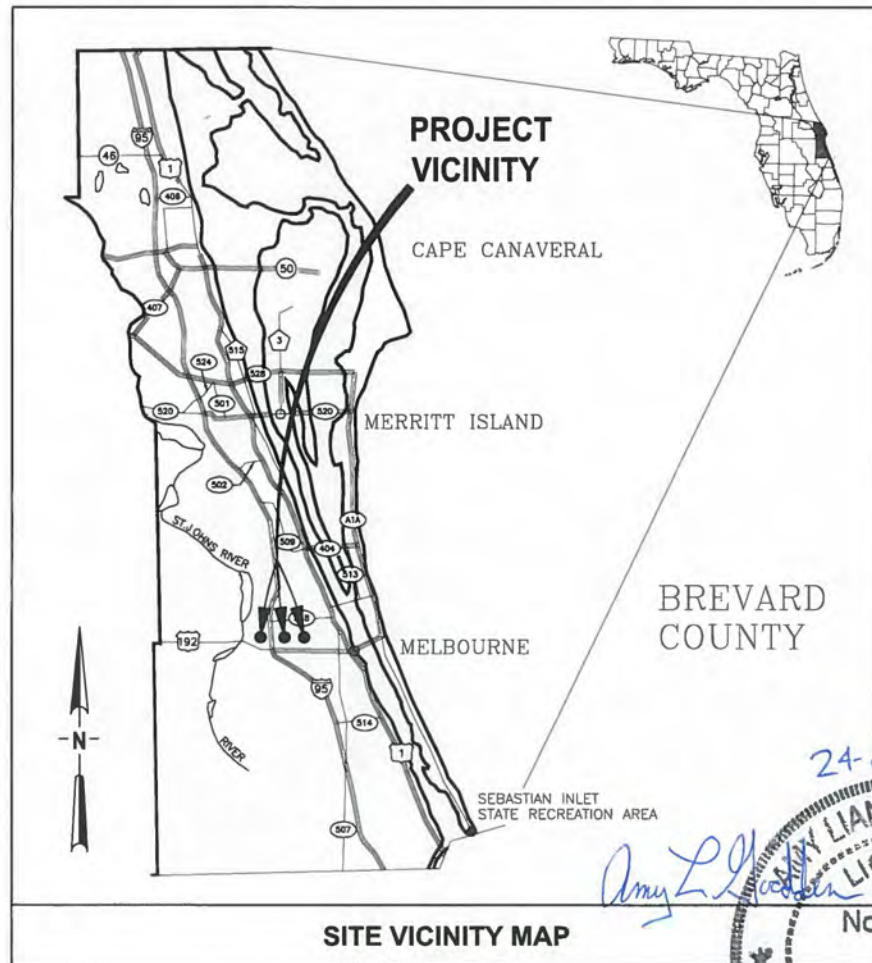
PREPARED FOR:
ST. JOHNS RIVER
WATER MANAGEMENT
DISTRICT



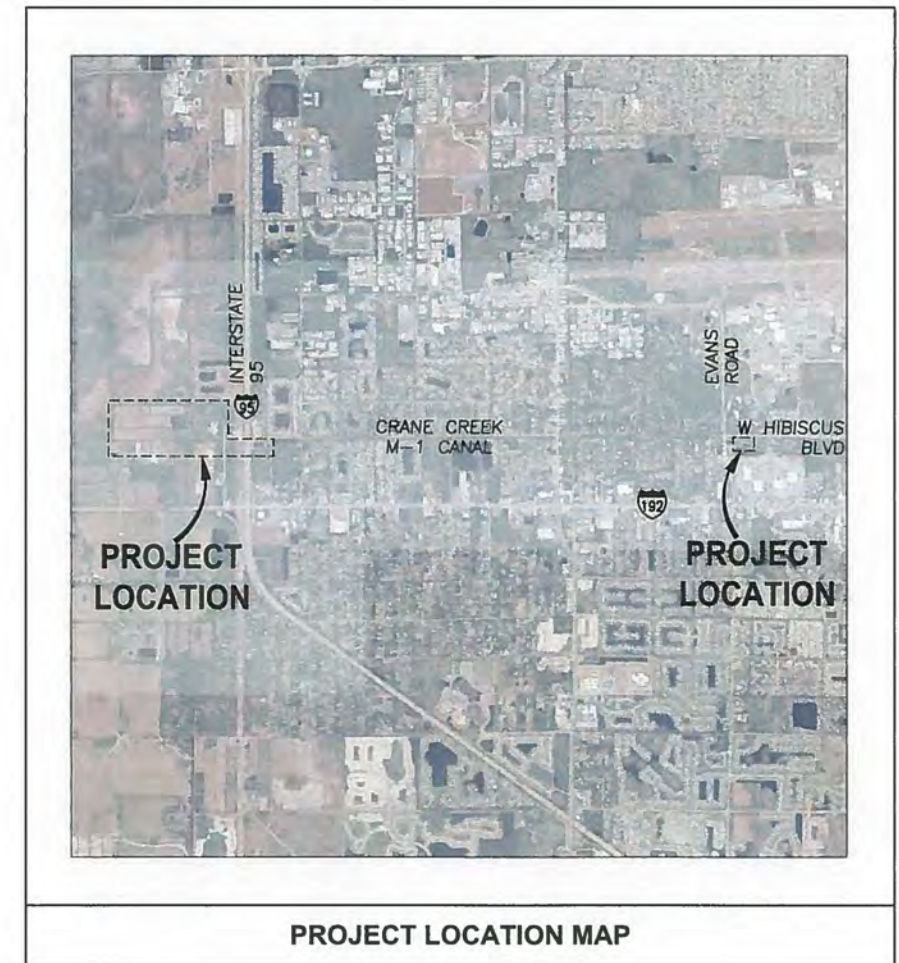
PREPARED BY:

JonesEdmunds

CERTIFICATE OF AUTHORIZATION #1841
730 NE WALDO ROAD, GAINESVILLE, FLORIDA 32641 / (352) 377-5821



SITE VICINITY MAP



PROJECT LOCATION MAP



LTR.	DATE	REVISIONS	BY	APPRD.
A	12/20/19	REVISED PER COWM	RK	RK

CONTRACT NO: 32116
PROJECT NO: 19750-066-01

NOT FOR CONSTRUCTION

DECEMBER 2019

LAST SAVED: 12/23/2019 3:16 PM BY: DHAUBRICH PLOTTED: 1/20/2020 11:47 AM BY: DEAN HAUBRICH

PLOTTED: 1/28/2020 10:29 AM DEAN HAUBRICH

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G4	CIVIL LEGEND
G5	MECHANICAL LEGEND & PIPE SCHEDULE
G6	ELECTRICAL LEGEND
G7	STRUCTURAL GENERAL NOTES
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C3-1	STORMWATER FORCE MAIN PLAN & PROFILE
C3-2	STORMWATER FORCE MAIN PLAN & PROFILE
C3-3	STORMWATER FORCE MAIN - DETAILS
C3-4	STORMWATER FORCE MAIN - DETAILS
PIPELINE - JONES EDMUNDS: MECHANICAL	
M3-1	HORIZONTAL DIRECTIONAL DRILL DETAILS
PUMP STATION: CIVIL	
C4-1	PUMP STATION SITE PLAN

C4-2	PUMP STATION GRADING PLAN
C4-3	PUMP STATION GEOMETRIC CONTROL PLAN
C4-6	PUMP STATION INTAKE PLAN & SECTIONS
C4-7	CIVIL DETAILS
C4-8	CIVIL DETAILS
C4-9	CIVIL DETAILS
PUMP STATION: EROSION CONTROL	
EC4-1	DEWATERING & EROSION CONTROL PLAN
EC4-2	STORMWATER POLLUTION PREVENTION NOTES
EC4-3	EROSION CONTROL NOTES AND DETAILS
PUMP STATION: MECHANICAL	
M4-1	PUMP STATION PLAN
M4-2	PUMP STATION SECTIONS
M4-3	PUMP STATION DETAILS
M4-4	PUMP STATION DETAILS
PUMP STATION: STRUCTURAL	
S4-1	
S4-2	SECTIONS AND DETAILS
PUMP STATION: ELECTRICAL	
E4-1 (E-2)	
E4-2 (E-3)	PUMP STATION ONE LINE DIAGRAM
E4-3 (E6)	PUMP STATION ELECTRICAL DETAILS
E4-4 (E5)	POWER CONTROL WIRING DIAGRAM
E4-5 (E8)	ELECTRICAL DETAILS
E4-6 (E9)	ELECTRICAL DETAILS
WEIR: DEMOLITION	
D5-1	
WEIR: CIVIL	
C5-1	
C5-2	WEIR SITE PLAN
C5-3	WEIR GRADING PLAN
C5-4	WEIR GEOMETRIC CONTROL TABLE
C5-5	WEIR CROSS SECTIONS
C5-6	WEIR PROFILE
C5-7	WEIR DETAILS
C5-8	ACCESS DETAILS
C5-9	STILLING WELL DETAILS
WEIR: EROSION CONTROL	
EC5-1	EROSION CONTROL PLAN - WEIR
EC5-2	STORMWATER POLLUTION PREVENTION NOTES - WEIR
EC5-3	EROSION CONTROL NOTES AND DETAILS - WEIR
WEIR: STRUCTURAL	
S5-1	
S5-2	WEIR SECTIONS AND DETAILS
S5-3	WEIR SECTIONS AND DETAILS
WEIR: ELECTRICAL	
E5-1 (E-1)	WEIR ELECTRICAL SITE PLAN
E5-2 (E4)	WEIR STATION ONE LINE DIAGRAM
E5-3 (E7)	WEIR STATION ELECTRICAL DETAILS

ABBREVIATIONS

⊙	AT	HWL	HIGH WATER LEVEL	TOC	TOP OF CONCRETE
&	AND	ID	INSIDE DIAMETER	TOS	TOE OF SLOPE
AASHTO	AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS	IE	INVERT ELEVATION	TS	THICKENED SLAB
ADF	AVERAGE DAILY FLOW	IF	INSULATED FLANGE	TYP	TYPICAL
ADJ	ADJUSTABLE	IPS	IRON PIPE SIZE	ULC	ULTRASONIC LEVEL CONTROLLER
ALUM	ALUMINUM	JT	JOINT	VERT	VERTICAL
ALT	ALTERNATIVE	LB	POUND	W	WEST
AISI	AMERICAN IRON STEEL INSTITUTE	LBR	LIMEROCK BEARING RATIO	W/	WITH
AMPS	AMPERES	LF	LINEAR FEET	WM	WATER MAIN
ANSI	AMERICAN NATIONAL STANDARDS INSTITUTE	LIDAR	LIGHT DETECTION AND RANGING	WSE	WATER SURFACE ELEVATION
AR	AIR RELEASE	LOC	LIMITS OF CONSTRUCTION	WT	WEIGHT
ASTM	AMERICAN SOCIETY FOR TESTING AND MATERIALS	LR	LONG RADIUS	WWF	WELDED WIRE FABRIC
AV	AIR VACUUM	LWL	LOW WATER LEVEL	YR	YEAR
AWWA	AMERICAN WATER WORKS ASSOCIATION	M/F	MALE/FEMALE		
BLD	BLIND	MAX	MAXIMUM		
BLDG	BUILDING	MES	MITERED END SECTION		
BF	BLIND FLANGE	MFR	MANUFACTURER		
BFP	BACKFLOW PREVENTOR	MH	MANHOLE		
BFV	BUTTERFLY VALVE	MIN	MINIMUM		
BMP	BEST MANAGEMENT PRACTICES	MJ	MECHANICAL JOINT		
BO	BLOW-OFF	MNPT	MALE NATIONAL PIPE THREAD		
BTM	BOTTOM	N	NORTH		
BTM/	BOTTOM OF	NAD	NORTH AMERICAN DATUM		
BV	BALL VALVE	NAVD	NORTH AMERICAN VERTICAL DATUM		
BW	BLENDED WATER	NC	NORMALLY CLOSED		
BYP	BY-PASS	NEC	NATIONAL ELECTRIC CODE		
CB	CENTER OF DITCH/POND	NHW	NORMAL HIGH WATER		
CD	CENTER OF DITCH	NIC	NOT IN CONTRACT		
CEN	CENTER	NLW	NORMAL LOW WATER		
CL, C	CENTERLINE	No, #	NUMBER		
CC	CENTER TO CENTER	NOM	NOMINAL		
CI	CAST IRON	NPT	NATIONAL PIPE THREAD		
CO	CLEAN OUT	NRS	NONRISING STEM		
CIP	CAST IRON PIPE	NTS	NOT TO SCALE		
CISP	CAST IRON SLIP PIECE	NSF	NATIONAL SANITATION FOUNDATION		
CJ	CONSTRUCTION JOINT	NW	NORTHWEST		
CLR	CLEAR	OC	ON CENTER		
CMF	CONCRETE MONUMENT, FOUND	OD	OUTSIDE DIAMETER		
CMP	CORRUGATED METAL PIPE	OHE	OVERHEAD ELECTRIC		
CONSTR	CONSTRUCTION	OS&Y	OUTSIDE STEM & YOKE		
CONT	CONTINUOUS	OSHA	OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION		
CONC	CONCRETE	PE	PLAIN END		
CON	CONCENTRIC	PI	PRESSURE INDICATOR/GAUGE		
CORP	CORPORATION	PL	PLATE		
CS	CARBON STEEL	P/L	PROPERTY LINE		
CV	CHECK VALVE	PP	POWER POLE		
DIA, Ø	DIAMETER	PRV	PRESSURE REDUCING VALVE		
DBI	DITCH BOTTOM INLET	PSF	POUNDS PER SQUARE FOOT		
DI	DUCTILE IRON	PSI	POUNDS PER SQUARE INCH		
DIV	DIVISION	PV	PLUG VALVE		
DWG	DRAWING	PVC	POLYVINYL CHLORIDE		
EA	EACH	PVMT	PAVEMENT		
ECC	ECCENTRIC	R	RADIUS		
EF	EACH FACE	RCP	REINFORCED CONCRETE PIPE		
EG	SUCH AS	RED	REDUCER		
EL	ELEVATION	REINF	REINFORCED		
ELB	ELBOW	REQ, REQ'D	REQUIRED		
EOP	EDGE OF PAVEMENT	RF	REDUCING FLANGE		
E/R	EDGE OF ROAD	RJ	RESTRAINED JOINT		
EW	EACH WAY	RPM	REVOLUTIONS PER MINUTE		
FAB	FABRICATED	RPOJ	RESTRAINED PUSH ON JOINT		
FAC	FLORIDA ADMINISTRATIVE CODE	RST	REGIONAL STORMWATER TREATMENT		
FCA	FLANGED COUPLING ADAPTER	RTU	REMOTE TELEMETRY UNIT		
FCV	FLOW CONTROL VALVE	RW	RAW WATER		
FDOT	FLORIDA DEPARTMENT OF TRANSPORTATION	ROW	RIGHT-OF-WAY		
F/F	FINISHED FLOOR	S	SOUTH		
FG	FIBERGLASS	SAN	SANITARY		
FIN	FINISHED	SCH	SCHEDULE		
FJ	FLANGE JOINT	SE	SOUTHEAST		
FL	FLOOR	SEC	SHOULDERED-END COUPLING		
FLEX	FLEXIBLE	SIM	SIMILAR		
FLG	FLANGE(D)	SURWMD	ST. JOHNS RIVER WATER MANAGEMENT DISTRICT		
FM	FORCE MAIN	SP	STANDARD PLANS (FDOT)		
FND	FOUNDATION	SQ	SQUARE		
FNPT	FEMALE NATIONAL PIPE THREAD	SR	SURGE RELIEF		
FRP	FIBER REINFORCED PLASTIC	SRV	SURGE RELIEF VALVE		
FS	FLORIDA STATUTES	SS, SST	STAINLESS STEEL		
GALV	GALVANIZED	STA	STORMWATER TREATMENT AREA		
GPM	GALLONS PER MINUTE	STD	STANDARD		
GR	GRADE	STRUC	STRUCTURE		
GRU	GAINESVILLE REGIONAL UTILITIES	STL	STEEL		
GS	GALVANIZED STEEL	STS	STORMWATER SYSTEM		
GV	GATE VALVE	SY	SQUARE YARD		
HDPE	HIGH DENSITY POLYETHYLENE	TBM	TEMPORARY BENCHMARK		
HORIZ	HORIZONTAL	TH	TOTAL HEAD		
HP	HORSEPOWER	THD	THREADED		
HR	HOUR	THK	THICK		
		TOB	TOP OF BERM		

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DRAWN	D HAUBRICH
CHECKED	R KOLLER
DATE	12/20/19
REVISIONS	
BY	
APPROV	

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 730 NE WALDO ROAD, GAINESVILLE, FLORIDA 32641 / (352) 377-5821
 8657 BAYPINE ROAD SUITE 300, JACKSONVILLE, FL 32256 / (904) 744-5401

CRANE CREEK M-1 CANAL FLOW RESTORATION
ST. JOHN'S RIVER WATER MANAGEMENT DISTRICT

DRAWING INDEX & ABBREVIATIONS

CERTIFICATE OF AUTHORIZATION #1841	PROJECT NO:	DATE:
APPROVED BY	19750-066-01	DEC 2019
A. GOODDEN	INDEX NO:	DWG NO:
P.E. # 60097		G2

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GENERAL NOTES

1. TOPOGRAPHIC SURVEY INFORMATION FOR ALL AREAS EXCEPT THE STA SITE WAS PROVIDED BY SOUTHEASTERN SURVEYING AND MAPPING CORPORATION, A REGISTERED PROFESSIONAL LAND SURVEYOR, DATED NOVEMBER 21 2018. THE SURVEYOR'S DRAWINGS ARE INCLUDED IN THIS DRAWING SET. STA SITE TOPOGRAPHIC SURVEY INFORMATION IS LIDAR DATA PROVIDED BY BREVARD COUNTY.
2. THE HORIZONTAL DATUM IS BASED ON FLORIDA STATE PLANE EAST, NORTH AMERICAN DATUM 1983 (NAD83), 2011 ADJUSTMENT. VERTICAL INFORMATION SHOWN REFERS TO NATIONAL GEODETIC SURVEY (NGS) POINT PID#DG8680 HAVING A RECORDED ELEVATION OF 22.98 FEET (NAVD 88).
3. INFORMATION SHOWN HEREIN REPRESENTS CONDITIONS AS THEY EXISTED ON THE SURVEY DATE SHOWN AND CAN ONLY BE CONSIDERED INDICATIVE OF CONDITIONS AT THAT TIME.
4. ALL DISTURBED AREAS SHALL BE RESTORED TO ORIGINAL OR BETTER CONDITION INCLUDING BUT NOT LIMITED TO SOD, LANDSCAPING, ETC. NEW SOD SHALL MATCH ADJACENT SOD OR IF NONE IS PRESENT IT SHALL BE A BAHIA/ BERMUDA MIX.
5. EXISTING DRAINAGE STRUCTURES WITHIN CONSTRUCTION LIMITS SHALL REMAIN, UNLESS OTHERWISE NOTED.
6. EXISTING PAVEMENTS DAMAGED DUE TO CONSTRUCTION ARE TO BE REPLACED IN-KIND AT THE SAME LOCATION, WIDTH, AND GEOMETRY UNLESS OTHERWISE SHOWN IN THE PLANS. CONTRACTOR SHALL RECONSTRUCT ROADWAY AND DRIVEWAY PAVEMENT TO EXISTING GRADES UNLESS OTHERWISE SPECIFIED.
7. CONTRACTOR WILL REMOVE BURIED OUT OF SERVICE UTILITY LINES WITHIN THE LIMITS OF ALL EXCAVATION. THE COST OF THIS WORK WILL BE INCIDENTAL TO AND INCLUDED IN THE COST OF THE WORK BEING PERFORMED WHEN THE LINES ARE ENCOUNTERED.
8. ALL EXISTING UTILITIES ARE TO REMAIN IN PLACE UNLESS OTHERWISE NOTED. CONTRACTOR TO PROTECT ALL EXISTING UTILITIES DURING CONSTRUCTION. CONTRACTOR SHALL VERIFY THE LOCATION OF ALL UTILITIES PRIOR TO CONSTRUCTION.
9. THE LOCATION(S) OF THE UTILITIES SHOWN IN THE PLANS ARE BASED ON LIMITED INVESTIGATION TECHNIQUES AND SHOULD BE CONSIDERED APPROXIMATE ONLY. THE VERIFIED LOCATIONS/ELEVATIONS APPLY ONLY AT THE POINTS SHOWN. INTERPOLATIONS BETWEEN THESE POINTS HAVE NOT BEEN VERIFIED.
10. THE CONTRACTOR SHALL NOTIFY UTILITY OWNERS THROUGH SUNSHINE ONE CALL OF FLORIDA, INC. (1-800-432-4770) TWO BUSINESS DAYS IN ADVANCE OF BEGINNING CONSTRUCTION ON THE JOB SITE.
11. CONTRACTOR SHALL NOTIFY SJRWMD IMMEDIATELY UPON DISCOVERY OF ANY ERRORS OR OMISSIONS IN CONSTRUCTION PLANS.
12. DISPOSAL OF ALL EXCESS EARTHWORK MATERIALS IS THE RESPONSIBILITY OF THE CONTRACTOR. DISPOSAL SITES SHALL BE AS DIRECTED BY SJRWMD.
13. CONTRACTOR SHALL COMPLY WITH ALL PROVISIONS OF THE FLORIDA STATE TRENCH SAFETY ACT.
14. CONTRACTOR SHALL OBTAIN A TEMPORARY DEWATERING PERMIT PRIOR TO ANY DEWATERING ACTIVITIES. CONTRACTOR SHALL SUBMIT DEWATERING PLAN TO SJRWMD FOR APPROVAL. DURING DEWATERING OPERATIONS, CONTRACTOR SHALL NOT DISCHARGE DIRECTLY TO EXISTING WETLAND SYSTEMS, CANALS OR DITCHES.
15. CONTRACTOR TO ESTABLISH ALL LINES, GRADES, AND REFERENCE POINTS AS REQUIRED FOR WORK UNDER THIS CONTRACT. ALL PROJECT LAYOUTS SHALL BE DONE USING A PROFESSIONAL SURVEYOR & MAPPER LICENSED IN THE STATE OF FLORIDA.
16. CONTRACTOR TO PROVIDE ALL LABOR, INSTRUMENTS, STAKES AND OTHER MATERIALS NECESSARY FOR MARKING AND MAINTAINING ALL LINES AND GRADE.
17. ALL EXISTING TREES OUTSIDE THE GRADING LIMITS ARE TO REMAIN.
18. CONTRACTOR SHALL KEEP ALL SPOILS AND EQUIPMENT OUTSIDE OF THE TREE DRIPLINE FOR ALL TREES NOT DIRECTLY AFFECTED BY CONSTRUCTION.
19. BURNING OF MATERIAL AND/OR DEBRIS IS PROHIBITED WITHIN THE PROJECT LIMITS. THE CONTRACTOR SHALL LEGALLY DISPOSE OF ALL CLEARED/GRUBBED MATERIAL OFFSITE.
20. UNLESS OTHERWISE SPECIFIED ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH FDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION (2018), AND FDOT DESIGN PLANS (2019-20).
21. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING A STAGING AREA FOR MATERIAL AND EQUIPMENT STORAGE. THIS MAY INCLUDE LOCATING A SITE, OBTAINING PERMITS, AND MAKING THE SITE SUITABLE FOR USE. THE CONTRACTOR SHALL NOT USE RIGHT-OF-WAY FOR STAGING MATERIAL AND EQUIPMENT.
22. THE CONTRACTOR SHALL PROVIDE MATERIAL AND CONSTRUCTION TESTING BY A FLORIDA QUALIFIED GEOTECHNICAL TESTING FIRM. ACCEPTANCE TESTING INCLUDES BUT IS NOT LIMITED TO CONCRETE, ROADWAY STABILIZATION AND BASE, ASPHALT DENSITY, AND LIMEROCK.
23. AS-BUILT PLANS TO BE PROVIDED BY THE CONTRACTOR TO SJRWMD AND CERTIFIED BY A FLORIDA REGISTERED LAND SURVEYOR.
24. ANY EXISTING FENCING THAT IS DAMAGED OR TEMPORARILY REMOVED DURING CONSTRUCTION MUST BE REPLACED IN-KIND. CONTRACTOR TO COORDINATE WITH PROPERTY OWNER REGARDING ANY FENCE REMOVAL OR REPLACEMENT.
25. CONTRACTOR TO COORDINATE REMOVAL OF SALVAGE EQUIPMENT. PROVIDE SJRWMD MINIMUM OF 30 DAYS NOTICE TO REMOVE/RELOCATE EQUIPMENT.
26. THE CONTRACTOR WILL STABILIZE ALL EARTHWORK TO PREVENT EROSION.
27. ALL FLAT BERM TOPS WILL BE STABILIZED WITH SEED.
28. ALL SLOPES 4H:1V OR STEEPER SHALL BE STABILIZED WITH STAKED SOD.

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 1/24/2020 8:14 AM DHAUBRICH

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DRAWN	D HAUBRICH		
CHECKED	R KOLLER		
LTR.	DATE	REVISIONS	BY
A	12/20/19	REVISED PER CDM	RK

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**CRANE CREEK M-1 CANAL FLOW RESTORATION
 ST. JOHN'S RIVER WATER MANAGEMENT DISTRICT**

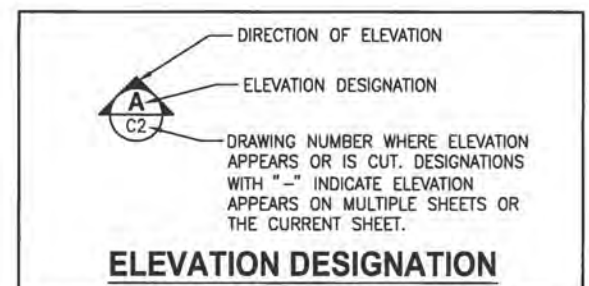
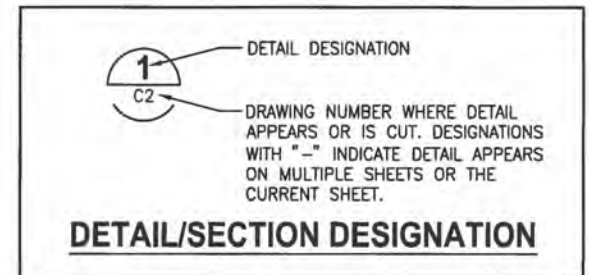
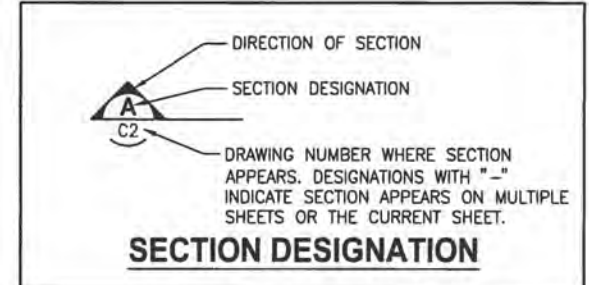
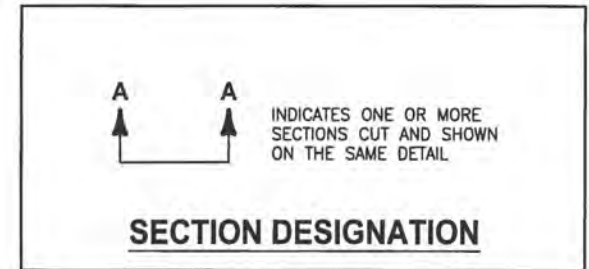
GENERAL NOTES

CERTIFICATE OF AUTHORIZATION #1841	PROJECT NO:	DATE:
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A. GOODDEN	INDEX NO:	DWG NO:
P.E. # 60097		G3

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LEGEND

	MATCHLINE		DRAINAGE PIPE W/MITERED END SECTION
	UTILITY EASEMENT		STORM PIPE/CULVERT
	RIGHT-OF-WAY BOUNDARY		MANHOLE
	CENTERLINE		ELEVATION TAG
	LIMITS OF CONSTRUCTION		WATER METER
	SILT FENCE		SOIL BORING
	TURBIDITY CURTAIN		BENCHMARK
	GRADE BREAK		POWER POLE
	WETLAND LINE		WATER LEVEL
	PROPOSED CONTOUR		EXISTING CONCRETE MONUMENT, FOUND
	EXISTING CONTOUR		SLOPE INDICATOR
	FENCE		ALIGNMENT LINE DATA
	STORMWATER FORCE MAIN (HORIZONTAL DIRECTIONAL DRILL)		ALIGNMENT CURVE DATA
	STORMWATER FORCE MAIN (OPEN CUT)		EXISTING SANITARY SEWER FORCE MAIN
	GRAVITY STORM PIPING		EXISTING POTABLE WATER MAIN
	REINFORCED CONCRETE PIPE (RCP)		
	DITCH BOTTOM INLET		
	MITERED END SECTION		
	STRUCTURE/PIPE DESIGNATION		
	STABILIZED DRIVE SURFACE		
	ASPHALT SURFACE		
	LIMITS OF MILLING AND RESURFACING		
	LIMEROCK		
	CROSS HATCHING INDICATES REMOVAL/DEMOLITION		
	CONCRETE		
	RIPRAP		
	HEDGE, BUSH, SHRUBS, WOODS		
	SPOT ELEVATION		
	PROPOSED SIGN		
	DRAWING DESIGNATION		
	COORDINATE POINT		
	DRAINAGE FLOW DIRECTION		



NOTES

1. IN GENERAL, EXISTING FACILITIES AND UTILITIES ARE NOTED AS EXISTING AND/OR SHOWN IN LIGHT LINE WEIGHT (SCREENED). PROPOSED CONSTRUCTION IS SHOWN IN HEAVY LINE WEIGHT AND/OR IDENTIFIED AS PROPOSED. SCREENING IS ALSO USED IN ORDER TO CLARIFY DRAWINGS. FOR EXAMPLE, STRUCTURES ARE SCREENED ON MECHANICAL DRAWINGS TO HIGHLIGHT PIPING AND EQUIPMENT. THIS DRAFTING CONVENTION IS TYPICAL THROUGHOUT THE SET OF PLANS.
2. THIS IS A STANDARD LEGEND DRAWING. SOME ITEMS MAY APPEAR IN LEGENDS AND NOT ON THE DRAWINGS.



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DESIGNED	A GOODDEN			
DRAWN	D HAUBRICH			
CHECKED	R KOLLER			
LTR.	DATE	REVISIONS	BY	APPRD.
A	2/20/19	REVISED PER COWM	RK	RK

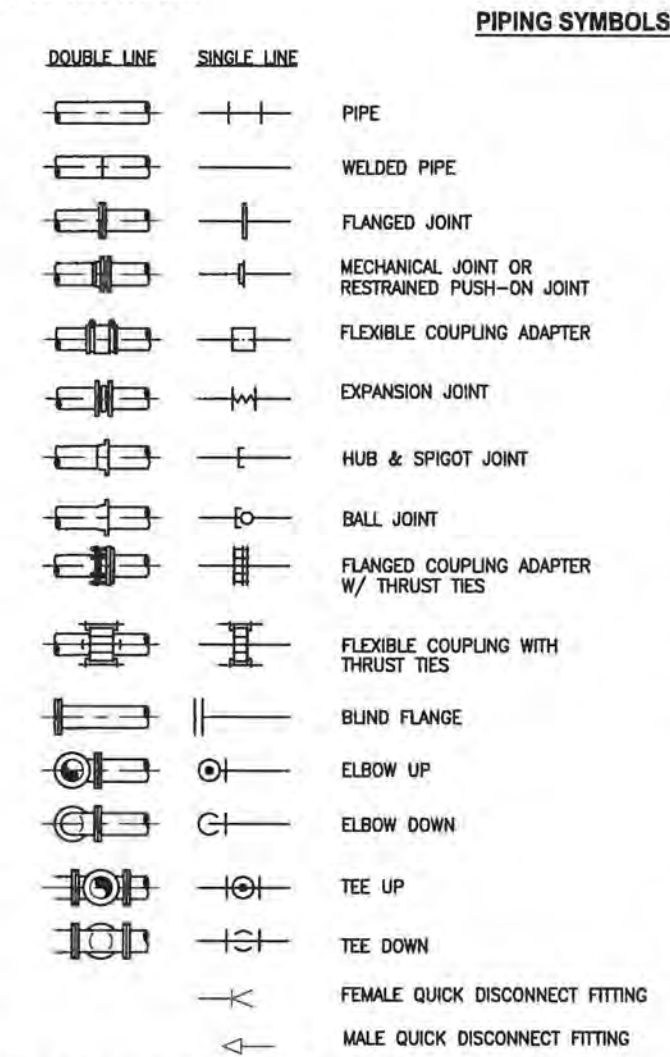
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CRANE CREEK M-1 CANAL FLOW RESTORATION
ST. JOHN'S RIVER WATER MANAGEMENT DISTRICT

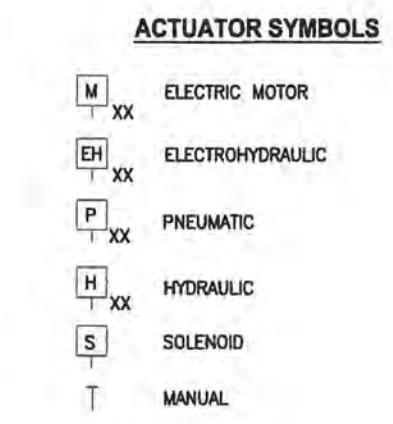
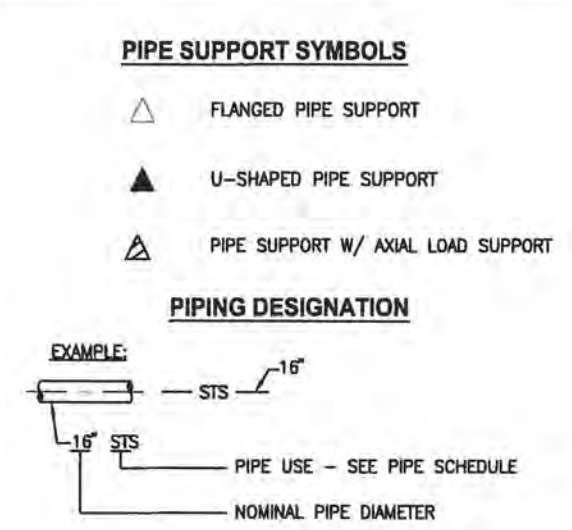
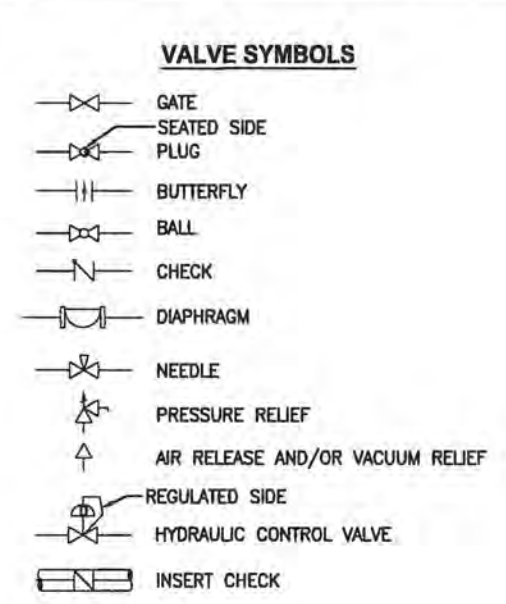
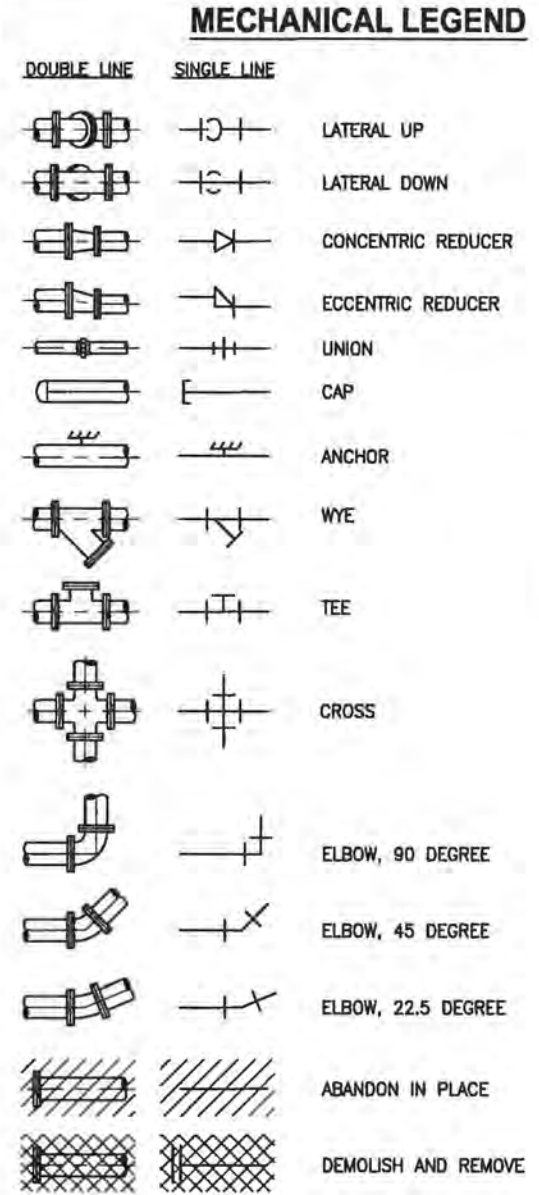
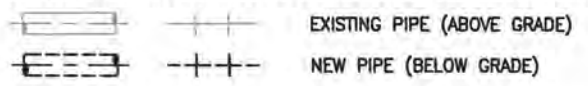
CIVIL LEGEND

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A. GOODDEN	INDEX NO:	DWG NO:
P.E. # 60097		G4

8 7 6 5 4 3 2 1
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NOTE:
 EXISTING PIPE AND EQUIPMENT ARE SHOWN IN THE DRAWINGS AS LIGHT-LINED AND/OR SCREENED. PROPOSED PIPE AND EQUIPMENT ARE SHOWN IN THE DRAWINGS AS HEAVY-LINED. ABOVE GRADE PIPE AND EQUIPMENT ARE SHOWN IN DRAWINGS AS SOLID-LINED EXCEPT FOR PIPELINE PLANS AND PROFILES. BELOW GRADE PIPE AND EQUIPMENT ARE SHOWN IN DRAWINGS AS DASHED-LINED. SEE BELOW EXAMPLES:



NOTE:
 ON LOSS OF PRIMARY POWER (PNEUMATIC, ELECTRICAL OR HYDRAULIC)
 XX: FO = FAIL OPEN
 FC = FAIL CLOSED
 FLP = FAIL TO LAST POSITION

NOTE
 1. THIS IS A STANDARD LEGEND DRAWING. SOME ITEMS MAY APPEAR IN LEGENDS AND NOT ON THE DRAWINGS.

PIPE SCHEDULE

FLOW STREAM IDENTIFICATION	PIPE/DUCT MATERIAL	PIPE MATERIAL ABBREV	SPECIFICATION NUMBER	PIPE LINING	NORMAL MAX OPERATING PRESSURE (PSIG)	FIELD TEST PRESSURE (PSIG)	EXPOSED PIPE PAINT SYSTEM	COLOR CODE	SPECIFIC NOTES	RESTRAINT SYSTEM NOTES
FM-1	DUCTILE IRON	DI	15155	CERAMIC EPOXY	25	100		GREEN W/ "STORMWATER" STENCIL	(A)	(1)
FM-2	HIGH DENSITY POLYETHYLENE (DI PIPE SIZE)	HDPE, DR11	15146	N/A	25	100		GREEN W/ "STORMWATER" STENCIL	N/A	(2)
FM-3	POLYVINYL CHLORIDE	PVC, DR18	15291	N/A	25	100		GREEN W/ "STORMWATER" STENCIL	N/A	(1)

GENERAL NOTES:
 1. COAT BURIED AND SUBMERGED PIPE PER PIPE SPECIFICATIONS.
 2. TEST LINES PER SECTION 15144 UNLESS NOTED OTHERWISE.

RESTRAINT SYSTEM NOTES:
 (1) RESTRAIN EVERYTHING (FITTINGS, VALVES, ETC.) INCLUDING NEW TO EXISTING.
 (2) RESTRAIN AT FITTINGS AND VALVES.

SPECIFIC NOTES:
 (A) APPLY ABOVE GRADE PAINT SYSTEM ONLY TO PIPING EXPOSED TO SUNLIGHT. PIPING UNDER FACILITY CANOPY STRUCTURE SHALL BE CLASSIFIED AS EXPOSED TO SUNLIGHT.



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LTR.	DESIGNED	D. YOUNG	<p>CERTIFICATE OF AUTHORIZATION #1841 730 NE WALDO ROAD, GAINESVILLE, FLORIDA 32641 / (352) 377-5821 8657 BAYPINE ROAD SUITE 300, JACKSONVILLE, FL 32256 / (904) 744-5401</p>	CRANE CREEK M-1 CANAL FLOW RESTORATION ST. JOHN'S RIVER WATER MANAGEMENT DISTRICT	MECHANICAL LEGEND & PIPE SCHEDULE	CERTIFICATE OF AUTHORIZATION #1841	PROJECT NO:	DATE:
	DRAWN	D. HAUBRICH				APPROVED BY	19750-066-01	DEC 2019
	CHECKED	R. KOLLER				D. YOUNG	INDEX NO:	DWG NO:
						P.E. # 44204		G5

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ELECTRICAL ABBREVIATIONS

A	AMMETER, AMPERE	PVC	POLYVINYL CHLORIDE
AC	ALTERNATING CURRENT	PWR	POWER
AFF	ABOVE FINISHED FLOOR	RGS	RIGID GALVANIZED STEEL
AFG	ABOVE FINISHED GRADE	RCPT	RECEPTACLE
AMP	AMPERE	RTU	REMOTE TELEMETRY UNIT
ATS	AUTOMATIC TRANSFER SWITCH	SA	SURGE ARRESTER
AUTO	AUTOMATIC	SH	SPACE HEATER
AUX	AUXILIARY	SPD	SURGE PROTECTION DEVICE
AWG	AMERICAN WIRE GAGE	SS	STAINLESS STEEL
BAT	BATTERY	SW	SWITCH
BC	BARE COPPER	T	THERMOSTAT, THERMISTER
BRKR	BREAKER	TD	TEMPERATURE DETECTOR,
C	CONDUIT, CONTACTOR, CONDUCTOR,	TIME DELAY	
CB	CIRCUIT BREAKER	TDR	TIME DELAY RELAY
CKT	CIRCUIT	TEMP	TEMPERATURE
CPT	CONTROL POWER TRANSFORMER	UND	UNLESS NOTED OTHERWISE
CT	CURRENT TRANSFORMER, CABLE TRAY	UPS	UNINTERRUPTIBLE POWER
DC	DIRECT CURRENT	SUPPLY	
DIV	DIVISION	V	VOLTAGE, VOLTS
DPDT	DOUBLE-POLE DOUBLE-THROW	W	WATT
DPST	DOUBLE-POLE SINGLE-THROW	WP	WEATHERPROOF
DS	DISCONNECT SWITCH	XFMR	TRANSFORMER
ETM	ELAPSED TIME METER		
ETR	EXISTING TO REMAIN		
EXP	EXPLOSION-PROOF		
FDR	FEEDER		
F,FU	FUSE		
FLEX	FLEXIBLE CONDUIT		
FREQ	FREQUENCY		
GALV	GALVANIZED		
GFCI	GROUND FAULT CIRCUIT INTERRUPTER		
G,GND	GROUND		
HH	HANDHOLE		
HP	HORSEPOWER		
HZ	HERTZ		
I & C	INSTRUMENTATION AND CONTROL		
ISR	INTRINSICALLY SAFE RELAY		
J,JB	JUNCTION BOX		
K	KEY INTERLOCK		
KA	KILOAMPERES		
KV	KILOVOLT		
KVA	KILOVOLT AMPERES		
KW	KILOWATTS		
LT	LIQUID-TIGHT		
MISC	MISCELLANEOUS		
MS	MOTOR STARTER		
MT,MTD	MOUNT, MOUNTED		
N	NEUTRAL, NORMAL		
NA	NON-AUTOMATIC		
NC	NORMALLY CLOSED		
NEC	NATIONAL ELECTRIC CODE		
NEMA	NATIONAL ELECTRICAL MANUFACTURERS ASSOC		
NO	NORMALLY OPEN		
NTS	NOT TO SCALE		
OL	OVERLOAD RELAY		
PB	PULL BOX		
PC	PHOTOCELL		
PH	PHASE		
PNL	PANEL		

ELECTRICAL LEGEND

SYMBOL	DESCRIPTION
X	INDICATES ELECT. CKT. #
S	TOGGLE SWITCH, 1-POLE, 20 AMP, 120 VOLT (3 INDICATES 3-WAY, 4 INDICATES 4-WAY)
ⓐ	JUNCTION BOX
Ⓜ	DUPLEX RECEPTACLE, 3 WIRE GROUNDING, NEMA 5-20R, 20 AMP, 125 VOLT
Ⓜ	MOTOR, HORSEPOWER INDICATED
Ⓟ	IN GROUND PULL BOX, SEE NOTE 11 & 13
Ⓜ	NEW HANDHOLE (NUMBER INDICATED), SEE NOTE 12
Ⓞ	GROUND ROD, 5/8"x10'-0" COPPER CLAD
Ⓞ	CONDUIT UP (MULTIPLE OR SINGLE)
Ⓞ	CONDUIT DOWN (MULTIPLE OR SINGLE)
---	CONDUIT, EXPOSED
---	CONDUIT IN FLOOR OR UNDERGROUND
---	OVERHEAD ELECTRIC LINE, 3-PHASE
Ⓞ	CONDUIT RUN
~P101	CIRCUIT REFERENCE, SEE WIRING SCHEDULES
X	ON SYMBOL INDICATES REMOVAL
Ⓜ	LOCAL CONTROL STATION HAND-OFF-AUTOMATIC IN NEMA 4X SS ENCL.
Ⓜ	SAFETY SWITCH NEMA 4X STAINLESS STEEL 3 POLE UNLESS OTHERWISE NOTED WITH 2 FORM "C" AUX CONTACTS
ETM	ELAPSED TIME METER
Ⓞ	CIRCUIT BREAKER
Ⓜ	FUSE
Ⓜ	TERMINAL
Ⓜ	CONTROL POWER TRANSFORMER
Ⓜ	INDICATING LIGHT, R=RED, G=GREEN, A=AMBER
Ⓜ	GROUND CONNECTION
DL'S	THERMAL OVERLOADS
Ⓜ	PHASE MONITOR RELAY CONTACT
Ⓜ	PUSHBUTTON SWITCH
Ⓜ	N.C.T.O. CONTACT
Ⓜ	N.O.T.C. CONTACT
Ⓜ	NORMALLY OPEN INSTANTANEOUS CONTACT
Ⓜ	NORMALLY CLOSED INSTANTANEOUS CONTACT
Ⓜ	TIME DELAY RELAY (0-180 SEC)
---	FIELD/INTERCONNECTION WIRING
---	LOCAL/INTERNAL WIRING

SYMBOL	DESCRIPTION
Ⓜ	TIME CLOCK (24 HR, 15 MIN ON/OFF)
Ⓜ	TIME DELAY RELAY (0-180 SEC)
Ⓜ	ELAPSED TIME METER
Ⓜ	MOTOR SPACE HEATER
Ⓜ	MAGNETIC FLOW METER
Ⓜ	PHASE MONITOR RELAY
Ⓜ	TORQUE SWITCH
Ⓜ	THERMOSTAT
Ⓜ	SELECTOR SWITCH
Ⓜ	HAND OFF AUTOMATIC (HOA)
Ⓜ	ON-OFF (O-O)
Ⓜ	ON OFF REMOTE (OOR)
Ⓜ	VFD/BYPASS (V-B)
Ⓜ	SURGE PROTECTION DEVICE (SPD)
Ⓜ	MOTOR CIRCUIT PROTECTOR (MCP) OR CIRCUIT BREAKER (TRIP AMPS INDICATED) 3 POLE UNLESS OTHERWISE INDICATED
Ⓜ	CURRENT TRANSFORMER
Ⓜ	POWER TRANSFORMER
Ⓜ	COMBINATION MOTOR STARTER WITH MCP
Ⓜ	FVR = FULL VOLTAGE REVERSING
Ⓜ	FVNR = FULL VOLTAGE NON-REVERSING
Ⓜ	SSRV = SOLID STATE REDUCED VOLTAGE
Ⓜ	VFD = VARIABLE FREQUENCY DRIVE
CPT	CONTROL POWER TRANSFORMER
Ⓜ	CONTROL PANEL
O-O	ON - OFF
---	EQUIPMENT OUTLINE

ELECTRICAL NOTES

- COORDINATE THE INSTALLATION WITH POWER COMPANY PRIOR TO BEGINNING WORK. CONTACT THE POWER COMPANY AND SUBMIT ANY FORMS NECESSARY FOR WORK REQUIRED UNDER THIS CONTRACT.
- ALL WORK SHALL CONFORM TO THE LATEST ADOPTED EDITION OF THE NATIONAL ELECTRICAL CODE (NEC). GROUND ALL ELECTRICAL EQUIPMENT AND ENCLOSURES IN ACCORDANCE WITH THE NEC.
- THE EXISTING UTILITIES ARE SHOWN BASED ON BEST AVAILABLE INFORMATION. THE CONTRACTOR SHALL DETERMINE ACTUAL LOCATIONS OF EXISTING UTILITIES AND TAKE NECESSARY CARE TO AVOID DAMAGE TO THOSE UTILITIES. THE CONTRACTOR SHALL REPLACE ALL CIRCUITS AND REPAIR PIPING DAMAGED AS A RESULT OF CONTRACTOR OPERATIONS AT NO ADDITIONAL COST TO THE OWNER.
- COORDINATE CONDUIT RUNS WITH FACILITIES AND PIPING RUNS. PROVIDE 6" CLEAR AT PIPE CROSSINGS.
- THE CONTRACTOR SHALL PROVIDE AS-BUILT DRAWINGS OF ALL SYSTEMS INCLUDING ROUTING OF HOME RUNS AS SPECIFIED.
- INSTRUMENTATION AND CONTROL CIRCUITS IN CONDUITS SHALL BE SEPARATED BY 6" MINIMUM WHERE RUNNING IN PARALLEL WITH POWER CIRCUIT CONDUITS.
- ALL MOUNTING HARDWARE, ANCHORS, CHANNEL, PLATES, BRACKETS, FLOAT SUSPENSION CABLES, CABLE HANGERS AND ENCLOSURES SHALL BE STAINLESS STEEL UNLESS OTHERWISE INDICATED.
- UNLESS OTHERWISE NOTED, ALL CONDUIT SHALL BE SCHEDULE 40 PVC BELOW GRADE AND SCHEDULE 80 ABOVE GRADE.
- ALL LOW VOLTAGE CIRCUITS SHALL BE PROVIDED WITH A GREEN GROUNDING CONDUCTOR, SIZED IN ACCORDANCE WITH THE LATEST ADOPTED EDITION OF THE NATIONAL ELECTRIC CODE (NEC).
- IN GENERAL, LIGHT LINES INDICATE EXISTING OR WORK OF OTHER TRADES, BOLD LINES INDICATE NEW ELECTRICAL WORK.
- THE CONTRACTOR SHALL TEST AND RE-VERIFY SIGNAL AND CONNECTIVITY OF RELOCATED ANTENNA SYSTEM TO ENSURE IT MAINTAINS AT A MINIMUM THE SAME CAPABILITIES AS IN ITS ORIGINAL LOCATION.



THIS IS A STANDARD LEGEND SHEET. SOME SYMBOLS AND ABBREVIATIONS MAY APPEAR ON THE LEGEND AND NOT ON THE DRAWINGS. FOR ADDITIONAL ABBREVIATIONS OF OTHER DIVISIONS, SEE OTHER LEGENDS.

Y:\19750-SJRWMD\PROJECTS\066-01_CRANE_CREEK_M-1_FLOW_RESTORATION_DESIGN\CAD\DWG\GENERAL\19750-066-01-G6.DWG
 11/14/2019 4:34 PM DHAUBRICH

DESIGNED	HAL DIETRICK			
DRAWN	HAL DIETRICK			
CHECKED	MICHAEL CLARK			
APPROVED				
LTR.	DATE	REVISIONS	BY	APPRD.

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CRANE CREEK M-1 CANAL FLOW RESTORATION
ST. JOHN'S RIVER WATER MANAGEMENT DISTRICT

ELECTRICAL LEGEND

APPROVED BY	PROJECT NO:	DATE:
HAL DIETRICK	19750-066-01	NOV 2019
P.E. # 76416	INDEX NO:	DWG NO:
		G6

PLOTTED: 11/15/2019 11:22 AM JOAQUIN LOVO

GENERAL NOTES:

- THESE NOTES ARE GENERAL AND SUPPLEMENTAL TO THE SPECIFICATIONS. THESE NOTES APPLY TO THE ENTIRE PROJECT UNLESS MODIFIED OR NOTED OTHERWISE IN THE CONTRACT DOCUMENTS.
- DESIGN IS IN ACCORDANCE WITH AND CONSTRUCTION SHALL COMPLY WITH THE PROVISIONS OF THE 2017 FLORIDA BUILDING CODE, EXCEPT WHERE OTHER APPLICABLE CODES AND THE CONTRACT DOCUMENTS ARE MORE RESTRICTIVE.
- LIVE LOADS:
 ROOFS: 20 PSF
 PROCESS AREAS: 200 PSF
 STAIRS & PLATFORMS: 100 PSF
 CANAL SLAB-ON-GRADE: HS20 TRUCK LOADING
- ALL DIMENSIONS INDICATED (*) ARE TO BE VERIFIED EITHER BY FIELD MEASUREMENTS FOR EXISTING STRUCTURES OR BY SHOP DRAWINGS FOR EQUIPMENT FURNISHED. STRUCTURAL DIMENSIONS NOT SHOWN BUT CONTROLLED BY OR RELATED TO EQUIPMENT SHALL BE VERIFIED WITH THE MANUFACTURER PRIOR TO CONSTRUCTION.
- EQUIPMENT ANCHOR BOLT SIZES, TYPES, AND PATTERNS SHALL BE VERIFIED WITH THE MANUFACTURER. ALL BOLT PATTERNS SHALL BE TEMPLATED TO INSURE ACCURACY OF PLACEMENT.
- STRUCTURAL DRAWINGS SHALL BE USED IN COORDINATION WITH DRAWINGS OF ALL OTHER DISCIPLINES AND MANUFACTURER'S SHOP DRAWINGS.
- IF A CONFLICT IS FOUND BETWEEN DIFFERENT PORTIONS OF THE CONTRACT DOCUMENTS, NOTIFY THE OWNER IMMEDIATELY. CONTINUED CONSTRUCTION OF THE AREA IN CONFLICT SHALL BE AT THE CONTRACTOR'S OWN RISK UNTIL THE CONFLICT IS RESOLVED BY THE OWNER.
- STRUCTURES HAVE BEEN DESIGNED FOR OPERATIONAL LOADS ON THE COMPLETED STRUCTURE. DURING CONSTRUCTION, THE STRUCTURES SHALL BE PROTECTED BY BRACING AND TEMPORARY SUPPORTS WHEREVER EXCESSIVE CONSTRUCTION LOADS MAY OCCUR. OVERSTRESSING OF ANY STRUCTURAL ELEMENT IS PROHIBITED.
- NO BACK FILL SHALL BE PLACED AGAINST ANY WALL UNLESS ALL SUPPORTING ELEMENTS OF THE STRUCTURE HAVE BEEN CONSTRUCTED AND HAVE REACHED THE SPECIFIED MINIMUM CONCRETE STRENGTH.
- DO NOT SCALE THESE DRAWINGS. USE DIMENSIONS.
- CONTRACTOR'S CONSTRUCTION AND/OR ERECTION SEQUENCES SHALL RECOGNIZE AND CONSIDER THE EFFECTS OF THERMAL MOVEMENTS OF STRUCTURAL ELEMENTS DURING THE CONSTRUCTION PERIOD.
- PROVIDE ADDITIONAL REINFORCEMENT AT OPENINGS AND AT WALL INTERSECTIONS AS SHOWN IN STANDARD DETAILS.
- FOR SIZES AND LOCATIONS OF EQUIPMENT SUPPORTS AND PIPE OPENINGS, SEE OTHER DISCIPLINE DRAWINGS. OPENINGS SIZES LESS THAN 12" ARE NOT SHOWN ON STRUCTURAL DRAWINGS, REFERENCE OTHER DISCIPLINE DRAWINGS FOR LOCATIONS.
- FOR NUMBER, TYPE, SIZE, ARRANGEMENT, AND/OR LOCATION OF EQUIPMENT PADS, SEE OTHER DISCIPLINE DRAWINGS. COORDINATE WITH EQUIPMENT SUPPLIER PRIOR TO PLACING SLABS, WALLS, AND FOUNDATIONS. COORDINATE PIPING OPENINGS WITH OTHER DISCIPLINE DRAWINGS.
- STANDARD DETAILS ARE INTENDED TO BE TYPICAL AND SHALL APPLY TO SIMILAR SITUATIONS OCCURRING THROUGHOUT THE PROJECT, WHETHER OR NOT THEY ARE INDIVIDUALLY CALLED OUT.
- DO NOT CUT OR MODIFY STRUCTURAL MEMBERS FOR PIPES, DUCTS, ETC. UNLESS SPECIFICALLY DETAILED OR APPROVED IN WRITING BY THE ENGINEER.
- VISITS TO THE JOB SITE BY THE ENGINEER TO OBSERVE THE CONSTRUCTION DO NOT IN ANY WAY MEAN THAT ENGINEER IS GUARANTOR OF CONSTRUCTOR'S WORK, NOR RESPONSIBLE FOR THE COMPREHENSIVE OR SPECIAL INSPECTIONS, COORDINATION, SUPERVISION, OR SAFETY AT THE JOB SITE.

FOUNDATION NOTES:

- DESIGN OF FOUNDATION IS BASED ON SUBSURFACE SOIL EXPLORATION AND GEOTECHNICAL ENGINEERING EVALUATION (PROJECT NO. 18-23-5319) COMPLETED BY ARDAMAN & ASSOCIATES, INC., ON MAY 3, 2019.
- MINIMUM DEPTH FROM ADJACENT FINISHED GRADE TO BOTTOM OF EXTERIOR FOUNDATION 1'-6" UNLESS OTHERWISE NOTED.
- FOUNDATION SLABS AND SLABS-ON-GRADE SHALL BEAR ON COMPACTED SOILS MEETING THE REQUIREMENTS OF THE GEOTECHNICAL REPORT UNLESS OTHERWISE NOTED IN FACILITY NOTES. PLACE 6 MIL VISQUEEN OVER COMPACTED SOILS PRIOR TO PLACING CHAIRS THAT SUPPORT REINFORCING MATS.
- FOUNDATION BEARING SURFACES SHALL BE OBSERVED BY THE GEOTECHNICAL ENGINEER OR QUALIFIED DESIGNER PRIOR TO THE PLACEMENT OF FORM WORK OR REINFORCING STEEL. THE OBSERVATION SHALL VERIFY IF THE ACTUAL EXPOSED SUBGRADE IS AS ANTICIPATED BY THE SITE SPECIFIC BORINGS, TEST PITS, TESTING AND DATA REPORTS.

CONCRETE NOTES:

- CONCRETE 56-DAY COMPRESSIVE STRENGTH:
 CLASS A - 2500 PSI FOR CONCRETE FILL & DUCT ENCASUREMENT
 CLASS B - 3000 PSI FOR SIDEWALKS, CURBS ETC.
 CLASS C - 5000 PSI ALL FOUNDATIONS AND STRUCTURAL WALLS, SLABS AND BEAMS
 CLASS D - 5000 PSI PRE-CAST CONCRETE
- REINFORCEMENT: ASTM A615, GRADE 60.
- CONCRETE COVER FOR REINFORCING:
 A) SURFACES CAST AGAINST SUBGRADE 3"
 B) TOP SURFACES OF SLABS WHERE PVC WATERSTOP IS REQUIRED IN WALLS 3"
 C) FORMED SURFACES IN CONTACT WITH WEATHER, SOIL, OR LIQUID 2"
 D) BOTTOM SURFACES OF SLABS OVER LIQUID 2"
 E) SURFACES NOT IN CONTACT WITH WEATHER, SOIL, OR LIQUID 1 1/2"
- CONSTRUCTION JOINTS SHALL BE LOCATED AS SHOWN ON THE DRAWINGS. WHERE NOT SHOWN, CONSTRUCTION JOINTS SHALL BE LOCATED AT NO MORE THAN 40' ON CENTER SPACING. SUBMIT PROPOSED CONSTRUCTION JOINT LOCATIONS.
- WHERE HORIZONTAL CONSTRUCTION JOINTS, LOCATED ABOVE THE FOUNDATION SLAB, EXTEND BEYOND WHERE NEEDED, TERMINATE AT A VERTICAL CONSTRUCTION JOINT AS APPROVED BY THE ENGINEER.
- PROVIDE WATERSTOPS IN ALL FOUNDATIONS, TANKS AND OTHER SUBSTRUCTURES UP TO AN ELEVATION AT LEAST 12 INCHES ABOVE GRADE OR TO AN ELEVATION AT LEAST 12 INCHES ABOVE LIQUID LEVEL IN TANKS, WHICHEVER IS HIGHER, WHETHER SHOWN OR NOT. SEE STANDARD DETAILS. SEE MECHANICAL DRAWINGS FOR ALL REQUIRED PIPE ENCASEMENT.
- EQUIPMENT SUPPORTS, ANCHORAGES, OPENINGS, RECESSES AND REVEALS NOT SHOWN ON THE STRUCTURAL DRAWINGS BUT REQUIRED BY OTHER CONTRACT DOCUMENTS, SHALL BE PROVIDED FOR PRIOR TO PLACING CONCRETE.
- AT ALL TYPICAL CURBS, EQUIPMENT PADS, AND PIPE SUPPORT PIERS, REINFORCING DOWELS SHOWN MAY BE REPLACED WITH MATCHING DOWELS SET IN EPOXY IN DRILLED HOLES AS SPECIFIED. DOWELS LOCATED CLOSER THAN 3 INCHES FROM ANY EDGE OF CONCRETE SHALL NOT BE REPLACED WITH DRILLED DOWELS.
- WHERE DRILLED EPOXY DOWELS ARE PLACED INTO HARDENED CONCRETE, ADJUST THE DOWEL LOCATIONS AS NEEDED TO AVOID DRILLING THROUGH ANY REINFORCING BARS. IF THE DOWEL LOCATION NEEDS TO BE MODIFIED, CONTACT THE ENGINEER PRIOR TO DRILLING.
- DOWELS, ANCHOR BOLTS, PIPES, AND OTHER EMBEDDED ITEMS SHALL BE HELD SECURELY IN POSITION WHILE CONCRETE IS PLACED.
- CONDUITS AND PIPES EMBEDDED IN OR PENETRATING THROUGH CONCRETE SHALL BE SPACED ON CENTER NOT LESS THAN 3 TIMES THEIR OUTSIDE DIMENSION, BUT NOT LESS THAN 2 1/2 INCHES CLEAR. OUTSIDE DIMENSION OF EMBEDDED ITEMS SHALL NOT EXCEED 1/3 OF THE CONCRETE MEMBER THICKNESS. CLEAR SPACING REQUIREMENTS SHALL APPLY FOR EMBEDDED CONDUITS OR PIPES CROSSING AT AN ANGLE LESS THAN 60 DEGREES.
- THE EFFECTIVE DIMENSION USED TO MEET MEMBER THICKNESS LIMITATIONS SHALL BE THE SUM OF THE OUTER DIMENSIONS OF CROSSING ELEMENTS.
- EMBEDDED CONDUITS AND PIPES SHALL BE LOCATED BETWEEN THE LAYERS OF REINFORCEMENT AND A MINIMUM OF 2 1/2 INCHES CLEAR FROM APPROXIMATELY PARALLEL REINFORCING BARS. REQUIREMENTS FOR EMBEDDED ELEMENTS CROSSING REINFORCING BARS SHALL BE AS REQUIRED FOR CROSSING EMBEDDED ELEMENTS.
- CONDUITS AND PIPES SHALL NOT BE EMBEDDED IN OR PASS THROUGH COLUMNS OR BEAMS UNLESS INDICATED OTHERWISE OR AUTHORIZED BY ENGINEER.
- REINFORCING BARS AND ACCESSORIES SHALL NOT BE IN CONTACT WITH ANY METAL PIPE, PIPE IN FLANGE, METAL CONDUIT, OR OTHER METAL PARTS EMBEDDED IN CONCRETE. A MINIMUM CLEARANCE OF 2 INCHES SHALL BE PROVIDED.
- PROVIDE 3/4 INCH CHAMFER USING WOOD CHAMFER STRIPS ON ALL EXPOSED CORNERS OF COLUMNS, BEAMS, AND WALLS.
- SIZE AND SPACING OF WALL CORNER AND WALL INTERSECTION REINFORCING SHALL MATCH TYPICAL WALL REINFORCING UNLESS OTHERWISE SHOWN ON PLANS.
- 90 DEGREE BENDS, UNLESS OTHERWISE SHOWN, SHALL BE ACI 350 STANDARD HOOKS.
- WALL CORNERS AND WALL INTERSECTION REINFORCEMENT BARS SHALL BE CONTINUOUS AROUND CORNERS AND THROUGH COLUMNS. REINFORCEMENT SHALL BE EXTENDED INTO CONNECTING WALLS AND LAPPED ON THE OPPOSITE FACE OF THE CONNECTING WALLS, AS INDICATED IN STANDARD DETAIL B155-3.
- WALL FOOTING CORNER AND INTERSECTION REINFORCEMENT BARS SHALL BE EXTENDED INTO CONNECTING FOOTINGS AND LAPPED ON THE OPPOSITE FACE OF THE CONNECTING FOOTING. OUTSIDE FACE WALL FOOTING REINFORCEMENT SHALL BE LAPPED WITH CORNER BARS. ALL WALL FOOTING REINFORCEMENT SHALL BE CONTINUOUS THROUGH COLUMN OR PILASTER FOOTINGS.
- REINFORCING STEEL FOR FOOTINGS AND SLABS ON GRADE SHALL BE ADEQUATELY SUPPORTED ON BAR SUPPORTS WITH SPACERS TO KEEP REINFORCING ABOVE THE PREPARED GRADE. LIFTING REINFORCING OFF GRADE DURING CONCRETE PLACEMENT IS NOT PERMITTED.
- PREPARE AND PATCH FORM SNAP-TIE HOLES AND ALTERNATE FORM-THROUGH BOLT HOLE BY DRY-PACKING WITH APPROVED NON-SHRINK GROUT.
- PROVIDE VERTICAL WALL CONSTRUCTION JOINTS.
- PROVIDE ADDITIONAL HORIZONTAL STEEL REINFORCEMENT AT HORIZONTAL CONSTRUCTION JOINTS.
- PROVIDE ADDITIONAL STEEL REINFORCEMENT AT OPENINGS AND PIPE PENETRATIONS.

STRUCTURAL METAL NOTES:

- DETAIL, FABRICATE, AND ERECT STRUCTURAL STEEL IN ACCORDANCE WITH AISC STEEL CONSTRUCTION MANUAL AND AISC SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS, LATEST EDITION.
- STEEL MATERIAL:
 2.1 STRUCTURAL TUBING, ASTM A500, GRADE B OR C
 2.2 STRUCTURAL PIPE, ASTM A53, GRADE B
 2.3 W SHAPES, ASTM A992
 2.4 STRUCTURAL CHANNELS, ASTM A536
 2.5 ALL OTHER SHAPES AND PLATES, ASTM A36 UON
- BOLTS SHALL BE HIGH STRENGTH BOLTS CONFORMING TO THE FOLLOWING ASTM SPECIFICATIONS EXCEPT WHERE SPECIFICALLY INDICATED OTHERWISE:
 UNLESS SHOW OTHERWISE A325-N
 SLIP CONTROL A325-SC
 ANCHOR BOLTS (AB) F593, AISI TYPE 316, CONDITION CW
 STAINLESS STEEL STEEL F1554, GR 36
 GALVANIZED STEEL F1554, GR 36 / A153
 MACHINE BOLTS (MB) A307
- PROVIDE TYPICAL STEEL BEAM CONNECTIONS FOR A CAPACITY OF NOT LESS THAN THE TOTAL UNIFORM LOAD CAPACITY TABULATED IN THE AISC TABLES FOR ALLOWABLE LOADS OF BEAMS.
- DO NOT PAINT STEEL SURFACES WHICH ARE TO BE WELDED OR ENCASED IN CONCRETE.
- FILLET WELD SIZES SHALL BE THE MINIMUM SIZE REQUIRED BY AISC AND AWS FOR PLATE SIZES TO BE CONNECTED AND SHALL BE APPLIED TO THE ENTIRE JOINT CONTACT LENGTH.
- STAINLESS STEEL SHALL BE TYPE 316L-ASTM A276.
- STAINLESS STEEL TYPE 316L SHALL BE USED IN ALL AREAS TO BE SUBMERGED AND AS SHOWN ON DWGS.
- IF STAINLESS STEEL MEMBERS ARE NOT AVAILABLE, PROVIDE EQUIVALENT STAINLESS STEEL SECTIONS, BUILT UP OUT OF STAINLESS STEEL PLATES.
- ALL BOLTS, ANCHOR BOLTS, AND CONCRETE ANCHORS CONNECTING STAINLESS STEEL SHALL BE TYPE 316 STAINLESS STEEL.
- WHENEVER ONE MEMBER IS FASTENED TO ANOTHER WITH FASTENINGS (BOLTS, WELDS, ETC.) SET AT A UNIFORM SPACING, THERE SHALL BE A MINIMUM OF TWO FASTENINGS PER PIECE CONNECTED AND THE FIRST AND LAST FASTENINGS SHALL BE LOCATED NOT TO EXCEED 1/4 SPACE FROM EACH END.
- ALL GRATING SHALL BE ALUMINUM UNLESS OTHERWISE NOTED.
- ITEMS TO BE EMBEDDED IN CONCRETE SHALL BE CLEAN AND FREE OF OIL, DIRT AND PAINT.
- NO HOLES OTHER THAN THOSE SPECIFICALLY DETAILED SHALL BE ALLOWED THROUGH STRUCTURAL STEEL MEMBERS. NO CUTTING OR BURNING OF STRUCTURAL STEEL IS PERMITTED WITHOUT THE APPROVAL OF THE ENGINEER.

STEEL SHEET PILING NOTES:

- SEE SPECIFICATIONS FOR ALL STEEL SHEET PILING REQUIREMENTS.
- SUBMIT SHOP DRAWINGS SIGNED AND SEALED BY A REGISTERED FLORIDA P.E. FOR REVIEW PRIOR TO FABRICATION.

PRECAST CONCRETE NOTES:

- SEE SPECIFICATIONS FOR ALL PRECAST CONCRETE REQUIREMENTS.
- SUBMIT SHOP DRAWINGS SIGNED AND SEALED BY A REGISTERED FLORIDA P.E. FOR REVIEW PRIOR TO FABRICATION.

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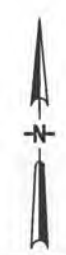
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CHECKED	_____			
LTR.	DATE	REVISIONS	BY	APPRD.

JonesEdmunds
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CRANE CREEK M-1 CANAL FLOW RESTORATION
 ST. JOHN'S RIVER WATER MANAGEMENT DISTRICT

GSE
 Engineering & Consulting, Inc.
 GSE PROJECT #13972
 5590 SW 64th Street, Suite B
 Gainesville, Florida 32608
 Certificate of Authorization #27430
 MONROE T. THIE P.E. # 32071

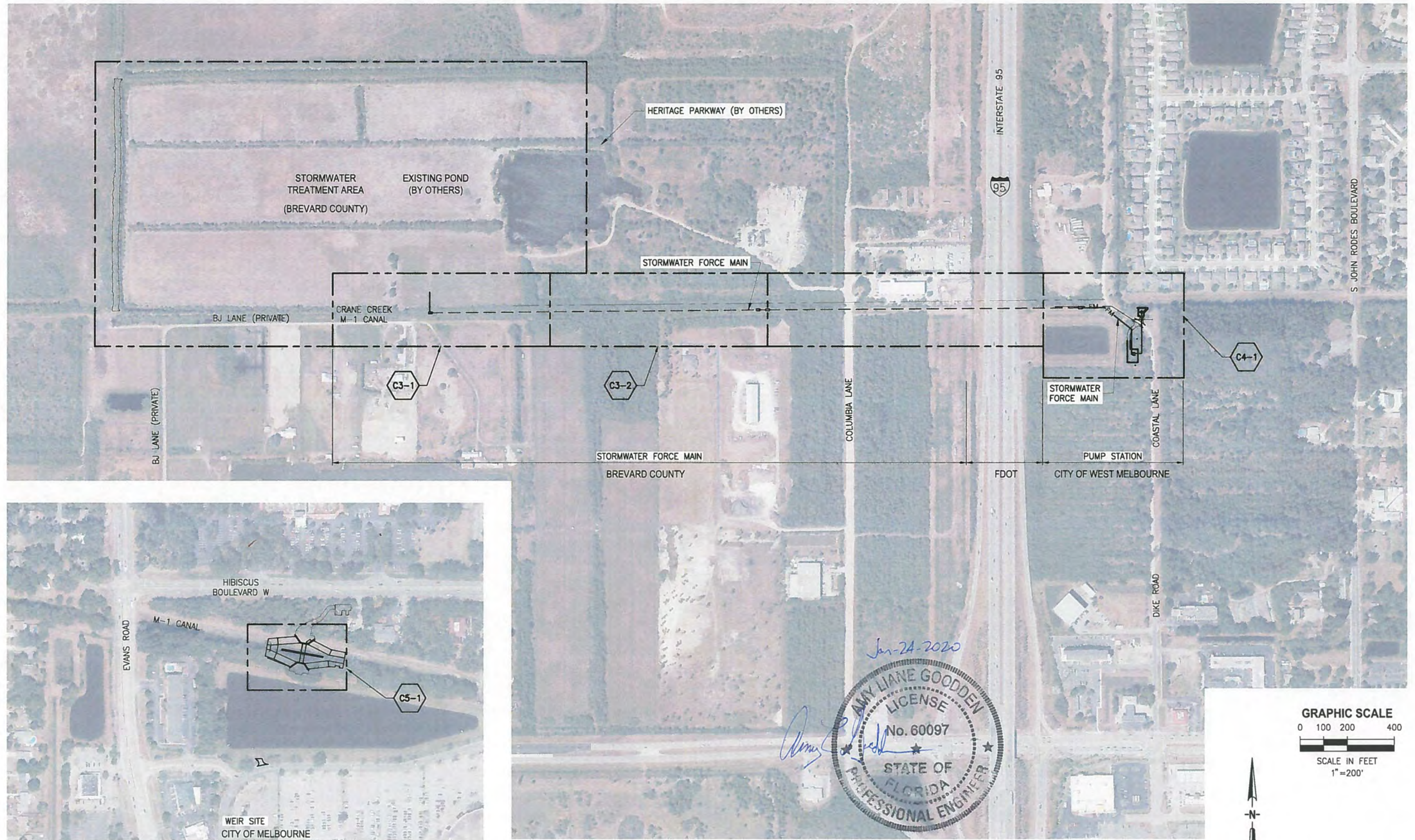
11/27/2020



PROJECT NO:	DATE:
19750-066-01	OCT 2019
INDEX NO:	DWG NO:
	G7

STRUCTURAL GENERAL NOTES

PLOTTED: 1/24/2020 08:49 AM DEAN HAUBRICH



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NOT FOR CONSTRUCTION

DESIGNED	A GOODDEN
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DATE	REVISIONS
BY	APPROD.

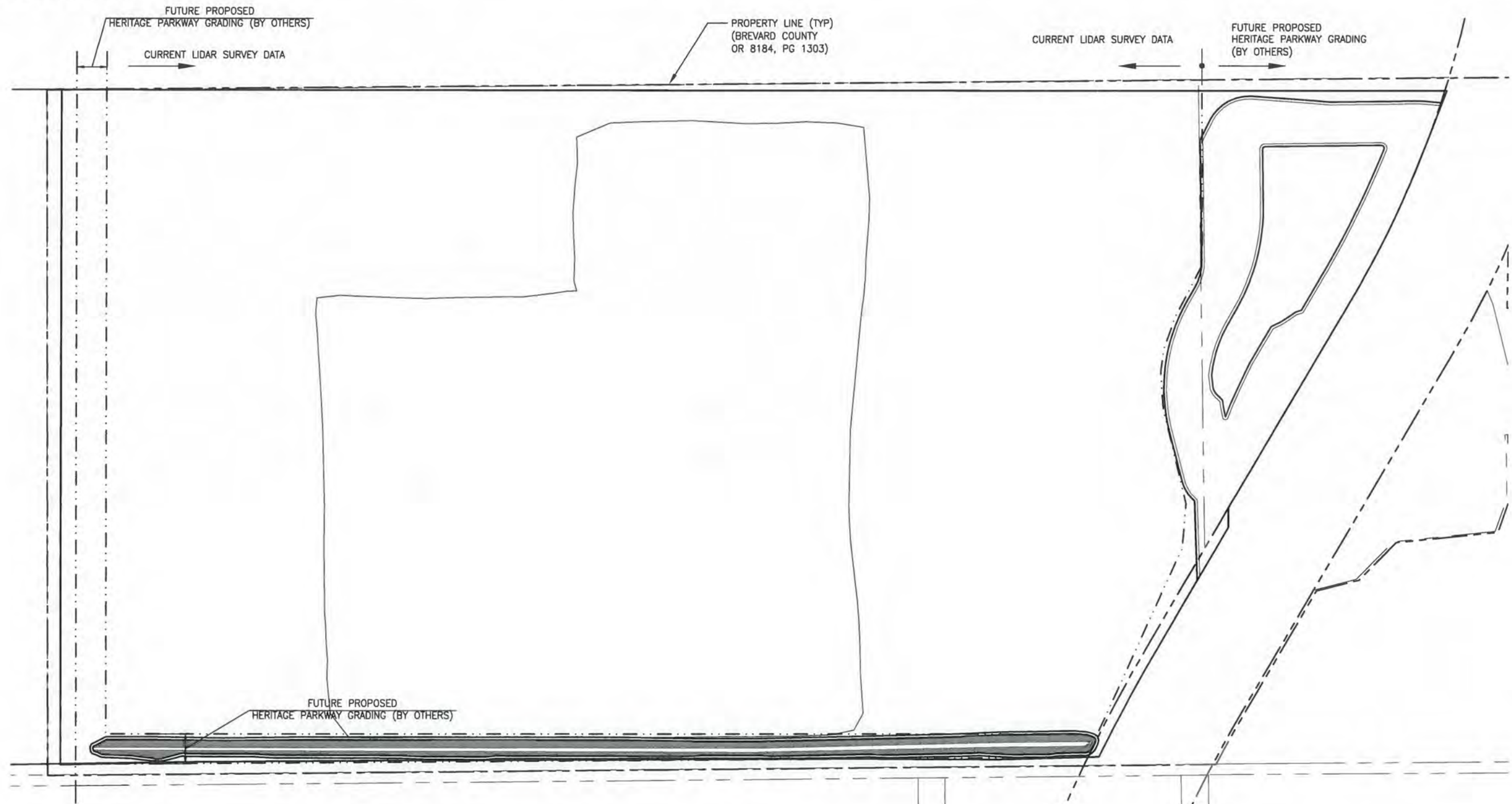
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**CRANE CREEK M-1 CANAL FLOW RESTORATION
 ST. JOHN'S RIVER WATER MANAGEMENT DISTRICT**

KEY MAP

CERTIFICATE OF AUTHORIZATION #1841	PROJECT NO:	DATE:
APPROVED BY	19750-066-01	DEC 2019
A. GOODDEN	INDEX NO:	DWG NO:
P.E. # 60097		G8

PLOTTED: 1/20/2020 11:50 AM DEAN HAUBRICH

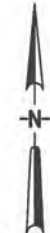
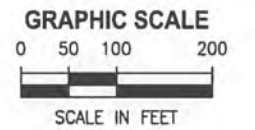


GENERAL NOTES:

- 1) JONES EDMUNDS DOES NOT HAVE A COMPLETE SURVEY OF THE PROPERTY FOR THE STORMWATER TREATMENT AREA. THE DATA PRESENTED IN V1 ARE AN APPROXIMATION OF THE GRADES THAT WILL EXIST AFTER THE ST. JOHN'S HERITAGE PARKWAY IS CONSTRUCTION AND WHEN THE CRANE CREEK M-1 CANAL RESTORATION PROJECT STARTS. V1 IS A COMPOSITE CREATED FROM THE REFERENCED DATA LISTED HERE.
- 2) THE FOLLOWING DATA WERE USED TO PREPARE THE EXISTING CONDITIONS:
 - a. 2007 BREVARD COUNTY LIDAR DATA. SOURCE DATA PROVIDES ELEVATIONS BASED ON NAVD88
 - b. FUTURE PROPOSED HERITAGE PARKWAY GRADING FROM DRMP, 11/01/2018 CAD FILES FOR THE ST JOHN HERITAGE PARKWAY. SOURCE DATA PROVIDES ELEVATIONS BASED ON NAVD88
 - c. FUTURE PROPOSED HERITAGE PARKWAY LIMITS-OF-CONSTRUCTION FROM DRMP, 11/01/2018 CAD FILES FOR THE ST JOHN HERITAGE PARKWAY.
 - d. BORROW AREA SURVEYS PREPARED BY JR DAVIS CONSTRUCTION COMPANY FOR THE PURPOSE OF PROVIDING INTERMEDIATE CONSTRUCTION DATA TO BREVARD COUNTY DURING THE ST. JOHN'S HERITAGE PARKWAY CONSTRUCTION PROJECT. THE SURVEYS ARE DATED 08/13/2019 AND 10/04/2019. SOURCE DATA PROVIDES ELEVATIONS BASED ON NAVD88
 - e. THE HERITAGE PARKWAY ROW LINE WAS DRAWN BY JONES EDMUNDS USING DATA PRESENTED IN THE PRELIMINARY PARKWAY. SOURCE DATA PROVIDES ELEVATIONS BASED ON NAVD88.
- 3) PRIOR TO CONSTRUCTION, THE CONTRACTOR WILL SURVEY THE PROPERTY BOUNDARY AND RIGHTS-OF-WAY AND ENSURE ALL PROPOSED WORK IS WITHIN THE PROPERTY LIMITS. THE CONTRACTOR SHALL NOTIFY THE DISTRICT AND THE ENGINEER IMMEDIATELY OF ANY CONFLICTS.

(06/25/2011) ST JOHN'S HERITAGE PARKWAY RIGHT-OF-WAY MAP. THE FINAL ROW WILL BE FILED AND PLATTED AT THE COMPLETION OF THE ST JOHN'S HERITAGE PARKWAY PROJECT (APPROXIMATELY JAN 2020).

THE PROPERTY BOUNDARY IS BASED ON THE PROPERTY BOUNDARY DESCRIPTION RECORDED IN THE BREVARD COUNTY CLERK OF COURT OFFICIAL RECORD OR8184, PG1303.



NOT FOR CONSTRUCTION

LTR.	DATE	REVISIONS	BY	APPRO.

JonesEdmunds
 CERTIFICATE OF AUTHORIZATION #1841
 730 NE WALDO ROAD, GAINESVILLE, FLORIDA 32641 / (352) 377-5821
 8657 BAYPINE ROAD SUITE 300, JACKSONVILLE, FL 32256 / (904) 744-5401

**CRANE CREEK M-1 CANAL FLOW RESTORATION
 ST. JOHN'S RIVER WATER MANAGEMENT DISTRICT**

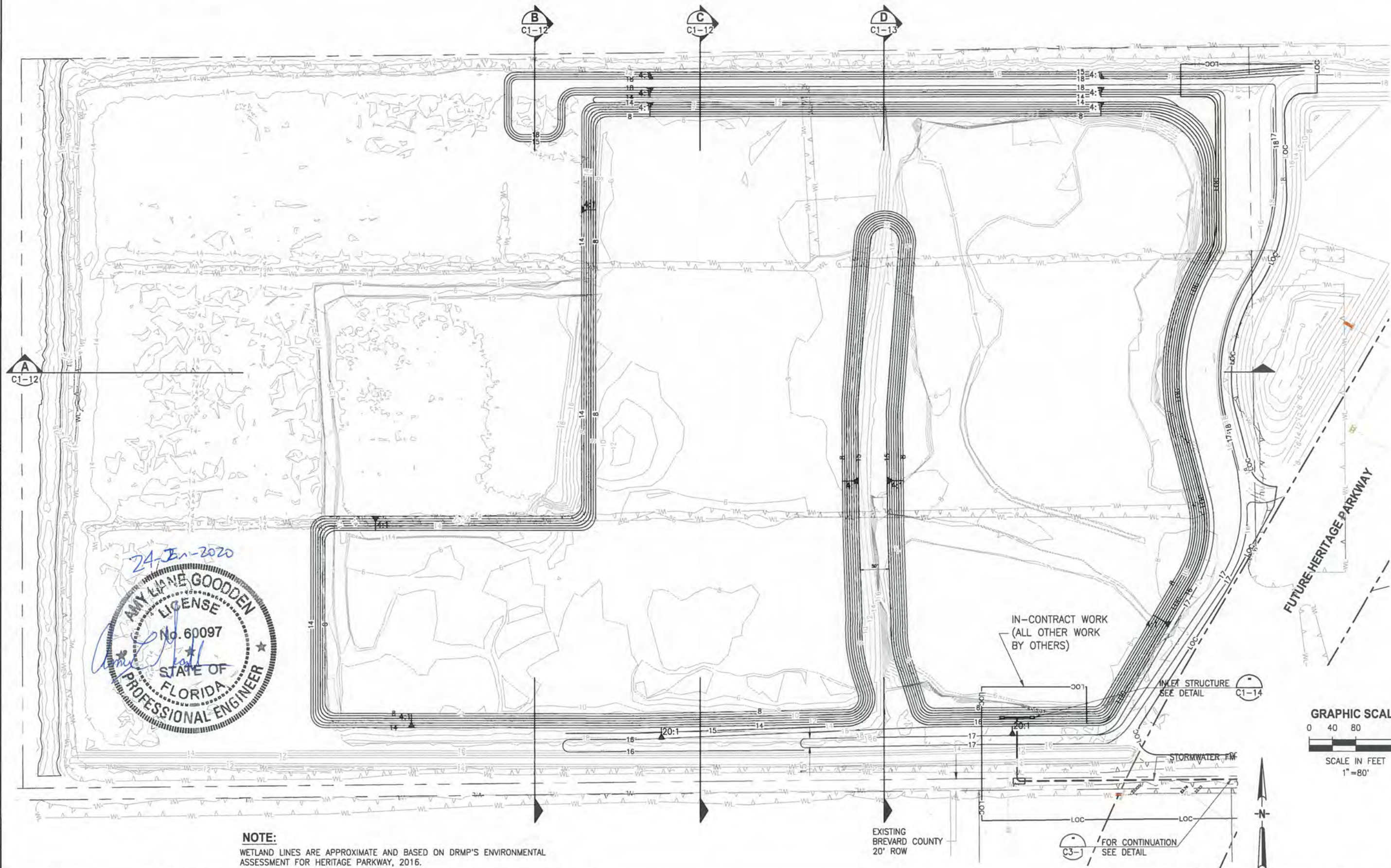
**STORMWATER TREATMENT AREA
 EXISTING CONDITIONS**

PROJECT NO: 19750-066-01	DATE: DEC 2019
INDEX NO:	DWG NO: V1
P.E. #	

SAVED: 11/15/2019 8:01 AM DHAUBRICH Y:\19750-SJRWMD\PROJECTS\066-01_CRANE_CREEK_M-1_FLOW_RESTORATION_DESIGN\CAD\DWGS\CIVIL\V1.DWG

PLOTTED: 1/20/2020 11:52 AM DEAN HAUBRICH

Y:\19750-SURWMD\PROJECTS\066-01_CRANE_CREEK_M-1_FLOW_RESTORATION_DESIGN\CAD\DWGS\CIVIL\C1-2.DWG
12/19/2019 3:22 PM PUPSTILL



24 Jan 2020
 AMY LANE GOODDEN
 LICENSE No. 60097
 STATE OF FLORIDA
 PROFESSIONAL ENGINEER

NOTE:
 WETLAND LINES ARE APPROXIMATE AND BASED ON DRMP'S ENVIRONMENTAL ASSESSMENT FOR HERITAGE PARKWAY, 2016.

LTR	DATE	REVISIONS	BY	APPROV.	CHECKED

JonesEdmunds
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CRANE CREEK M-1 CANAL FLOW RESTORATION
ST. JOHN'S RIVER WATER MANAGEMENT DISTRICT

STORMWATER TREATMENT AREA
OVERALL GRADING PLAN

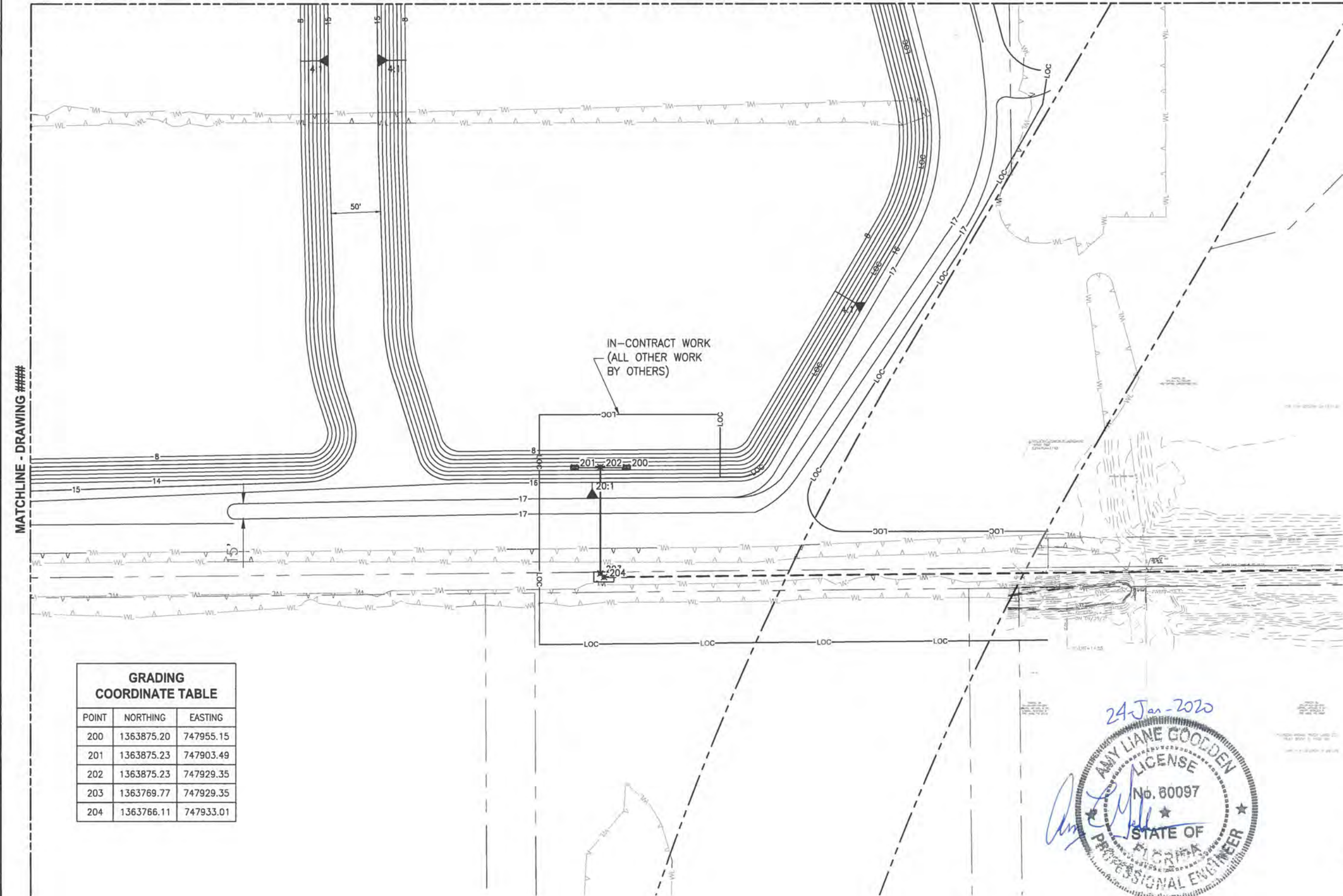
CERTIFICATE OF AUTHORIZATION #1841
 APPROVED BY
 A. GOODDEN
 P.E. # 60097

PROJECT NO: 19750-066-01
 DATE: DEC 2019
 INDEX NO:
 DWG NO: C1-2

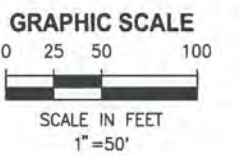
NOT FOR CONSTRUCTION

PLOTTED: 1/20/2020 11:54 AM DEAN HAUBRICH

MATCHLINE - DRAWING ####



GRADING COORDINATE TABLE		
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201	1363875.23	747903.49
202	1363875.23	747929.35
203	1363769.77	747929.35
204	1363766.11	747933.01



NOT FOR CONSTRUCTION

LTR	DATE	REVISIONS	BY	APPRD.

DESIGNED A GOODDEN
 DRAWN D HAUBRICH
 CHECKED R KOLLER

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 8657 BAYPINE ROAD SUITE 300, JACKSONVILLE, FL 32256 / (904) 744-5401

CRANE CREEK M-1 CANAL FLOW RESTORATION
 ST. JOHN'S RIVER WATER MANAGEMENT DISTRICT

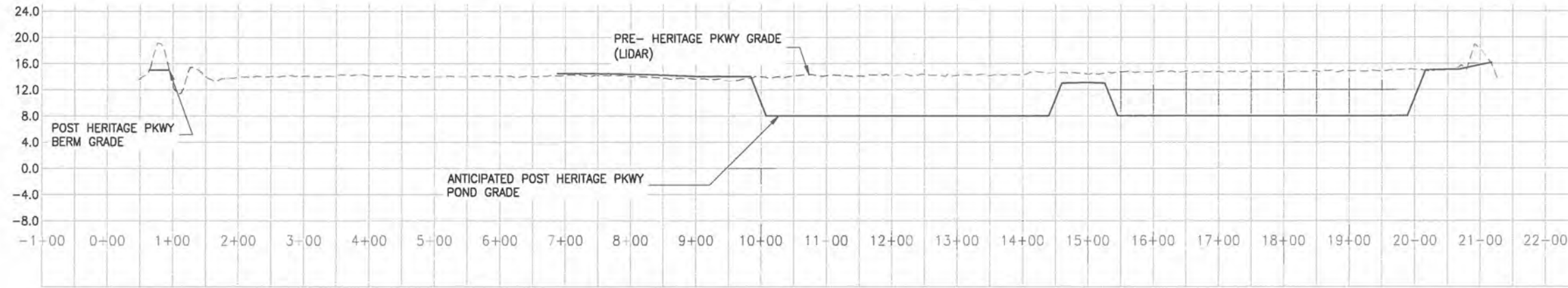
STORMWATER TREATMENT AREA
 GRADING PLAN

CERTIFICATE OF AUTHORIZATION #1841
 APPROVED BY
 A. GOODDEN
 P.E. # 60097

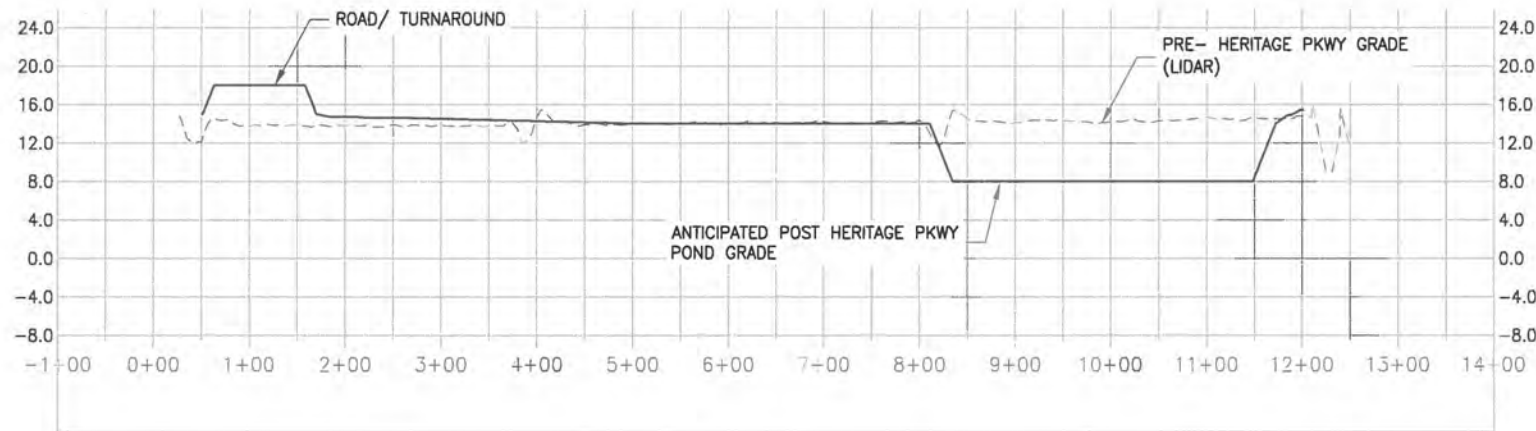
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 DATE: DEC 2019
 INDEX NO:
 DWG NO: C1-6

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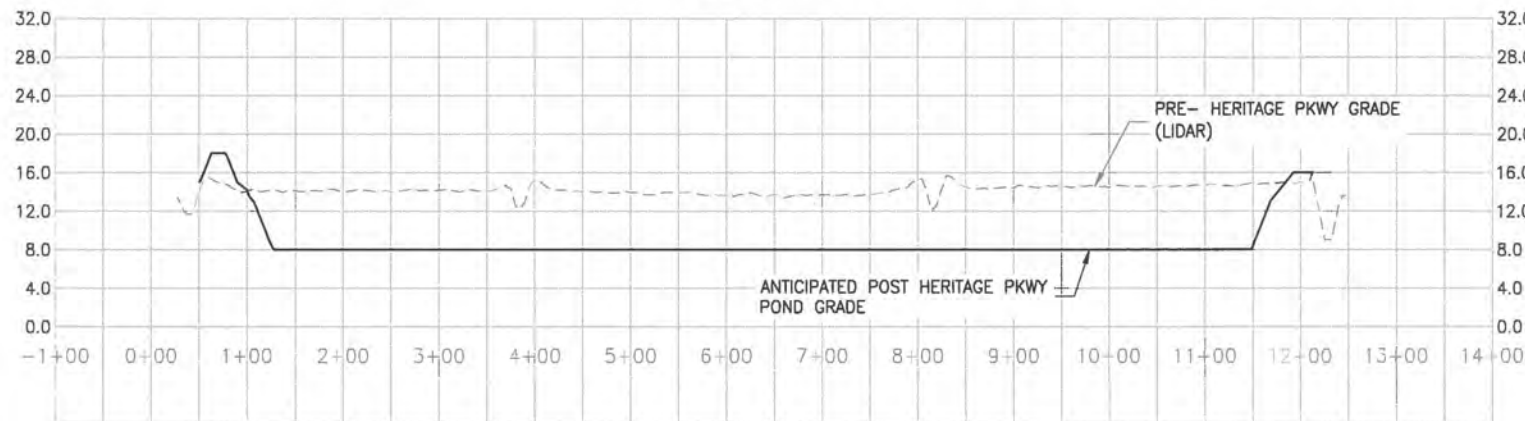
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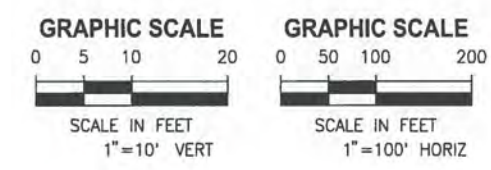
SECTION A
1"=100' H
1"=10' V
C1-2
NOT IN CONTRACT



SECTION B
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1"=10' V
C1-2
NOT IN CONTRACT



SECTION C
1"=100' H
1"=10' V
C1-2
NOT IN CONTRACT

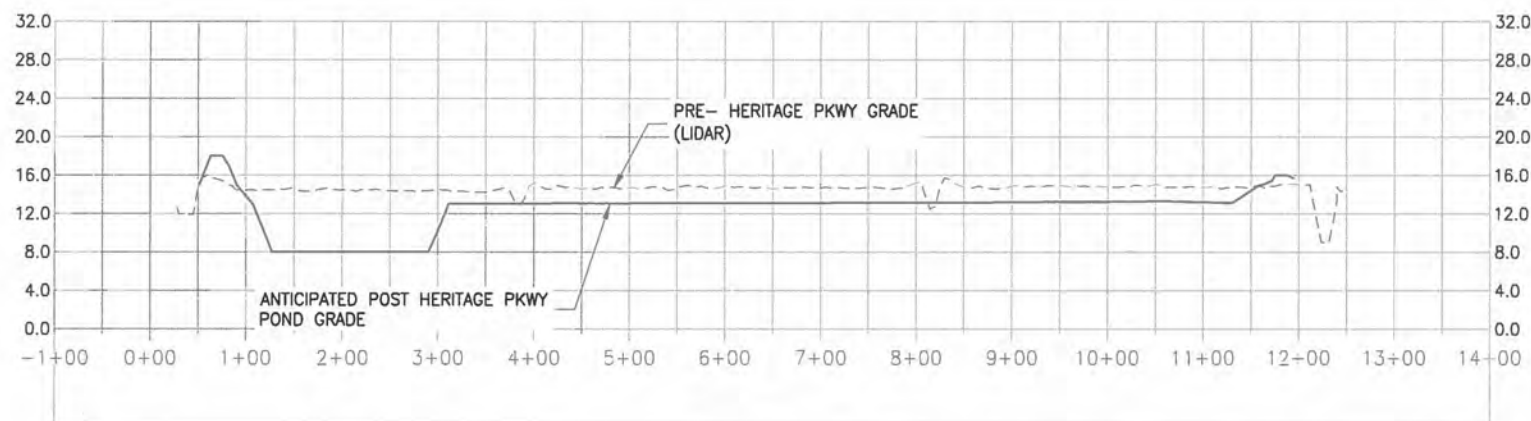


NOT FOR CONSTRUCTION

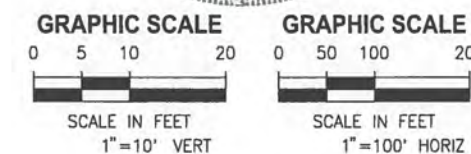
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<table border="1"> <tr> <td>DESIGNED</td> <td>A GOODDEN</td> </tr> <tr> <td>DRAWN</td> <td>D HAUBRICH</td> </tr> <tr> <td>CHECKED</td> <td>R KOLLER</td> </tr> </table>				DESIGNED	A GOODDEN	DRAWN	D HAUBRICH	CHECKED	R KOLLER	<p>CERTIFICATE OF AUTHORIZATION #1841 730 NE WALDO ROAD, GAINESVILLE, FLORIDA 32641 / (352) 377-5821 8657 BAYPINE ROAD SUITE 300, JACKSONVILLE, FL 32256 / (904) 744-5401</p>	<p>CRANE CREEK M-1 CANAL FLOW RESTORATION ST. JOHN'S RIVER WATER MANAGEMENT DISTRICT</p>	<p>STORMWATER TREATMENT AREA SECTIONS</p>	<p>CERTIFICATE OF AUTHORIZATION #1841</p>		PROJECT NO:	DATE:
DESIGNED	A GOODDEN															
DRAWN	D HAUBRICH															
CHECKED	R KOLLER															
LTR.	DATE	REVISIONS	BY	APPRD.	A. GOODDEN P.E. # 60097	19750-066-01	DEC 2019									
						INDEX NO:	DWG NO:									
							C1-12									

PLOTTED: 1/20/2020 11:55 AM DEAN HAUBRICH



SECTION D
 1" = 100' H
 1" = 10' V
NOT IN CONTRACT



NOT FOR CONSTRUCTION

Y:\19750-SJRWMD\PROJECTS\066-01_CRANE_CREEK_M-1_FLOW_RESTORATION_DESIGN\CAD\DWGS\CIVIL\C1-13.DWG
 12/18/2019 1:44 PM DHAUBRICH

DESIGNED	A GOODDEN			
DRAWN	D HAUBRICH			
CHECKED	R KOLLER			
LTR.	DATE	REVISIONS	BY	APPRD.

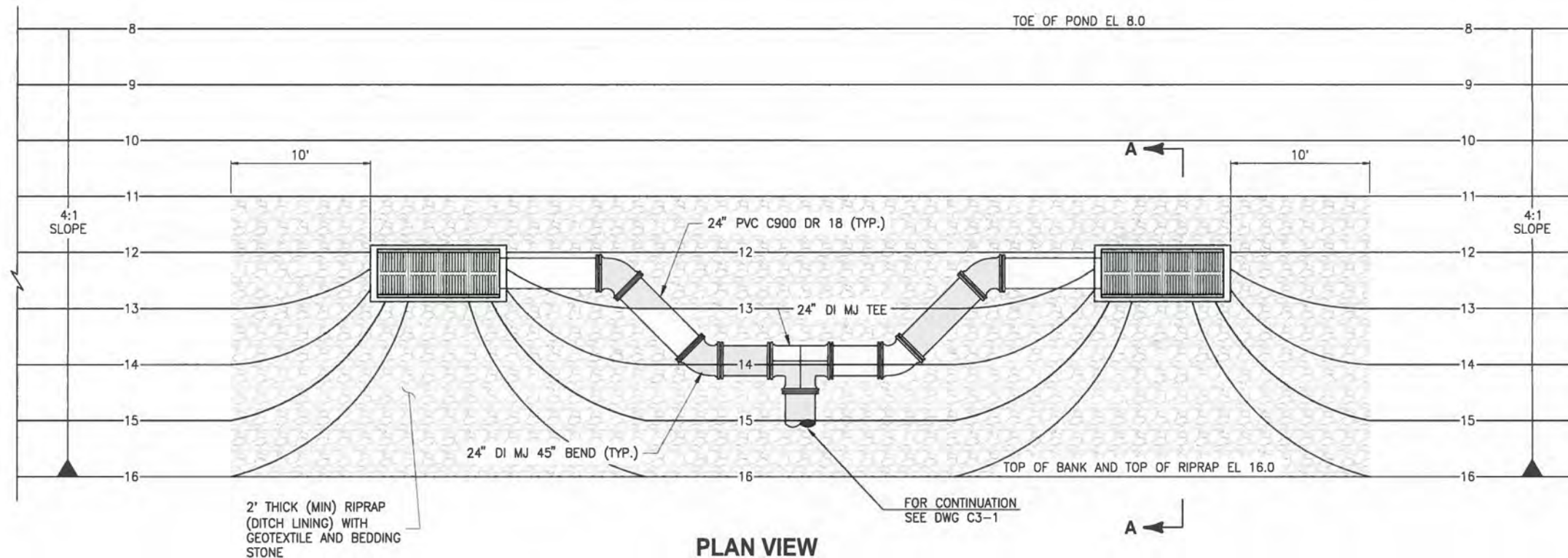
JonesEdmunds
 CERTIFICATE OF AUTHORIZATION #1841
 730 NE WALDO ROAD, GAINESVILLE, FLORIDA 32641 / (352) 377-5821
 8657 BAYPINE ROAD SUITE 300, JACKSONVILLE, FL 32256 / (904) 744-5401

CRANE CREEK M-1 CANAL FLOW RESTORATION
 ST. JOHN'S RIVER WATER MANAGEMENT DISTRICT

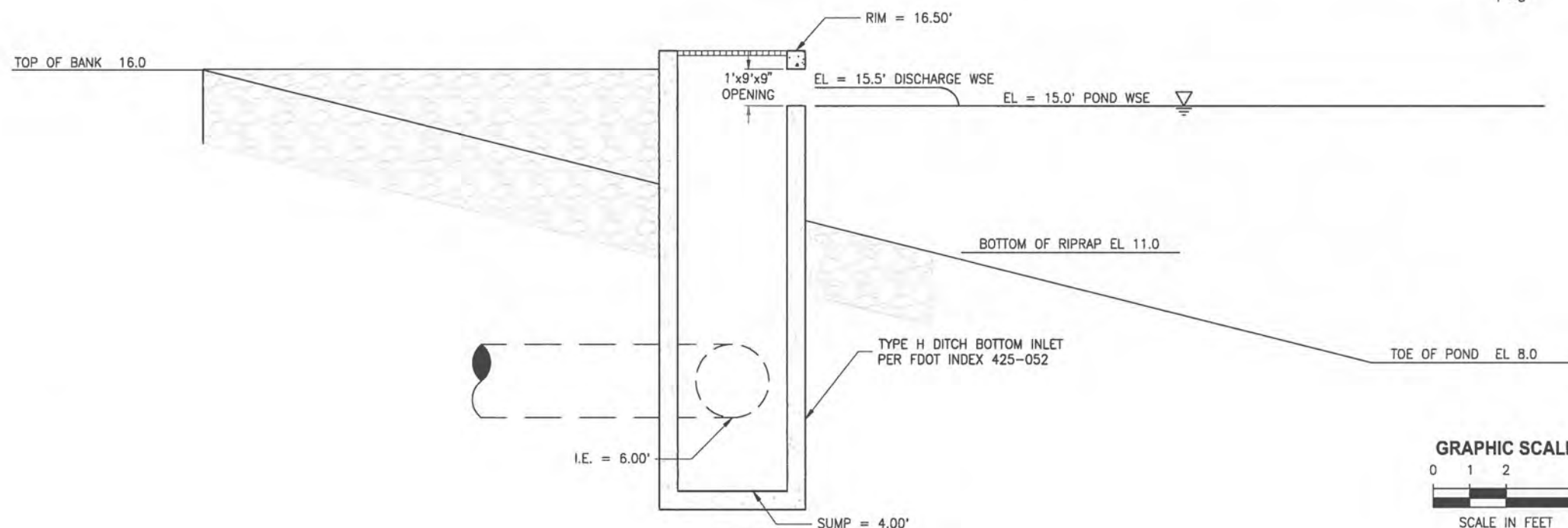
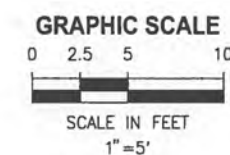
STORMWATER TREATMENT AREA
 SECTIONS

CERTIFICATE OF AUTHORIZATION #1841	PROJECT NO:	DATE:
APPROVED BY	19750-066-01	DEC 2019
A. GOODDEN	INDEX NO:	DWG NO:
P.E. # 60097		C1-13

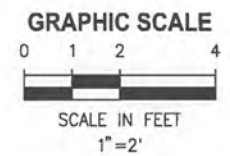
PLOTTED: 1/20/2020 11:55 AM DEAN HAUBRICH



PLAN VIEW
1"=5'



SECTION A-A
1"=2'



NOT FOR CONSTRUCTION

SAVED: 12/19/2019 10:08 AM DHAUBRICH Y:\19750-SURWMD\PROJECTS\066-01_CRANE_CREEK_M-1_FLOW_RESTORATION_DESIGN\CAD\DWGS\CIVIL\C1-14.DWG

DESIGNED	A GOODDEN			
DRAWN	D HAUBRICH			
CHECKED	R KOLLER			
LTR	DATE	REVISIONS	BY	APPRD.

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 8657 BAYPINE ROAD SUITE 300, JACKSONVILLE, FL 32256 / (904) 744-5401

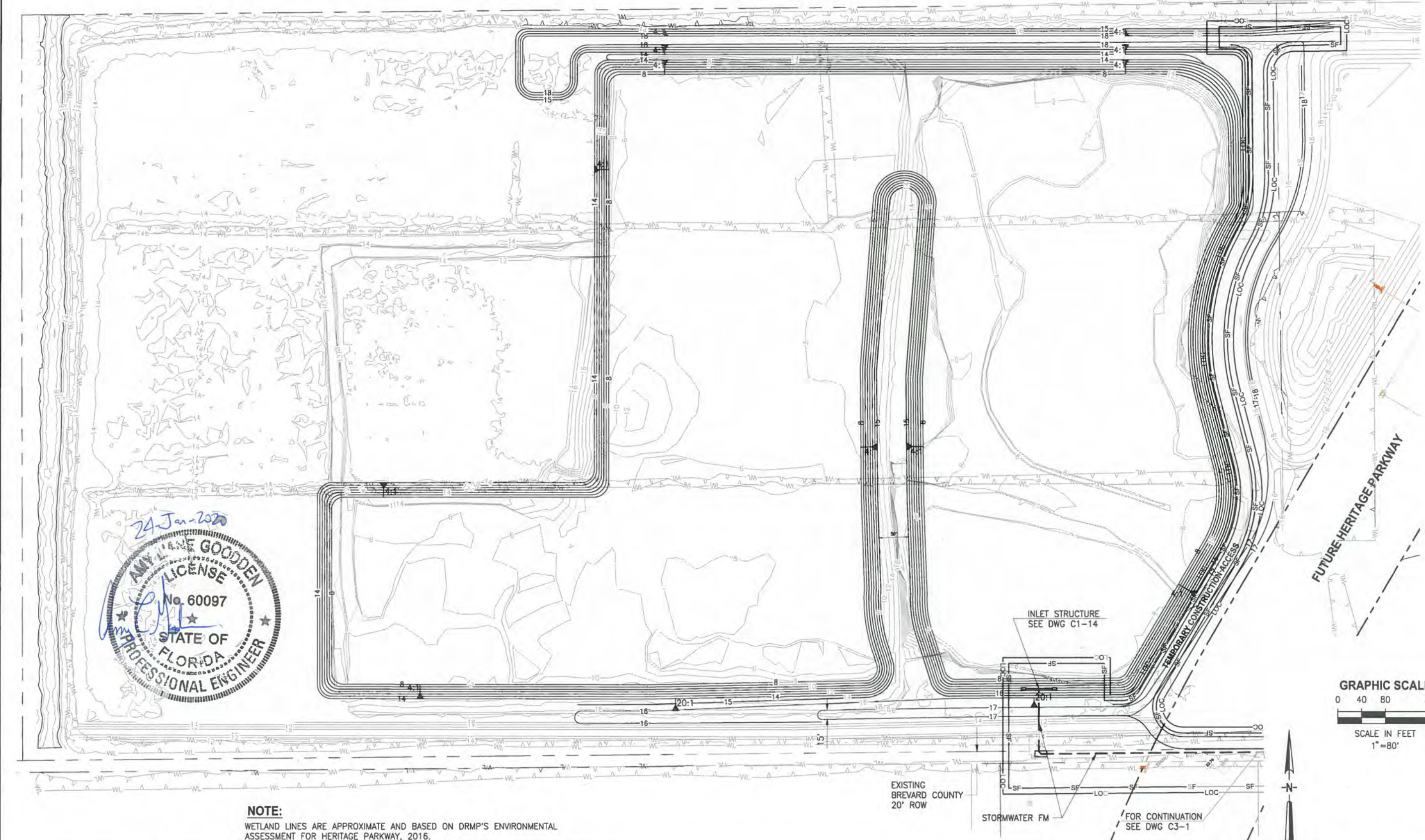
CRANE CREEK M-1 CANAL FLOW RESTORATION
ST. JOHN'S RIVER WATER MANAGEMENT DISTRICT

STORMWATER TREATMENT AREA
INLET DETAILS

CERTIFICATE OF AUTHORIZATION #1841	PROJECT NO:	DATE:
APPROVED BY	19750-066-01	DEC 2019
A. GOODDEN	INDEX NO:	DWG NO:
P.E. # 60097		C1-14

PLOTTED: 1/20/2020 11:56 AM DEAN HAUBRICH

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 11/15/2019 11:07 AM DHAUBRICH



NOTE:
 WETLAND LINES ARE APPROXIMATE AND BASED ON DRMP'S ENVIRONMENTAL ASSESSMENT FOR HERITAGE PARKWAY, 2016.

INLET STRUCTURE
 SEE DWG C1-14

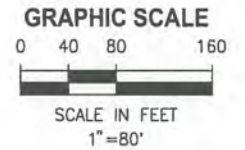
TEMPORARY CONSTRUCTION ACCESS

FUTURE HERITAGE PARKWAY

EXISTING BREVARD COUNTY
 20' ROW

STORMWATER FM

FOR CONTINUATION
 SEE DWG C3-1



NOT FOR CONSTRUCTION

LTR	DATE	REVISIONS	BY	APPR.

DESIGNED	A GOODDEN
DRAWN	D HAUBRICH
CHECKED	R KOLLER

JonesEdmunds
 CERTIFICATE OF AUTHORIZATION #1841
 730 NE WALDO ROAD, GAINESVILLE, FLORIDA 32641 / (352) 377-5821
 8657 BAYPINE ROAD SUITE 300, JACKSONVILLE, FL 32256 / (904) 744-5401

CRANE CREEK M-1 CANAL FLOW RESTORATION
ST. JOHN'S RIVER WATER MANAGEMENT DISTRICT

STORMWATER TREATMENT AREA
EROSION CONTROL PLAN

CERTIFICATE OF AUTHORIZATION #1841
APPROVED BY
A. GOODDEN
P.E. # 60097

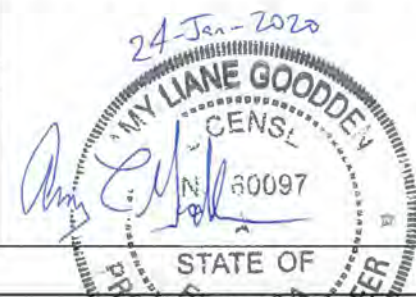
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INDEX NO:		DWG NO:	EC1-1

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SAVED: 11/14/2019 2:56 PM DHAUBRICH Y:\19750-SURWMD\PROJECTS\066-01_CRANE_CREEK_M-1_FLOW_RESTORATION_DESIGN\CAD\DWGS\ENV\ECT1-2.DWG

CONTRACTOR REQUIREMENTS

SITE DESCRIPTION	GENERAL	SPILL PREVENTION	MAINTENANCE/INSPECTION PROCEDURES																									
<p>PROJECT NAME(S) AND LOCATION: CRANE CREEK M-1 CANAL FLOW RESTORATION, STORMWATER TREATMENT AREA</p> <p>COUNTY: SECTIONS 34, TOWNSHIP 27; RANGE 36</p> <p>PROPERTY OWNER AND ADDRESS: ATTN: JOHN DENNINGHOFF, ASSISTANT COUNTY MANAGER BREVARD COUNTY 2725 JUDGE FRAY JAMIESON WAY MELBOURNE, FLORIDA 32940</p> <p>DESCRIPTION: THIS PROJECT WILL CONSIST OF: THE CONSTRUCTION OF POND INLET AND ASSOCIATED GRADING.</p> <p>SOIL DISTURBING ACTIVITIES WILL INCLUDE: CLEARING, GRUBBING; INSTALLING STABILIZED CONSTRUCTION ENTRANCE, PERIMETER, AND OTHER EROSION AND SEDIMENT CONTROLS.</p> <p>SOILS: SEE GEOTECHNICAL REPORT FOR SOILS DATA.</p> <p>SITE MAPS: SEE ATTACHED GRADING PLAN FOR PRE & POST DEVELOPMENT GRADES, AREAS OF SOILS, DISTURBANCE, LOCATION OF SURFACE WATERS, WETLANDS, PROTECTED AREAS, MAJOR STRUCTURAL AND NONSTRUCTURAL CONTROLS AND STORM WATER DISCHARGE POINTS. SEE ATTACHED EROSION & TURBIDITY CONTROL PLAN FOR LOCATION OF TEMPORARY STABILIZATION PRACTICES, AND TURBIDITY BARRIERS. SEE GENERAL NOTES AND SPECIFICATIONS FOR REQUIREMENTS FOR TEMPORARY AND PERMANENT STABILIZATION.</p> <p>SITE AREA: TOTAL AREA OF SITE - 57.0 ACRES TOTAL AREA TO BE DISTURBED - GREATER THAN 1 ACRE</p> <p>NAME OF RECEIVING WATERS: ST JOHN'S RIVER BY WAY OF FLOODPLAIN WETLANDS.</p>	<p>SEQUENCE OF MAJOR ACTIVITIES</p> <ol style="list-style-type: none"> COMPLETE AND SUBMIT NOTICE OF INTENT (NOI) TO FDEP. INSTALL STABILIZED CONSTRUCTION ENTRANCES. INSTALL SILT FENCES AND OTHER EROSION CONTROL DEVICES. STOCK PILE TOP SOIL AS REQUIRED. PERFORM PRELIMINARY GRADING ON SITE AS REQUIRED. STABILIZE CLEARED AREAS AND STOCKPILES AS SOON AS PRACTICABLE. CONSTRUCT INLET PIPING. CONSTRUCT BIOACTIVATED MEDIA FILTER. COMPLETE GRADING AND INSTALL PERMANENT SEEDING/SOD. WHEN ALL CONSTRUCTION ACTIVITY IS COMPLETE AND THE SITE IS STABILIZED, REMOVE ANY TEMPORARY DIVERSION SWALES/DIKES AND RESEED/SOD AS REQUIRED. COMPLETE AND SUBMIT NOTICE OF TERMINATION (NOT) TO FDEP. <p>CONTROLS</p> <p>IT IS THE CONTRACTORS RESPONSIBILITY TO IMPLEMENT THE EROSION AND TURBIDITY CONTROLS AS SHOWN ON THE SEDIMENT AND EROSION CONTROL PLAN. IT IS ALSO THE CONTRACTORS RESPONSIBILITY TO ENSURE THESE CONTROLS ARE PROPERLY INSTALLED, MAINTAINED AND FUNCTIONING PROPERLY TO PREVENT TURBID OR POLLUTED WATER FROM LEAVING THE PROJECT SITE. THE CONTRACTOR WILL ADJUST THE EROSION CONTROL PLAN AND ADD ADDITIONAL CONTROL MEASURES, AS REQUIRED, TO ENSURE THE SITE MEETS ALL FEDERAL STATE AND LOCAL EROSION AND SEDIMENT CONTROL PLAN AND AS REQUIRED TO MEET THE SEDIMENT AND TURBIDITY REQUIREMENTS IMPOSED ON THE PROJECT SITE BY THE REGULATORY AGENCIES.</p> <p>EROSION AND SEDIMENT CONTROLS</p> <p>STABILIZATION PRACTICES</p> <ol style="list-style-type: none"> FILTER FABRIC BARRIER: FILTER FABRIC BARRIERS CAN BE USED BELOW DISTURBED AREAS SUBJECT TO SHEET AND RILL EROSION WITH THE FOLLOWING LIMITATIONS: A. WHERE THE MAXIMUM SLOPE BEHIND THE BARRIER IS 33 PERCENT. B. IN MINOR SWALES OR DITCH LINES WHERE THE MAXIMUM CONTRIBUTING DRAINAGE AREA IS NO GREATER THAN 2.0 ACRES. BRUSH BARRIER WITH FILTER FABRIC: BRUSH BARRIER MAY BE USED BELOW DISTURBED AREAS SUBJECT TO SHEET AND RILL EROSION WHERE ENOUGH RESIDUE MATERIAL IS AVAILABLE ON SITE. STOCKPILING MATERIAL: NO EXCAVATED MATERIAL SHALL BE STOCKPILED IN SUCH A MANNER AS TO DIRECT RUNOFF DIRECTLY OFF THE PROJECT SITE INTO ANY ADJACENT WATER BODY OR STORM WATER COLLECTION FACILITY. EXPOSED AREA LIMITATION: THE SURFACE AREA OF OPEN, ERODIBLE SOIL EXPOSED BY CLEARING GRUBBING OPERATIONS OR EXCAVATION AND FILLING OPERATIONS SHALL NOT EXCEED 2.0 ACRES. THIS REQUIREMENT MAY BE WAIVED BY THE OWNER WITH A DETAILED EROSION CONTROL PLAN PREPARED BY THE CONTRACTOR. THE DETAILED PLAN MUST INCLUDE A SCHEDULE, DESCRIPTION OF CONSTRUCTION MEANS AND METHODS AND EROSION CONTROL MANAGEMENT PRACTICES WHICH DEMONSTRATES THAT OPENING OF ADDITIONAL AREA WILL NOT SIGNIFICANTLY AFFECT OFF-SITE DEPOSIT OF SEDIMENTS. TEMPORARY SEEDING: AREAS OPENED BY CONSTRUCTION OPERATIONS AND THAT ARE NOT ANTICIPATED TO BE RE-EXCAVATED OR DRESSED AND RECEIVE FINAL GRASSING TREATMENT WITHIN 21 DAYS SHALL BE SEEDING WITH A QUICK GROWING GRASS SPECIES WHICH WILL PROVIDE AN EARLY COVER DURING THE SEASON IN WHICH IT IS PLANTED AND WILL NOT LATER COMPETE WITH THE PERMANENT GRASSING. <p>INVENTORY FOR POLLUTION PREVENTION PLAN</p> <p>THE MATERIAL OR SUBSTANCES LISTED BELOW ARE EXPECTED TO BE PRESENT ONSITE DURING CONSTRUCTION:</p> <table border="1"> <tr> <td>CONCRETE</td> <td>FERTILIZERS</td> <td>WOOD</td> </tr> <tr> <td>DETERGENTS</td> <td>PETROLEUM BASED PRODUCTS</td> <td></td> </tr> <tr> <td></td> <td>CLEANING SOLVENTS</td> <td></td> </tr> <tr> <td></td> <td>PAINTS</td> <td></td> </tr> </table>	CONCRETE	FERTILIZERS	WOOD	DETERGENTS	PETROLEUM BASED PRODUCTS			CLEANING SOLVENTS			PAINTS		<p>6. TEMPORARY REGRASSING: IF, AFTER 14 DAYS FROM SEEDING, THE TEMPORARY GRASSED AREAS HAVE NOT MAINTAINED A MINIMUM OF 75 PERCENT GOOD GRASS COVER, THE AREA WILL BE REWORKED AND ADDITIONAL SEED APPLIED SUFFICIENT TO ESTABLISH THE DESIRED VEGETATIVE COVER.</p> <p>7. MAINTENANCE: ALL FEATURES OF THE PROJECT DESIGNED AND CONSTRUCTED TO PREVENT EROSION AND SEDIMENT SHALL BE MAINTAINED DURING THE LIFE OF THE CONSTRUCTION SO AS TO FUNCTION AS THEY WERE ORIGINALLY DESIGNED AND CONSTRUCTED.</p> <p>8. PERMANENT EROSION CONTROL: THE EROSION CONTROL FACILITIES OF THE PROJECT SHOULD BE DESIGNED TO MINIMIZE THE IMPACT ON THE OFFSITE FACILITIES.</p> <p>9. PERMANENT SEEDING: ALL AREAS WHICH HAVE BEEN DISTURBED BY CONSTRUCTION WILL BE SEEDING.</p> <p>SPILL CONTROL PRACTICES</p> <p>IN ADDITION TO THE GOOD HOUSEKEEPING AND MATERIAL MANAGEMENT PRACTICES DISCUSSED IN THE PREVIOUS SECTIONS OF THIS PLAN, THE FOLLOWING PRACTICES WILL BE FOLLOWED FOR SPILL PREVENTION AND CLEANUP:</p> <p>MANUFACTURERS' RECOMMENDED METHODS FOR SPILL CLEANUP WILL BE CLEARLY POSTED ON SITE AND SITE PERSONNEL WILL BE MADE AWARE OF THE METHODS AND POSTED LOCATION.</p> <p>MATERIALS AND EQUIPMENT NECESSARY FOR SPILL CLEANUP WILL BE KEPT IN THE MATERIAL STORAGE AREA ONSITE. EQUIPMENT AND MATERIALS WILL INCLUDE, BUT NOT BE LIMITED TO BROOMS, DUST PANS, MOPS, RAGS, GLOVES, GOGGLES, LIQUID ABSORBENT (I.E. KITTY LITTER OR EQUAL), SAND SAWDUST, AND PLASTIC AND METAL TRASH CONTAINERS SPECIFICALLY FOR THIS PURPOSE.</p> <p>ALL SPILLS WILL BE CLEANED UP IMMEDIATELY AFTER DISCOVERY.</p> <p>THE SPILL AREA WILL BE KEPT WELL VENTILATED AND PERSONNEL WILL WEAR APPROPRIATE PROTECTIVE CLOTHING TO PREVENT INJURY FROM CONTACT WITH A HAZARDOUS SUBSTANCE.</p> <p>SPILL OF TOXIC OR HAZARDOUS MATERIAL WILL BE REPORTED IMMEDIATELY TO THE OWNER.</p> <p>THE SPILL PREVENTION PLAN WILL BE ADJUSTED TO INCLUDE MEASURES TO PREVENT THIS TYPE OF SPILL FROM REOCCURRING AND HOW TO CLEAN UP THE SPILL IF THERE IS ANOTHER ONE. A DESCRIPTION OF THE SPILL, WHAT CAUSED IT, AND THE CLEANUP MEASURES WILL ALSO BE INCLUDED.</p> <p>THE SITE SUPERINTENDENT RESPONSIBLE FOR THE DAY-TO-DAY SITE OPERATIONS, WILL BE THE SPILL PREVENTION AND CLEANUP COORDINATOR. HE/SHE WILL DESIGNATE AT LEAST ONE OTHER SITE PERSONNEL WHO WILL RECEIVE SPILL PREVENTION AND CLEANUP TRAINING. THESE INDIVIDUALS WILL EACH BECOME RESPONSIBLE FOR A PARTICULAR PHASE OF PREVENTION AND CLEANUP. THE NAMES OF RESPONSIBLE SPILL PERSONNEL WILL BE POSTED IN THE MATERIAL STORAGE AREA AND IF APPLICABLE, IN THE OFFICE TRAILER ONSITE.</p>	<p>MATERIAL MANAGEMENT PRACTICES</p> <p>THE FOLLOWING ARE THE MATERIAL MANAGEMENT PRACTICES THAT WILL BE USED TO REDUCE THE RISK OF SPILLS OR OTHER ACCIDENTAL EXPOSURE OF MATERIALS AND SUBSTANCES TO STORM WATER RUNOFF.</p> <p>GOOD HOUSEKEEPING</p> <p>THE FOLLOWING GOOD HOUSEKEEPING PRACTICES WILL BE FOLLOWED ONSITE DURING THE CONSTRUCTION PROJECT.</p> <p>AN EFFORT WILL BE MADE TO STORE ONLY ENOUGH PRODUCT REQUIRED TO DO THE JOB.</p> <p>ALL MATERIALS STORED ONSITE WILL BE STORED IN A NEAT, ORDERLY MANNER IN THEIR APPROPRIATE CONTAINERS AND, IF POSSIBLE, UNDER A ROOF OR OTHER ENCLOSURE.</p> <p>PRODUCTS WILL BE KEPT IN THEIR ORIGINAL CONTAINERS WITH THE ORIGINAL MANUFACTURER'S LABEL.</p> <p>SUBSTANCES WILL NOT BE MIXED WITH ONE ANOTHER UNLESS RECOMMENDED BY THE MANUFACTURER.</p> <p>WHENEVER POSSIBLE, ALL OF A PRODUCT WILL BE USED UP BEFORE DISPOSING OF THE CONTAINER.</p> <p>MANUFACTURER'S RECOMMENDATIONS FOR PROPER USE AND DISPOSAL WILL BE FOLLOWED.</p> <p>HAZARDOUS PRODUCTS</p> <p>THESE PRACTICES ARE USED TO REDUCE THE RISKS ASSOCIATED WITH HAZARDOUS MATERIALS.</p> <p>PRODUCTS WILL BE KEPT IN ORIGINAL CONTAINERS UNLESS THEY ARE NOT RESEALABLE.</p> <p>ORIGINAL LABELS AND MATERIAL SAFETY DATA WILL BE RETAINED; THEY CONTAIN IMPORTANT PRODUCT INFORMATION.</p> <p>IF SURPLUS PRODUCT MUST BE DISPOSED OF MANUFACTURER'S OR LOCAL AND STATE RECOMMENDED METHODS FOR PROPER DISPOSAL WILL BE FOLLOWED.</p> <p>PRODUCT SPECIFIC PRACTICES</p> <p>THE FOLLOWING PRODUCT SPECIFIC PRACTICES WILL BE FOLLOWED ONSITE:</p> <p>PETROLEUM PRODUCTS</p> <p>ALL ONSITE VEHICLES WILL BE MONITORED FOR LEAKS AND RECEIVE REGULAR PREVENTATIVE MAINTENANCE TO REDUCE THE CHANCE OF LEAKAGE. PETROLEUM PRODUCTS WILL BE STORED IN TIGHTLY SEALED CONTAINERS WHICH ARE CLEARLY LABELED. ANY ASPHALT SUBSTANCES USED ONSITE WILL BE APPLIED ACCORDING TO THE MANUFACTURER'S RECOMMENDATIONS.</p> <p>FERTILIZERS</p> <p>FERTILIZERS USED WILL BE APPLIED ONLY IN THE MINIMUM AMOUNTS RECOMMENDED BY THE MANUFACTURER. ONCE APPLIED, FERTILIZER WILL BE WORKED INTO THE SOIL TO LIMIT EXPOSURE TO STORM WATER. STORAGE WILL BE IN A COVERED AREA. THE CONTENTS OF ANY PARTIALLY USED BAGS OF FERTILIZER WILL BE TRANSFERRED TO A SEALABLE PLASTIC BIN TO AVOID SPILLS.</p> <p>PAINTS</p> <p>ALL CONTAINERS WILL BE TIGHTLY SEALED AND STORED WHEN NOT REQUIRED FOR USE. EXCESS PAINT WILL NOT BE DISCHARGED TO THE STORM SEWER SYSTEM BUT WILL BE PROPERLY DISPOSED OF ACCORDING TO MANUFACTURERS' INSTRUCTIONS OR STATE AND LOCAL REGULATIONS.</p> <p>CONCRETE TRUCKS</p> <p>CONCRETE TRUCKS WILL NOT BE ALLOWED TO WASH OUT OR DISCHARGE SURPLUS CONCRETE OR DRUM WASH WATER TO DITCHES, PONDS OR OTHER WATERWAYS. WASHWATER SHALL BE COLLECTED IN A TEMPORARY SETTLING POND.</p> <p>OTHER CONTROLS</p> <p>WASTE DISPOSAL</p> <p>WASTE MATERIALS</p> <p>ALL WASTE MATERIALS EXCEPT LAND CLEARING DEBRIS SHALL BE COLLECTED AND STORED IN A METAL DUMPSTER. THE DUMPSTER WILL MEET ALL LOCAL AND STATE SOLID WASTE MANAGEMENT REGULATIONS. THE DUMPSTER WILL BE EMPTIED AS NEEDED AND THE TRASH WILL BE HAULED TO A STATE APPROVED LANDFILL. ALL PERSONNEL WILL BE INSTRUCTED REGARDING THE CORRECT PROCEDURE FOR WASTE DISPOSAL. NOTICES STATING THESE PRACTICES WILL BE POSTED AT THE CONSTRUCTION SITE BY THE CONSTRUCTION SUPERINTENDENT, THE INDIVIDUAL WHO MANAGES THE DAY-TO-DAY SITE OPERATIONS, WILL BE RESPONSIBLE FOR SEEING THAT THESE PRACTICES ARE FOLLOWED.</p> <p>HAZARDOUS WASTE</p> <p>ALL HAZARDOUS WASTE MATERIALS WILL BE DISPOSED OF IN THE MANNER SPECIFIED BY LOCAL OR STATE REGULATION OR BY THE MANUFACTURER. SITE PERSONNEL WILL BE INSTRUCTED IN THESE PRACTICES AND THE SITE SUPERINTENDENT, THE INDIVIDUAL WHO MANAGES DAY-TO-DAY SITE OPERATIONS, WILL BE RESPONSIBLE FOR SEEING THAT THESE PRACTICES ARE FOLLOWED.</p> <p>SANITARY WASTE</p> <p>ALL SANITARY WASTE WILL BE COLLECTED FROM THE PORTABLE UNITS AS NEEDED TO PREVENT POSSIBLE SPILLAGE. THE WASTE WILL BE COLLECTED AND DISPOSED OF IN ACCORDANCE WITH STATE AND LOCAL WASTE DISPOSAL REGULATIONS FOR SANITARY SEWER OR SEPTIC SYSTEMS.</p> <p>OFFSITE VEHICLE TRACKING</p> <p>A STABILIZED CONSTRUCTION ENTRANCE WILL BE PROVIDED TO HELP REDUCE VEHICLE TRACKING OF SEDIMENTS. THE PAVED AREA ADJACENT TO THE SITE ENTRANCE WILL BE SWEEPED DAILY TO REMOVE ANY EXCESS MUD, DIRT OR ROCK TRACKED FROM THE SITE. DUMP TRUCKS HAULING MATERIAL FROM THE CONSTRUCTION SITE WILL BE COVERED WITH A TARP.</p>	<p>EROSION AND SEDIMENT CONTROL INSPECTION AND MAINTENANCE PRACTICES</p> <p>THE FOLLOWING ARE INSPECTION AND MAINTENANCE PRACTICES THAT WILL BE USED TO MAINTAIN EROSION AND SEDIMENT CONTROLS.</p> <p>NO MORE THAN 2 ACRES OF THE SITE WILL BE CLEARED AT ONE TIME WITHOUT WRITTEN PERMISSION FROM THE ENGINEER.</p> <p>ALL CONTROL MEASURES WILL BE INSPECTED BY A CERTIFIED SUPERINTENDENT, THE PERSON RESPONSIBLE FOR THE DAY-TO-DAY SITE OPERATION OR SOMEONE APPOINTED BY THE SUPERINTENDENT, AT LEAST ONCE A WEEK AND WITHIN 24 HOURS OF THE END OF ANY STORM EVENT OF 1/2" OR GREATER.</p> <p>ALL TURBIDITY CONTROL MEASURES WILL BE MAINTAINED IN GOOD WORKING ORDER; IF A REPAIR IS NECESSARY, IT WILL BE INITIATED WITHIN 24 HOURS OF REPORT.</p> <p>BUILT UP SEDIMENT WILL BE REMOVED FROM SILT FENCE WHEN IT HAS REACHED ONE-THIRD THE HEIGHT OF THE FENCE.</p> <p>SILT FENCE WILL BE INSPECTED FOR DEPTH OF SEDIMENT, TEARS, TO SEE IF THE FABRIC IS SECURELY ATTACHED TO THE FENCE POSTS, AND TO SEE THAT THE FENCE POSTS ARE FIRMLY IN THE GROUND.</p> <p>CONSTRUCTION ENTRANCES WILL BE INSPECTED FOR DEPTH OF CRUSHED STONE BED AND FILTER FABRIC CONDITION. THE BED SHALL HAVE A 6" THICKNESS AND THE FILTER FABRIC SHALL BE FREE OF TEARS AND FIRMLY SECURE. ENTRANCES SHALL BE REMOVED PRIOR TO CONSTRUCTION OF DRIVEWAYS.</p> <p>TEMPORARY AND PERMANENT SEEDING AND PLANTING WILL BE INSPECTED FOR BARE SPOTS, WASHOUTS, AND HEALTHY GROWTH.</p> <p>A MAINTENANCE INSPECTION REPORT WILL BE MADE AFTER EACH INSPECTION. COPY OF THE REPORT FORM TO BE COMPLETED BY THE INSPECTOR IS ATTACHED. THE REPORTS WILL BE KEPT ON SITE DURING CONSTRUCTION AND AVAILABLE UPON REQUEST TO THE OWNER, ENGINEER OR ANY FEDERAL, STATE, AND LOCAL AGENCY APPROVING SEDIMENT AND EROSION PLANS, OR STORM WATER MANAGEMENT PLANS. THE REPORTS SHALL BE MADE AND RETAINED AS PART OF THE STORM WATER POLLUTION PREVENTION PLAN FOR AT LEAST THREE YEARS FROM THE DATE THAT THE SITE IS FINALLY STABILIZED AND THE NOTICE OF TERMINATION IS SUBMITTED. THE REPORTS SHALL IDENTIFY ANY INCIDENTS OF NON-COMPLIANCE.</p> <p>THE SITE SUPERINTENDENT WILL SELECT UP TO THREE CERTIFIED INDIVIDUALS WHO WILL BE RESPONSIBLE FOR INSPECTIONS, MAINTENANCE AND REPAIR ACTIVITIES, AND FILLING OUT THE INSPECTION AND MAINTENANCE REPORT.</p> <p>PERSONNEL SELECTED FOR INSPECTION AND MAINTENANCE RESPONSIBILITIES WILL RECEIVE TRAINING FROM THE SITE SUPERINTENDENT AND MUST ENFORCE THE FDEP NPDES SWPPP FOR THIS PROJECT. THEY WILL BE TRAINED IN ALL THE INSPECTION AND MAINTENANCE PRACTICES NECESSARY FOR KEEPING THE EROSION AND SEDIMENT CONTROLS USED ONSITE IN GOOD WORKING ORDER.</p> <p>NON-STORM WATER DISCHARGES</p> <p>IT IS EXPECTED THAT THE FOLLOWING NON-STORM WATER DISCHARGES WILL OCCUR FROM THE SITE DURING THE CONSTRUCTION PERIOD.</p> <p>UNCONTAMINATED GROUNDWATER (FROM DEWATERING EXCAVATION).</p> <p>ALL NON-STORM WATER DISCHARGES WILL BE DIRECTED TO THE SEDIMENT BASIN OR OTHER APPROPRIATE AREA PRIOR TO DISCHARGE TO EXISTING DITCHES OR WETLANDS.</p> <p>CONTRACTORS CERTIFICATION</p> <p>I CERTIFY UNDER PENALTY OF LAW THAT I UNDERSTAND THE TERMS AND CONDITIONS OF THE GENERAL NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) PERMIT THAT AUTHORIZES THE STORM WATER DISCHARGES ASSOCIATED WITH CONSTRUCTION ACTIVITY FROM THE SITE IDENTIFIED AS PART OF THIS CERTIFICATION.</p> <table border="1"> <tr> <td>SIGNATURE</td> <td>BUSINESS NAME & ADDRESS OF CONTRACTOR, ALL SUBS</td> <td>RESPONSIBLE FOR/DUTIES GENERAL CONTRACTOR</td> </tr> <tr> <td></td> <td></td> <td>SUBCONTRACTOR</td> </tr> <tr> <td></td> <td></td> <td>SUBCONTRACTOR</td> </tr> <tr> <td></td> <td></td> <td>SUBCONTRACTOR</td> </tr> </table>	SIGNATURE	BUSINESS NAME & ADDRESS OF CONTRACTOR, ALL SUBS	RESPONSIBLE FOR/DUTIES GENERAL CONTRACTOR			SUBCONTRACTOR			SUBCONTRACTOR			SUBCONTRACTOR
CONCRETE	FERTILIZERS	WOOD																										
DETERGENTS	PETROLEUM BASED PRODUCTS																											
	CLEANING SOLVENTS																											
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DESIGNED	A GOODDEN			
DRAWN	D HAUBRICH			
CHECKED	R KOLLER			
LTR	DATE	REVISIONS	BY	APPRO.

JonesEdmunds

CERTIFICATE OF AUTHORIZATION #1841
730 NE WALDO ROAD, GAINESVILLE, FLORIDA 32641 / (352) 377-5821
8657 BAYPINE ROAD SUITE 300, JACKSONVILLE, FL 32256 / (904) 744-5401

CRANE CREEK M-1 CANAL FLOW RESTORATION
ST. JOHN'S RIVER WATER MANAGEMENT DISTRICT

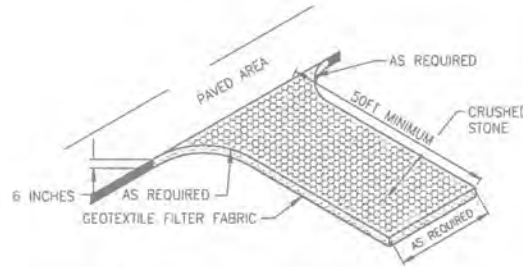
STORMWATER TREATMENT AREA
STORMWATER POLLUTION PREVENTION
NOTES

CERTIFICATE OF AUTHORIZATION #1841	PROJECT NO:	DATE:
APPROVED BY	19750-066-01	DEC 2019
A. GOODDEN	INDEX NO:	DWG NO:
P.E. # 60097		EC1-2

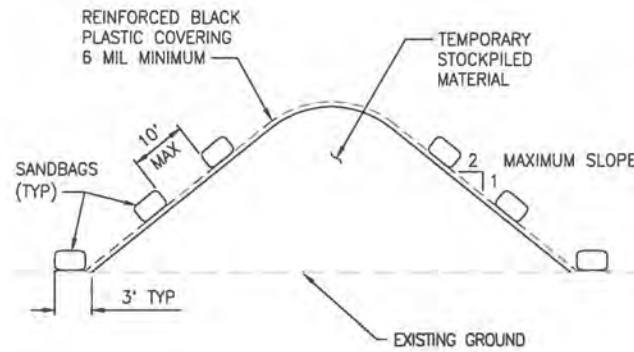
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SEDIMENT AND EROSION CONTROL NOTES

1. THE SITE CONTRACTOR SHALL MAINTAIN A CLEAR PATH FOR ALL SURFACE WATER DRAINAGE STRUCTURES AND SWALES AS WELL AS PROVIDE MEASURES TO PREVENT SILTATION OF STORMWATER TREATMENT SYSTEMS AND CONTROL STRUCTURES DURING ALL PHASES OF CONSTRUCTION. THE CONTRACTOR SHALL UTILIZE WHATEVER MEANS NECESSARY TO MANAGE STORMWATER SUCH THAT IMPACT TO CONSTRUCTION IS MINIMIZED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL WORK, INCLUDING PROVIDING EQUIPMENT, LABOR, FILL, ETC. NECESSARY TO REMEDIATE AND/OR RESTORE ALL AREAS IMPACTED BY EROSION, RUNOFF, AND STORMWATER.
2. BEST MANAGEMENT PRACTICES IN ADDITION TO THE ONES SHOWN ON THE PLAN SHEETS MUST BE PROVIDED IN ORDER TO PREVENT SILT FROM LEAVING THE PROJECT SITE DUE TO UNSEEN CONDITIONS AND ACCIDENTS.
3. CONTRACTOR SHALL INSURE THAT ALL DRAINAGE STRUCTURES, PIPES, ETC. ARE CLEANED OUT AND WORKING PROPERLY AT TIME OF ACCEPTANCE.
4. NECESSARY REPAIRS TO BARRIERS SHALL BE ACCOMPLISHED PROMPTLY.
5. ANY SEDIMENT DEPOSITS REMAINING IN PLACE, AFTER THE FILTER BARRIERS, AND OR SILT FENCES ARE NO LONGER REQUIRED, SHALL BE DRESSED TO CONFORM TO THE EXISTING GRADE, PREPARED AND SEEDED.
6. SHOULD THE FABRIC ON A SILT FENCE OR FILTER BARRIER DECOMPOSE OR SHOULD BECOME INEFFECTIVE PRIOR TO THE END OF THE EXPECTED USABLE LIFE AND THE BARRIER STILL BE NECESSARY, THE FABRIC SHALL BE REPLACED IMMEDIATELY.
7. THE STRUCTURE SHALL BE INSPECTED AFTER EACH RAIN AND REPAIRS MADE AS NEEDED.
8. THE CONTRACTOR SHALL MAINTAIN A CLEAR PATH FOR ALL SURFACE WATER DRAINAGE STRUCTURES AND SWALES AS WELL AS PROVIDE MEASURES TO PREVENT SILTATION OF STORMWATER TREATMENT SYSTEMS AND CONTROL STRUCTURES DURING ALL PHASES OF CONSTRUCTION. THE CONTRACTOR SHALL UTILIZE WHATEVER MEANS NECESSARY TO MANAGE STORMWATER SUCH THAT IMPACT TO CONSTRUCTION IS MINIMIZED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL WORK, INCLUDING PROVIDING EQUIPMENT, LABOR, FILL, ETC. NECESSARY TO REMEDIATE AND/OR RESTORE ALL AREAS IMPACTED BY EROSION, RUNOFF, AND STORMWATER.
9. FOR ADDITIONAL INFORMATION ON SEDIMENT AND EROSION CONTROL REFER TO "EROSION AND SEDIMENT CONTROL DESIGNER AND REVIEWER MANUAL" AVAILABLE AT [HTTP://WWW.FDOT.GOV/ROADWAY/DRAINAGE/FILES/EROSION-SEDIMENT-CONTROL.PDF](http://www.fdot.gov/roadway/drainage/files/erosion-sediment-control.pdf) AND "FLORIDA STORMWATER EROSION AND SEDIMENTATION CONTROL INSPECTOR'S MANUAL" AVAILABLE AT [HTTPS://WWW.DEP.STATE.FL.US/WATER/NONPOINT/DOCS/EROSION/EROSION-INSPECTORS-MANUAL.PDF](https://www.dep.state.fl.us/water/nonpoint/docs/erosion/erosion-inspectors-manual.pdf).
10. EROSION AND SEDIMENT CONTROL BARRIERS SHALL BE PLACED ADJACENT TO ALL DOWNSTREAM AREAS WHERE THERE IS POTENTIAL FOR DOWNSTREAM WATER QUALITY DEGRADATION. SEE DETAILS (THIS SHEET) FOR TYPICAL CONSTRUCTION.
11. SOD SHALL BE PLACED IN AREAS WHICH REQUIRE IMMEDIATE EROSION PROTECTION TO ENSURE WATER QUALITIES ARE MAINTAINED.
12. ANY DISCHARGE FROM DEWATERING ACTIVITY SHALL BE FILTERED AND CONVEYED TO THE OUTFALL IN A MANNER WHICH PREVENTS EROSION AND TRANSPORTATION OF SUSPENDED SOLIDS TO THE RECEIVING OUTFALLS.
13. ALL DEWATERING, EROSION, AND SEDIMENT CONTROL SHALL REMAIN IN PLACE UNTIL AFTER COMPLETION OF CONSTRUCTION, AND REMOVED ONLY WHEN AREAS HAVE BEEN STABILIZED.
14. THIS PLAN INDICATES THE MINIMUM EROSION AND SEDIMENT MEASURES REQUIRED FOR THIS PROJECT. THE CONTRACTOR IS RESPONSIBLE FOR MEETING ALL APPLICABLE RULES, REGULATIONS AND WATER QUALITY GUIDELINES AND MAY NEED TO INSTALL ADDITIONAL CONTROLS.
15. THE CONTRACTOR SHALL BE REQUIRED TO RESPOND TO ALL WATER MANAGEMENT DISTRICT INQUIRES, RELATIVE TO COMPLIANCE OF NFWMD AND FDEP FOR EROSION AND SEDIMENTATION CONTROL. THE COST OF THIS COMPLIANCE SHALL BE PART OF THE CONTRACT.
16. THE CONTRACTOR IS RESPONSIBLE FOR FOLLOWING THE BEST EROSION AND SEDIMENT CONTROL PRACTICES AS OUTLINED IN THE PLANS AND SPECIFICATIONS AND THE NFWMD AND FDEP RULES AND REGULATIONS.
17. EROSION AND SEDIMENT CONTROL BARRIERS SHALL BE PLACED ADJACENT TO ALL WETLAND AREAS AND PRESERVATION EASEMENTS WHERE THERE IS POTENTIAL FOR DOWNSTREAM WATER QUALITY DEGRADATION.
18. THESE PLANS INCLUDING THE POLLUTION PREVENTION PLAN INDICATE THE MINIMUM EROSION & SEDIMENT CONTROL MEASURES REQUIRED FOR THIS PROJECT. CONTRACTOR AS REQUIRED TO INSURE CONFORMANCE TO STATE AND FEDERAL WATER QUALITY STANDARDS AND MAY NEED TO INSTALL ADDITIONAL CONTROLS TO CONFORM TO AGENCIES REQUIREMENTS. IF A WATER QUALITY VIOLATION OCCURS, THE CONTRACTOR SHALL BE WHOLLY RESPONSIBLE FOR ALL DAMAGE AND ALL COSTS WHICH MAY RESULT INCLUDING LEGAL FEES, CONSULTANT FEES, CONSTRUCTION COSTS, AND FINES.



STABILIZED CONSTRUCTION ENTRANCE
NTS



- NOTES:**
1. ALL SEAMS SHALL BE TAPED OR WEIGHTED DOWN FULL LENGTH. ALL SEAMS SHALL HAVE A MINIMUM 12" OVERLAP.
 2. SEAMS PARALLEL TO THE SLOPE CONTOUR SHALL HAVE THE UPHILL SHEET OVERLAP THE DOWN HILL SHEET.
 3. NO SURFACE RUN-OFF SHALL BE ALLOWED TO RUN UNDER THE PLASTIC COVERING.
 4. DRAINAGE FROM AREAS COVER BY REINFORCED PLASTIC SHEETING SHALL BE CONTROLLED SUCH THAT NO DISCHARGE OCCURS DIRECTLY ONTO UNCONTROLLED DISTURBED AREAS OF THE CONSTRUCTION SITE.

TEMPORARY STOCKPILE COVERING
NTS

STORMWATER POLLUTION PREVENTION PLAN

INSPECTIONS MUST OCCUR AT LEAST ONCE A WEEK AND WITHIN 24 HOURS OF THE END OF A STORM EVENT THAT IS 0.50 INCHES OR GREATER

INSPECTOR: _____ FDEP NPDES STORMWATER IDENTIFICATION NUMBER: _____

LOCATION	RAIN DATA	TYPE OF CONTROL (SEE BELOW)	DATE INSTALLED / MODIFIED	CURRENT CONDITION (SEE BELOW)	CORRECTIVE ACTION / OTHER REMARKS

CONDITION CODE:
G = GOOD M = MARGINAL, NEEDS MAINTENANCE OR REPLACEMENT SOON P = POOR, NEEDS IMMEDIATE MAINTENANCE OR REPLACEMENT
C = NEEDS TO BE CLEARED O = OTHER

CONTROL TYPE CODES

1. SILT FENCE	10. STORM DRAIN INLET PROTECTION	19. REINFORCED SOIL RETAINING SYSTEM	28. TREE PROTECTION
2. EARTH DIKES	11. VEGETATIVE BUFFER STRIP	20. GABION	29. DETENTION POND
3. STRUCTURAL DIVISION	12. VEGETATIVE PRESERVATION AREA	21. SEDIMENT BASIN	30. RETENTION POND
4. SWALE	13. RETENTION POND	22. TEMPORARY SEED / SOO	31. WASTE DISPOSAL / HOUSEKEEPING
5. SEDIMENT TRAP	14. CONSTRUCTION ENTRANCE STABILIZATION	23. PERMANENT SEED / SOO	32. DAM
6. CHECK DAM	15. PERIMETER DITCH	24. MULCH	33. SAND BAG
8. PIPE SLOPE DRAIN	16. CURB AND CUTTER	25. HAY BALES	34. OTHER
9. LEVEL SPREADERS	17. PAVED ROAD SURFACE	26. GEOTEXTILE	
9. LEVEL SPREADERS	18. ROCK OUTLET PROTECTION	27. RIP-RAP	

INSPECTOR INFORMATION:

NAME: _____ QUALIFICATION _____ DATE _____

THE ABOVE SIGNATURE ALSO SHALL CERTIFY THAT THIS FACILITY IS IN COMPLIANCE WITH THE STORMWATER POLLUTION PREVENTION PLAN AND THE STATE OF FLORIDA GENERAL PERMIT FOR STORMWATER DISCHARGE FROM LARGE AND SMALL CONSTRUCTION ACTIVITIES IF THERE ARE NOT ANY INCIDENTS OF NON-COMPLIANCE IDENTIFIED ABOVE.

I CERTIFY UNDER PENALTY OF LAW THAT THIS DOCUMENT AND ALL ATTACHMENTS WERE PREPARED UNDER MY DIRECTION OR SUPERVISION IN ACCORDANCE WITH A SYSTEM DESIGNED TO ASSURE THAT QUALIFIED PERSONNEL PROPERLY GATHERED AND EVALUATED THE INFORMATION SUBMITTED. BASED ON MY INQUIRY OF THE PERSON OR PERSONS WHO MANAGE THE SYSTEM, OR THOSE PERSONS DIRECTLY RESPONSIBLE FOR GATHERING THE INFORMATION, THE INFORMATION SUBMITTED IS, TO THE BEST OF MY KNOWLEDGE AND BELIEF, TRUE, ACCURATE, AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT FOR KNOWING VIOLATIONS.

NAME (RESPONSIBLE AUTHORITY) _____ DATE _____

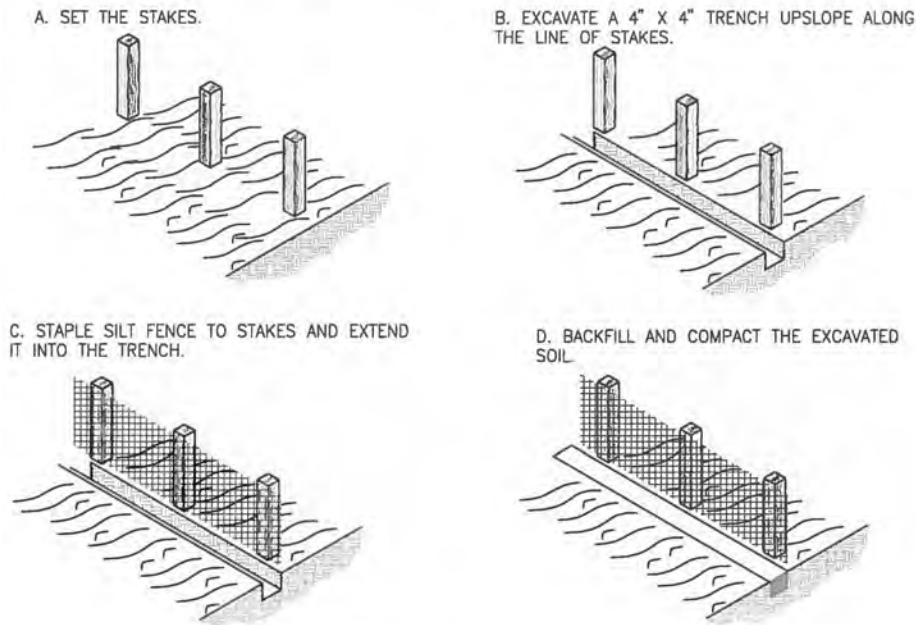


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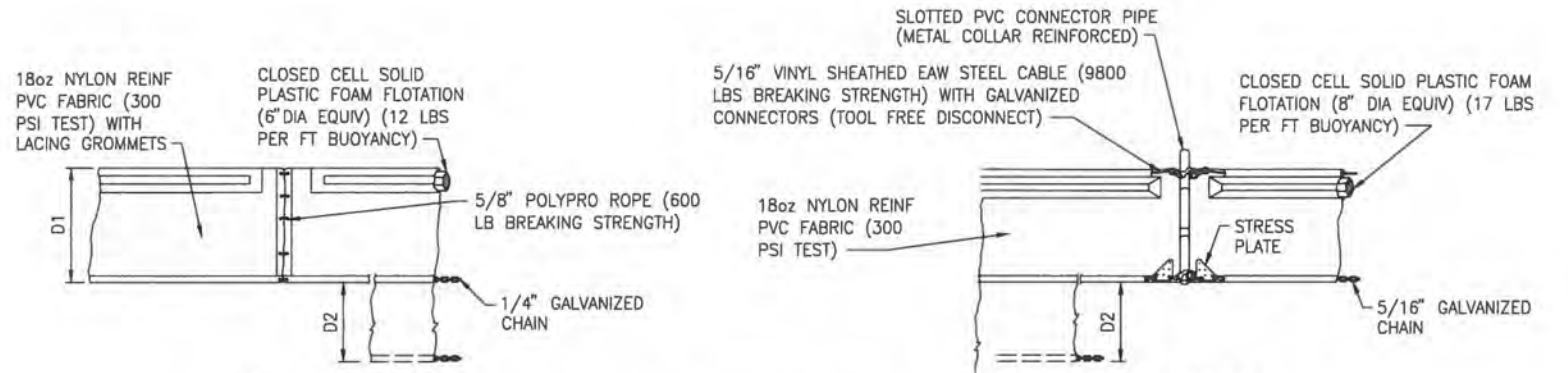
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DESIGNED <u>A GOODDEN</u> DRAWN <u>D HAUBRICH</u> CHECKED <u>R KOLLER</u>				 CERTIFICATE OF AUTHORIZATION #1841 730 NE WALDO ROAD, GAINESVILLE, FLORIDA 32641 / (352) 377-5821 8657 BAYPINE ROAD SUITE 300, JACKSONVILLE, FL 32256 / (904) 744-5401	CRANE CREEK M-1 CANAL FLOW RESTORATION ST. JOHN'S RIVER WATER MANAGEMENT DISTRICT	EROSION CONTROL DETAILS	CERTIFICATE OF AUTHORIZATION #1841 APPROVED BY A. GOODDEN P.E. # 60097	PROJECT NO: 19750-066-01 INDEX NO:	DATE: DEC 2019 DWG NO: EC1-3
LTR.	DATE	REVISIONS	BY	APPR.					

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CONSTRUCTION OF A SILT FENCE DETAIL 1
NTS



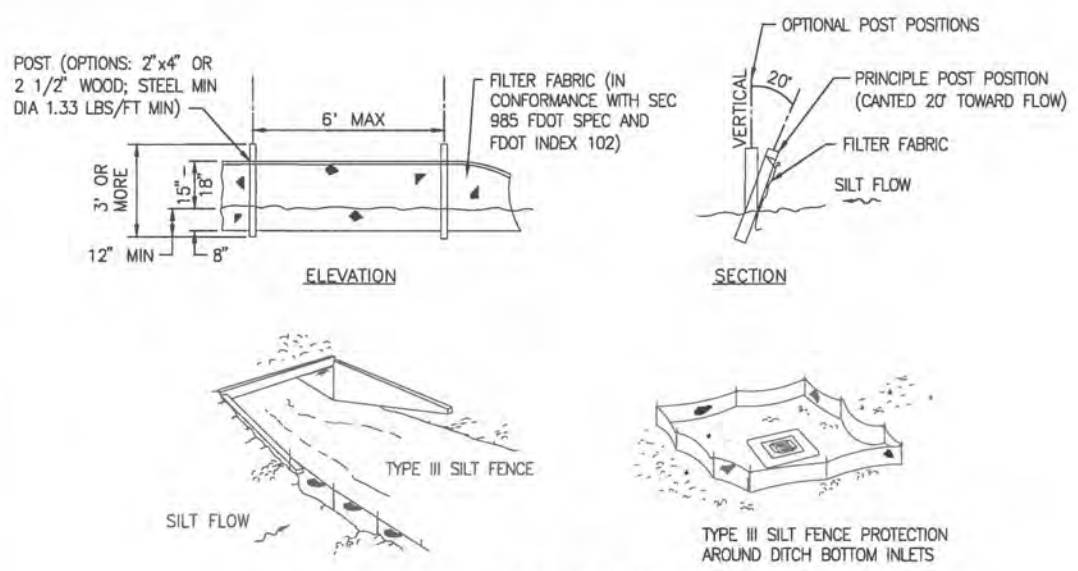
TYPE 1 **TYPE 2**

D1 = 5' STD (SINGLE PANEL FOR DEPTHS 5' OR LESS)
D2 = 5' STD (ADDITIONAL PANEL FOR DEPTHS 5')

CURTAIN TO REACH BOTTOM UP TO DEPTHS OF 10 FEET. TWO (2) PANELS TO BE USED FOR DEPTHS GREATER THAN 10 FEET UNLESS SPECIAL DEPTH CURTAINS SPECIFICALLY CALL FOR IN THE PLANS OR AS DETERMINED BY THE ENGINEER.

NOTICE: COMPONENTS OF TYPES 1 AND 2 MAY BE SIMILAR OR IDENTICAL TO PROPRIETARY DESIGNS. ANY INFRINGEMENT ON THE PROPRIETARY RIGHTS OF THE DESIGNER SHALL BE THE SOLE RESPONSIBILITY OF THE USER. SUBSTITUTIONS FOR TYPES 1 AND 2 SHALL BE AS APPROVED BY THE ENGINEER.

TYPICAL FLOATING TURBIDITY BARRIER DETAIL



TYPE III SILT FENCE

NOTES:

A. 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.

B. WHEN JOINING BUTT ENDS OF SILT FENCE FABRIC; JOIN FABRIC ENDS, WRAP AROUND A POST 360-DEGREES, AND SET POST.

FDOT INDEX NUMBER 102 SILT FENCE DETAIL 3
NTS

NOT FOR CONSTRUCTION



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DESIGNED <u>A GOODDEN</u>		<p>CERTIFICATE OF AUTHORIZATION #1841 730 NE WALDO ROAD, GAINESVILLE, FLORIDA 32641 / (352) 377-5821 8657 BAYPINE ROAD SUITE 300, JACKSONVILLE, FL 32256 / (904) 744-5401</p>	CRANE CREEK M-1 CANAL FLOW RESTORATION ST. JOHN'S RIVER WATER MANAGEMENT DISTRICT		EROSION CONTROL DETAILS		CERTIFICATE OF AUTHORIZATION #60097 APPROVED BY A. GOODDEN P.E. # 60097		PROJECT NO: 19750-066-01	DATE: DEC 2019
DRAWN <u>D HAUBRICH</u>									INDEX NO:	DWG NO: EC1-4
CHECKED <u>R KOLLER</u>										
LTR.	DATE	REVISIONS	BY	APPROD.						

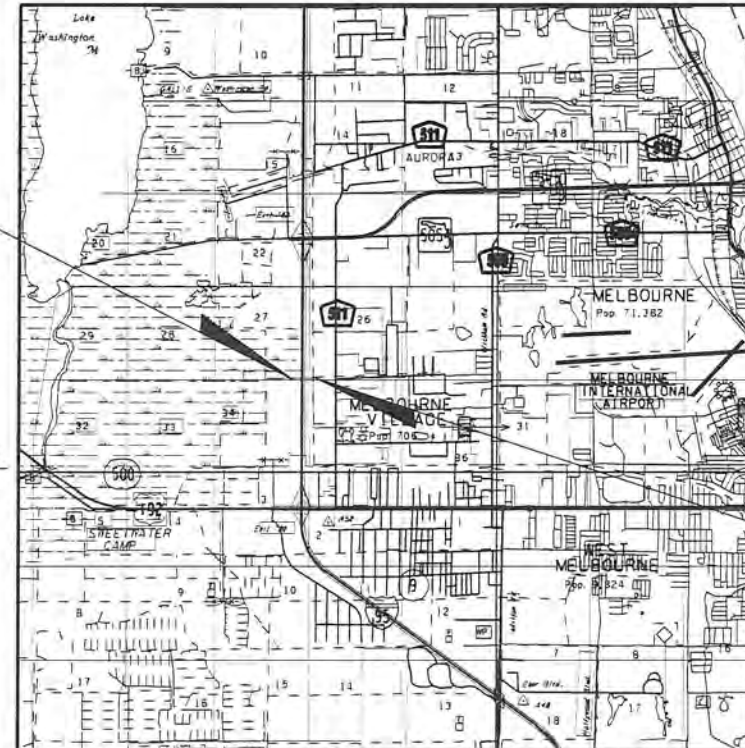
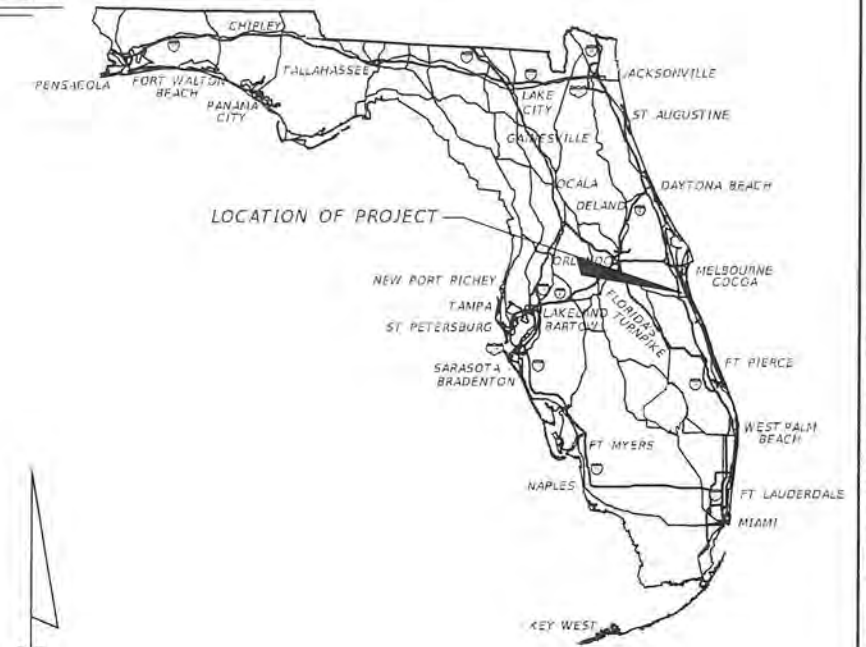
SAINT JOHNS RIVER WATER MANAGEMENT DISTRICT

UTILITY PLANS

CRANE CREEK M-1 CANAL
FLOW RESTORATION

INDEX OF UTILITY PLANS

SHEET NO.	SHEET DESCRIPTION
1	KEY SHEET
2	GENERAL NOTES
3-6	UTILITY PLAN
7-10	UTILITY PROFILE
11	SUMMARY OF VERIFIED UTILITIES



UTILITY PLANS

ENGINEER OF RECORD:

CLINTON C. SMITH, P.E. NO. 67711
HANSON PROFESSIONAL SERVICES INC.
8075 GATE PARKWAY WEST, SUITE 204
JACKSONVILLE, FL 32216-3685
(904) 737-0090



GOVERNING STANDARD PLANS:

Florida Department of Transportation, FY2018-19 Standard Plans for Road and Bridge Construction and applicable Interim Revisions (IRs).

Standard Plans for Road Construction and associated IRs are available at the following website: <http://www.fdot.gov/design/standardplans>

APPLICABLE IRs:

Standard Plans for Bridge Construction are included in the Structures Plans Component

GOVERNING STANDARD SPECIFICATIONS:

Florida Department of Transportation, July 2018 Standard Specifications for Road and Bridge Construction at the following website: <http://www.fdot.gov/programmanagement/Implemented/SpecBooks>

PERMITTING SUBMITTAL

SHEET NO.
1

NOTICE: THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.

GENERAL NOTES

1. BENCHMARK ELEVATIONS SHOWN ON THE PLANS ARE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88).
2. THE LOCATION(S) OF THE UTILITIES SHOWN IN THE PLANS (INCLUDING THOSE DESIGNATED Vv, Vh, AND Vvh) ARE BASED ON LIMITED INVESTIGATION TECHNIQUES AND SHOULD BE CONSIDERED APPROXIMATE ONLY. THE VERIFIED LOCATIONS/ELEVATIONS APPLY ONLY AT THE POINTS SHOWN. INTERPOLATIONS BETWEEN THESE POINTS HAVE NOT BEEN VERIFIED.
3. UTILITY/AGENCY OWNERS:

<u>COMPANY</u>	<u>TELEPHONE NUMBER</u>
BREVARD COUNTY PUBLIC WORKS - TRAFFIC SIGNALS & FIBER	(321) 633-2077
FLORIDA CITY GAS - GAS	(321) 638-3424
FLA GAS TRANS. - MELBOURNE - GAS PIPELINE	(407) 838-7171
FLORIDA POWER & LIGHT - BREVARD - ELECTRIC	(386) 586-6403
LEVEL 3 COMMUNICATIONS - FIBER OPTIC	(877) 366-8344 x2
CITY OF MELBOURNE UTILITIES ADMINISTRATION - WATER DISTRIBUTION	(321) 608-5106
CITY OF MELBOURNE UTILITIES ADMINISTRATION - WASTEWATER RE-USE	(321) 608-5106
CITY OF MELBOURNE UTILITIES ADMINISTRATION - SEWAGE COLLECTION	(321) 608-5106
CENTURYLINK (FORMERLY QWEST COMMUNICATIONS) - FIBER OPTIC	(303) 992-9931
AT&T DISTRIBUTION - TELEPHONE	(561) 997-0240
UNITI FIBER LLC - FIBER OPTIC	(251) 259-0807
BRIGHT HOUSE NETWORKS, LLC BREVARD - FIBER OPTIC	(321) 757-6451
CITY OF WEST MELBOURNE - WATER	(321) 837-7771
CITY OF WEST MELBOURNE - SEWER	(321) 984-0485
CROWN CASTLE FIBER	(786) 610-7059

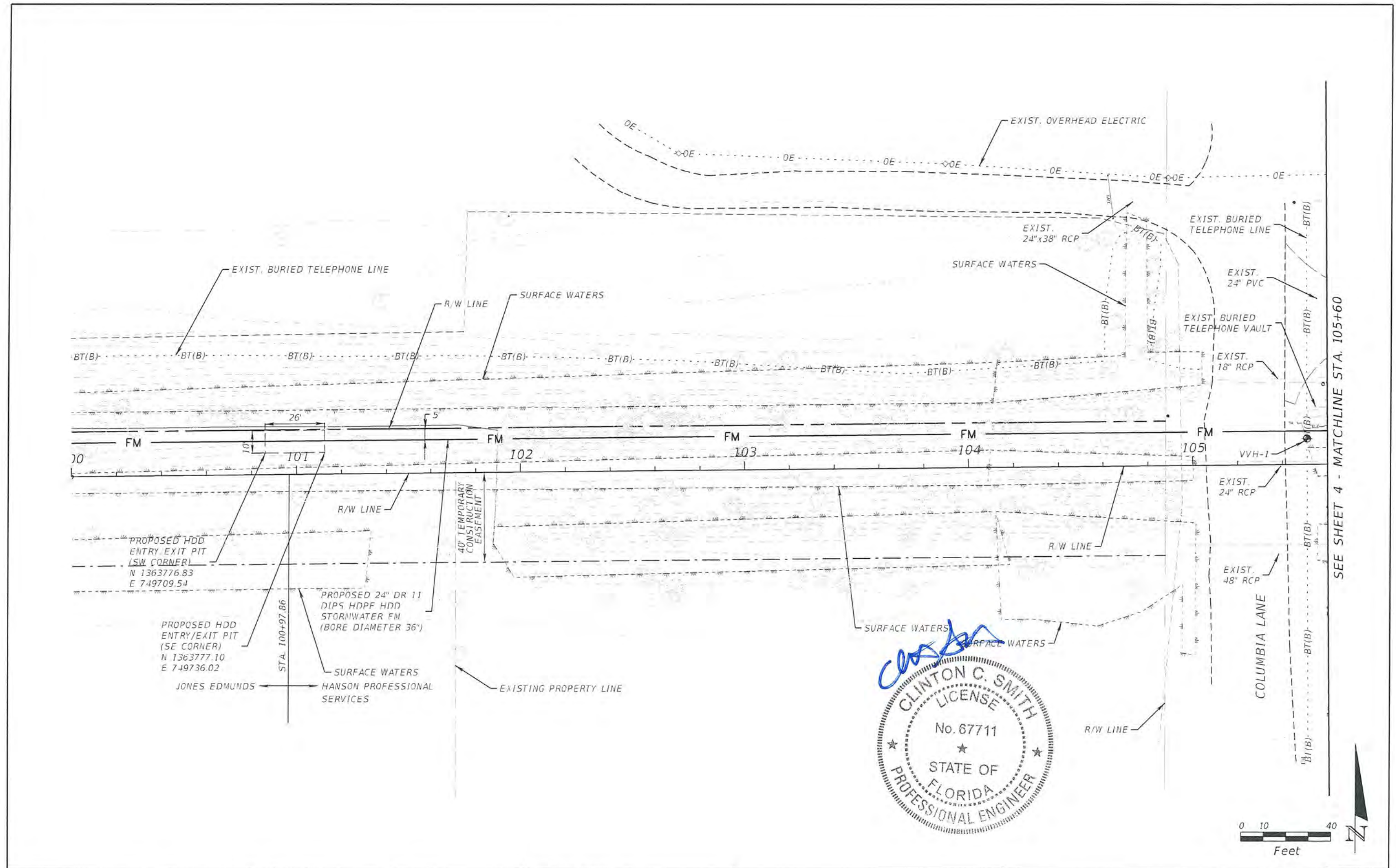
4. SPECIAL EVENT DAYS FOR THIS PROJECT INCLUDE: TBD



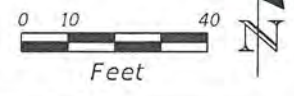
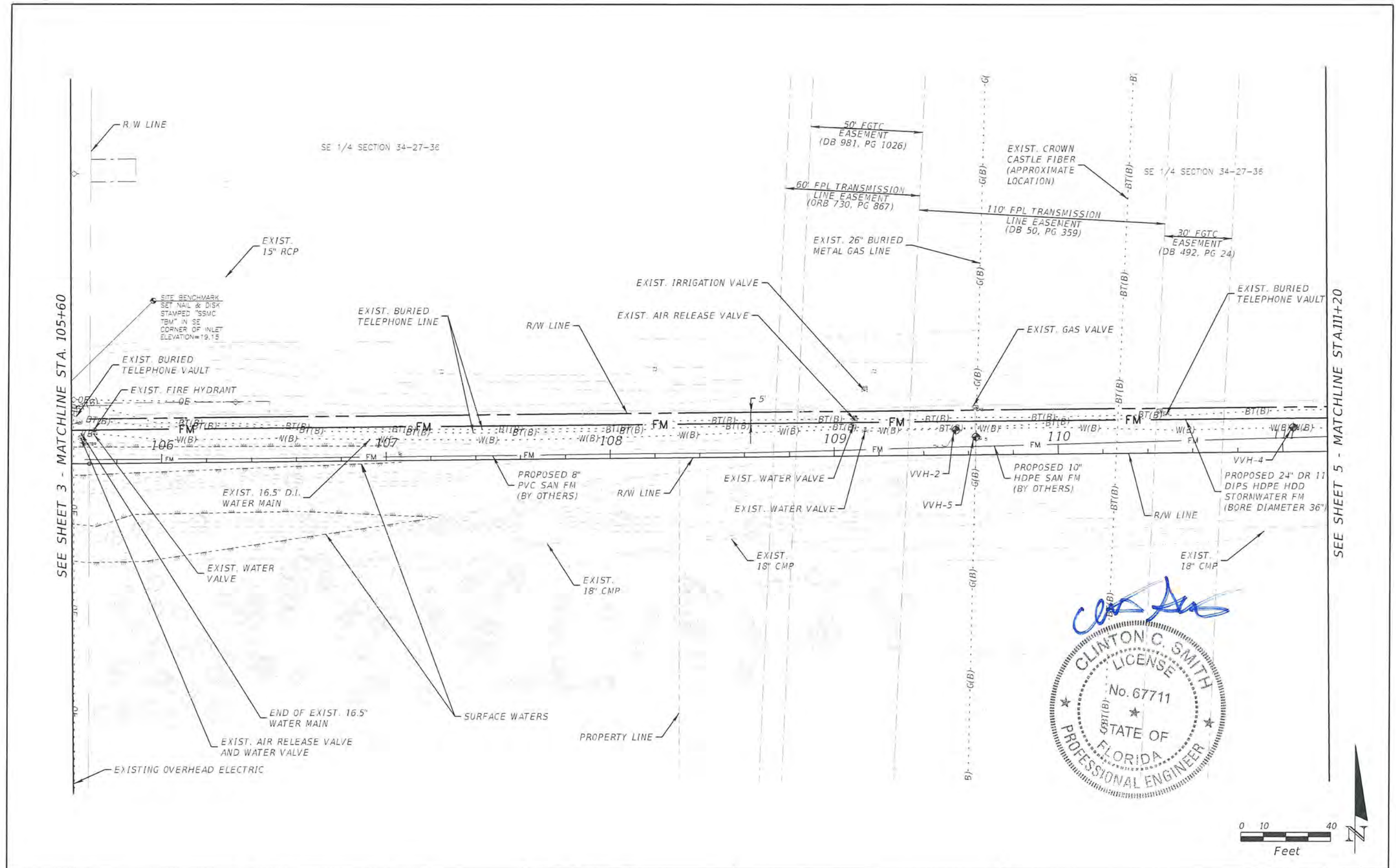
ENVIRONMENTAL RESOURCE REQUIREMENTS

1. THE USE OF DRILLING FLUIDS SHALL NOT CAUSE OR CONTRIBUTE TO A VIOLATION OF STATE GROUND WATER QUALITY CRITERIA OR STANDARDS, AS DEFINED IN CHAPTER 62-520, F.A.C.
2. AT LEAST 48 HOURS PRIOR TO COMMENCEMENT OF ANY DIRECTIONAL DRILLING ACTIVITIES, CONTRACTOR SHALL PROVIDE ALL-HOURS TELEPHONE CONTACT INFORMATION OF ALL CONTRACTORS RESPONSIBLE FOR DRILLING AND FOR CONTAINMENT AND CLEANUP IN THE EVENT OF A DRILLING FLUID FRAC-OUT OR SPILL.
3. THE CONTRACTOR SHALL AT ALL TIMES DURING DIRECTIONAL DRILLING ACTIVITIES, MAINTAIN APPROPRIATE EQUIPMENT AND MATERIALS IN A READILY-ACCESSIBLE LOCATION AND CONDITION, TO EFFECTIVELY CONTAIN AND CLEAN UP A DRILLING FLUID FRAC-OUT OR SPILL.
4. THE CONTRACTOR SHALL AT ALL TIMES DURING DIRECTIONAL DRILLING ACTIVITIES, ENSURE THAT APPROPRIATELY-TRAINED PERSONNEL MONITOR DOWNHOLE EQUIPMENT POSITION, DRILLING FLUID CIRCULATION AND PRESSURES, AND ACTIVELY MONITOR THE ENTIRE UTILITY LINE ROUTE FOR SURFACE FRAC-OUT OF DRILLING FLUIDS.
5. ALL DRILLING ACTIVITIES SHALL BE DISCONTINUED AND THE DRILLING FLUID OR SLURRY SHALL BE CONTAINED USING APPROPRIATE METHODS AS SOON AS POSSIBLE. IN THE EVENT OF A DRILLING FLUID FRAC-OUT OR SPILL, REMOVAL OF DRILLING FLUID OR SLURRY FROM WETLANDS AND OTHER SURFACE WATERS SHALL BE INITIATED AND COMPLETED IN THE MOST EXPEDITIOUS MANNER PRACTICAL. REMOVED DRILLING FLUID SHALL BE CONTAINED OR DISPOSED OF IN AN APPROPRIATE UPLAND LOCATION. ANY FRAC-OUT OR SPILL OF DRILLING FLUID INTO WETLANDS OR OTHER SURFACE WATERS SHALL BE REPORTED TO THE FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION WITHIN 24 HOURS FOLLOWING DETECTION OF THE SPILL OR FRAC-OUT.
6. FOR A TRENCH WITH A TOP WIDTH GREATER THAN THREE FEET IN HERBACEOUS WETLANDS, THE UPPER LAYER OF THE SOIL HORIZON SHALL INITIALLY BE SCRAPED AND SEGREGATED INTO A SOIL BANK THAT IS SEPARATED FROM THE SPOIL BANK RESULTING FROM THE EXCAVATION OF THE TRENCH FOR THE UTILITY LINE. THE UPPER LAYER OF THE SOIL HORIZON SHALL BE REPLACED AS THE LAST STEP OF RESTORED GRADES TO FACILITATE NATURAL REVEGETATION.

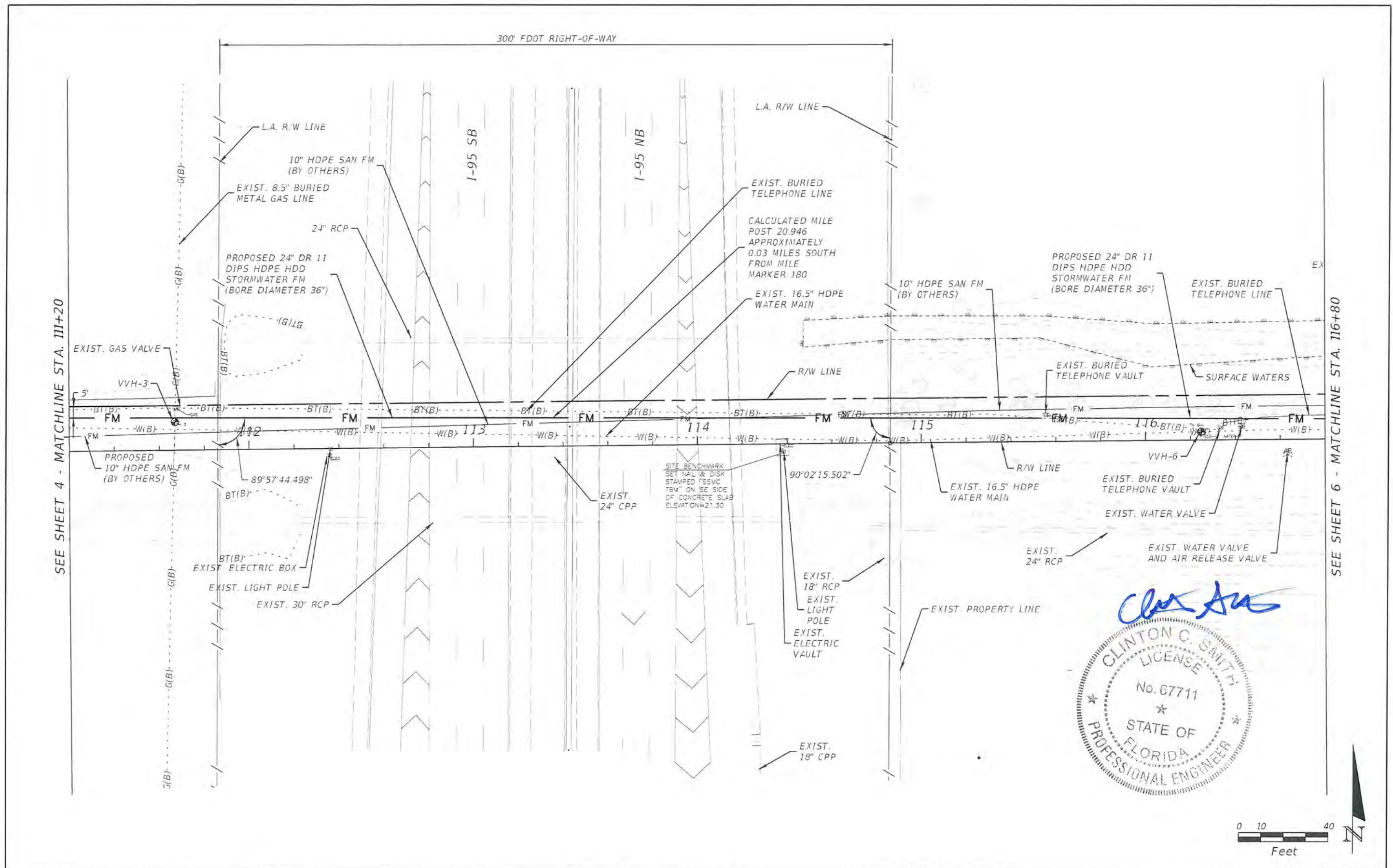
REVISIONS				CLINTON C. SMITH, P.E. P.E. LICENSE NUMBER 67711 HANSON PROFESSIONAL SERVICES INC. 8075 GATE PARKWAY WEST, SUITE 204 JACKSONVILLE, FL 32216-3685 CERTIFICATE OF AUTHORIZATION 00007961	COUNTY BREVARD		GENERAL NOTES	SHEET NO. 2
DATE	DESCRIPTION	DATE	DESCRIPTION					



REVISIONS				CLINTON C. SMITH, P.E. P.E. LICENSE NUMBER 67711 HANSON PROFESSIONAL SERVICES INC. 8075 GATE PARKWAY WEST, SUITE 204 JACKSONVILLE, FL 32216-3685 CERTIFICATE OF AUTHORIZATION 00007961	COUNTY		UTILITY PLAN	SHEET NO. 3
DATE	DESCRIPTION	DATE	DESCRIPTION					
					BREVARD			



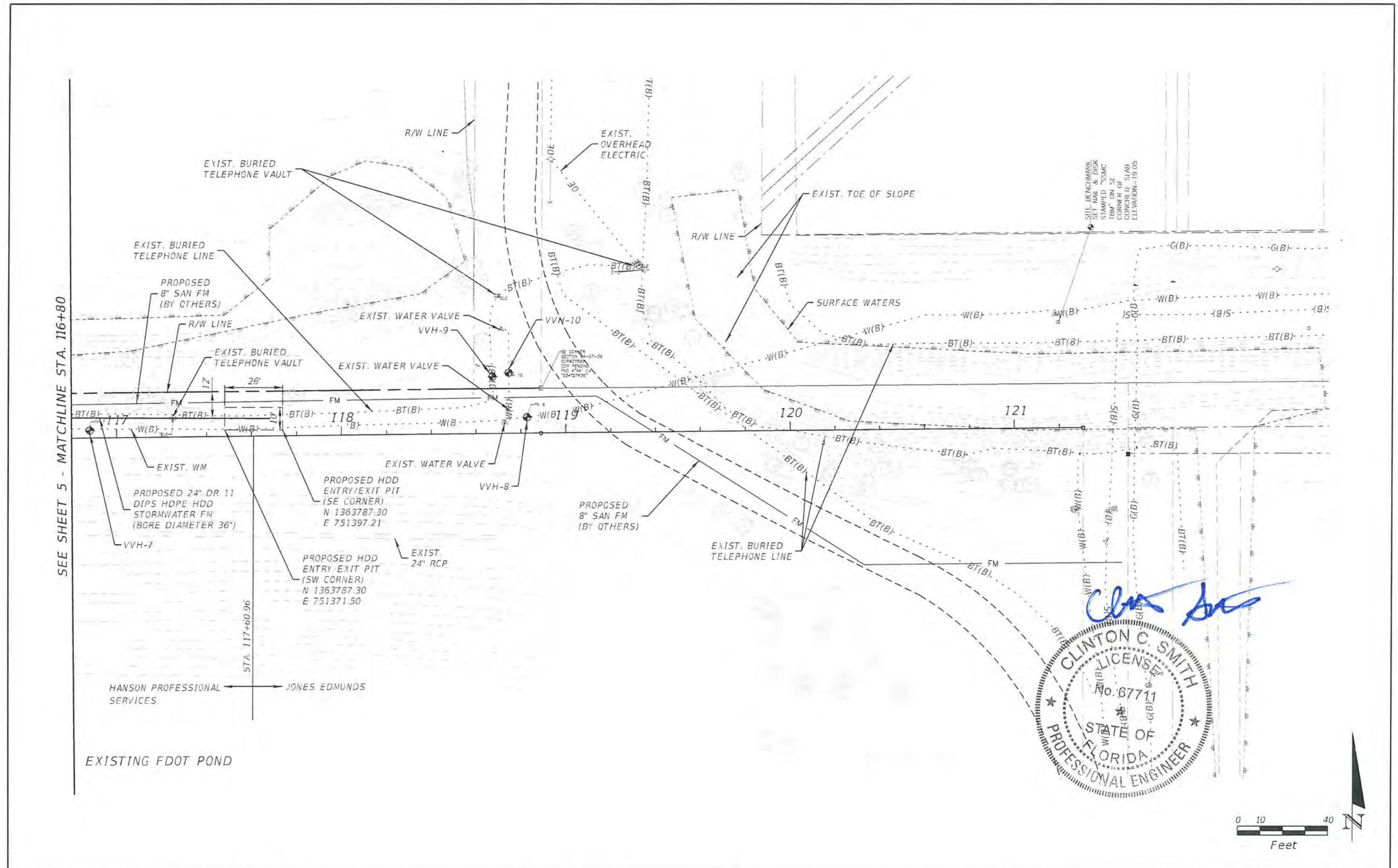
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DATE	DESCRIPTION	DATE	DESCRIPTION		BREVARD			



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 CLINTON C. SMITH
 LICENSE
 No. 67711
 STATE OF
 FLORIDA
 PROFESSIONAL ENGINEER



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DATE	DESCRIPTION	DATE	DESCRIPTION		BREVARD			



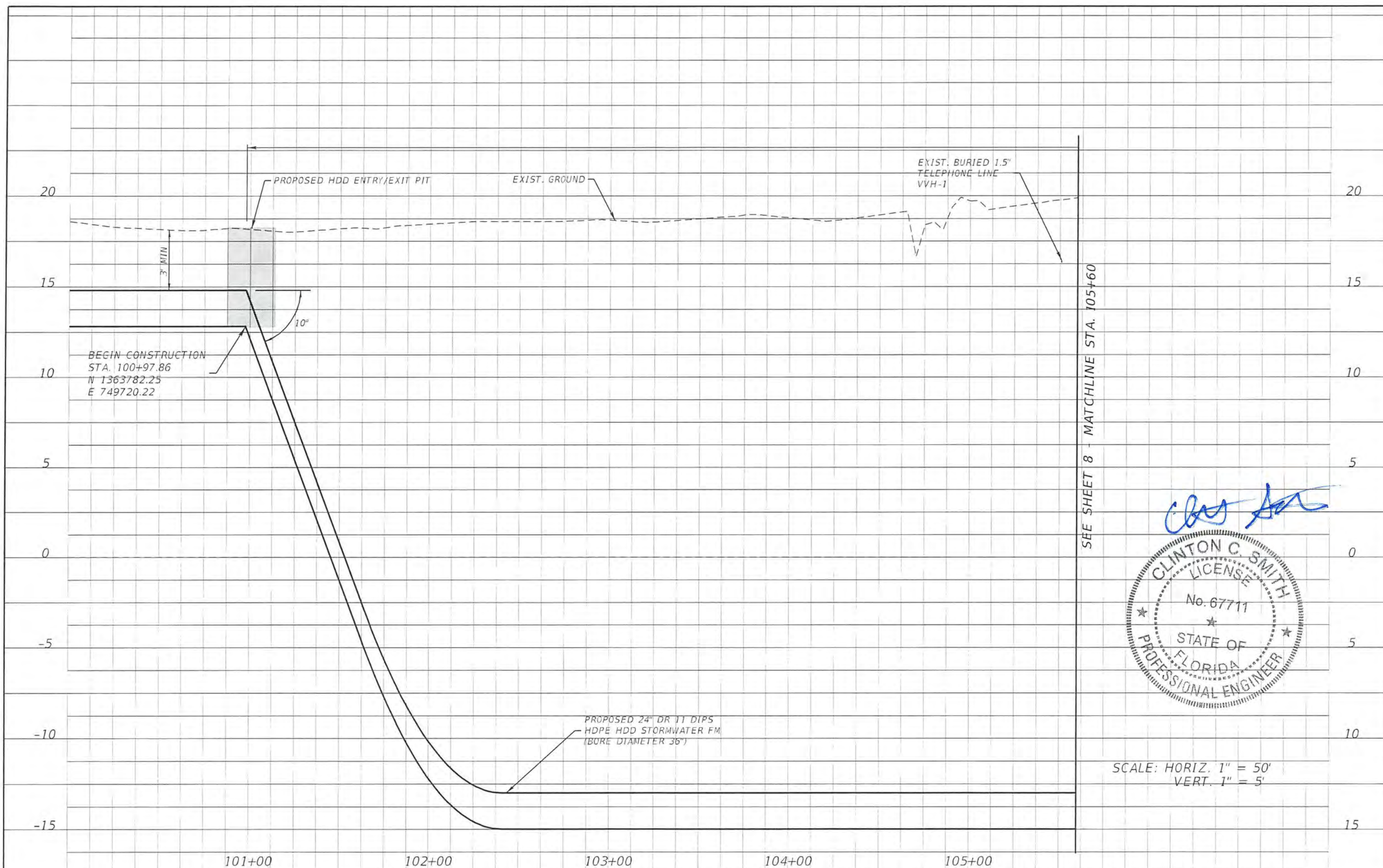
Clinton C. Smith
 CLINTON C. SMITH
 LICENSE
 No. 67711
 STATE OF
 FLORIDA
 PROFESSIONAL ENGINEER

SEE SHEET 5 - MATCHLINE STA. 116+80

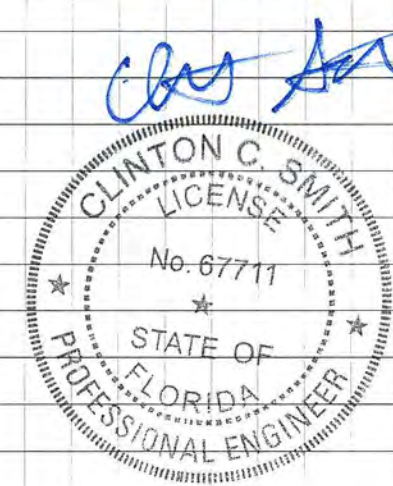
HANSON PROFESSIONAL SERVICES ← JONES EDMUNDS

EXISTING FDOT POND

REVISIONS				CLINTON C. SMITH, P.E. P.E. LICENSE NUMBER 67711 HANSON PROFESSIONAL SERVICES INC. 8075 GATE PARKWAY WEST, SUITE 204 JACKSONVILLE, FL 32216-3685 CERTIFICATE OF AUTHORIZATION 00007961	COUNTY		UTILITY PLAN	SHEET NO. 6
DATE	DESCRIPTION	DATE	DESCRIPTION		BREVARD			



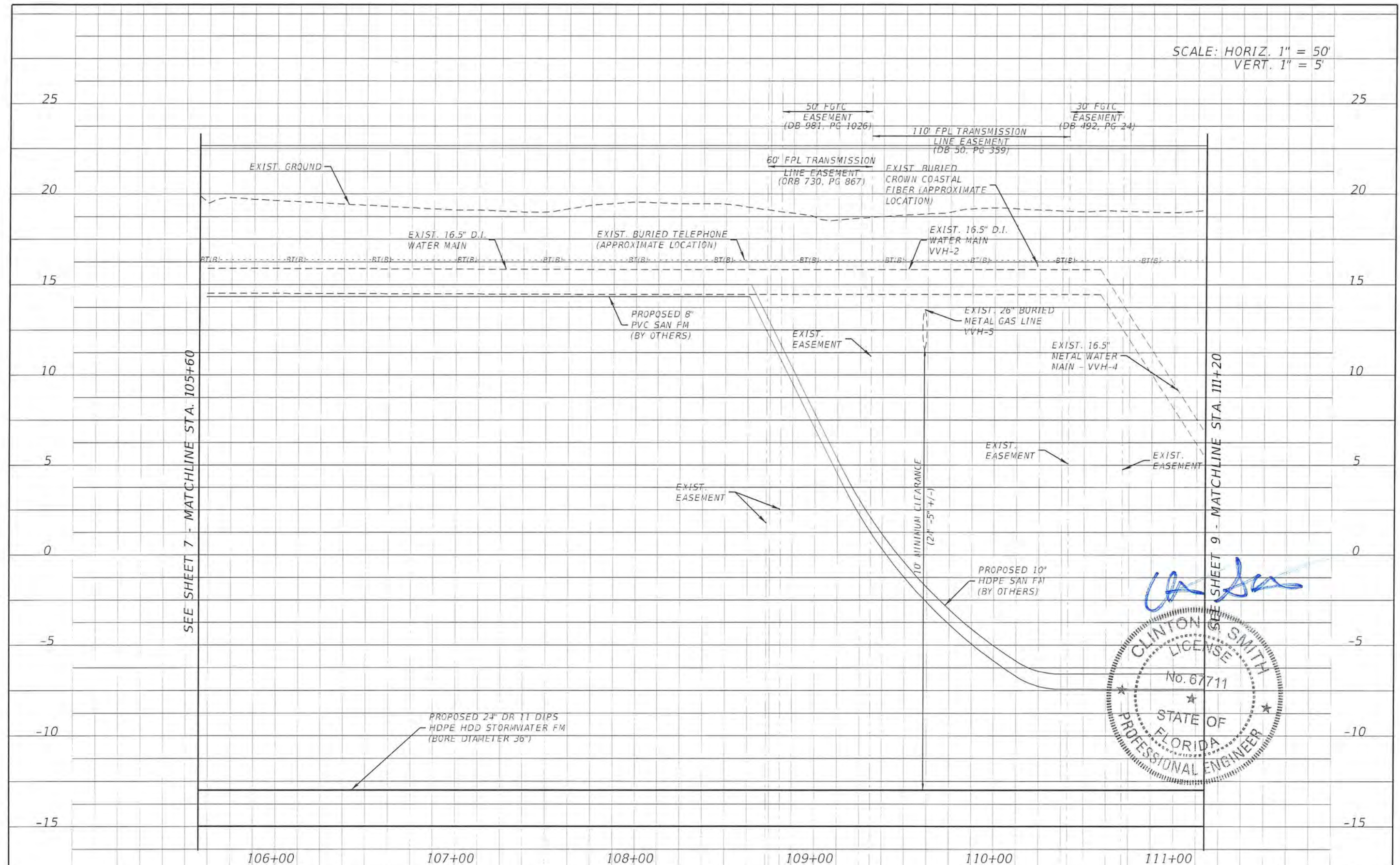
SEE SHEET 8 - MATCHLINE STA. 105+60



SCALE: HORIZ. 1" = 50'
VERT. 1" = 5'

REVISIONS				CLINTON C. SMITH, P.E. P.E. LICENSE NUMBER 67711 HANSON PROFESSIONAL SERVICES INC. 8075 GATE PARKWAY WEST, SUITE 204 JACKSONVILLE, FL 32216-3685 CERTIFICATE OF AUTHORIZATION 00007961	COUNTY		UTILITY PROFILES	SHEET NO. 7
DATE	DESCRIPTION	DATE	DESCRIPTION					
					BREVARD			

SCALE: HORIZ. 1" = 50'
VERT. 1" = 5'



SEE SHEET 7 - MATCHLINE STA. 105+60

SEE SHEET 9 - MATCHLINE STA. 111+20

Clinton C. Smith

CLINTON C. SMITH
LICENSE
No. 67711
STATE OF
FLORIDA
PROFESSIONAL ENGINEER

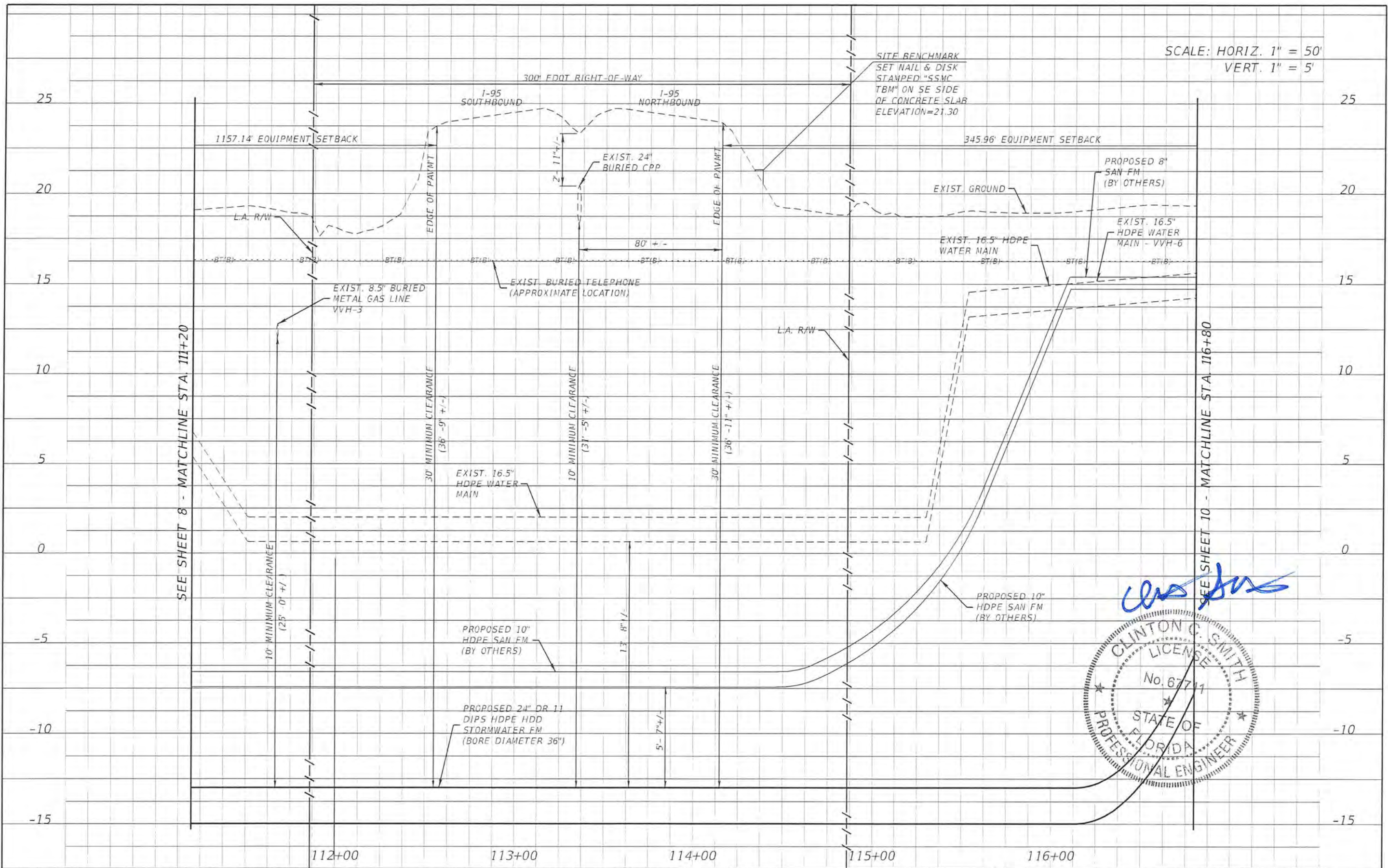
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CLINTON C. SMITH, P.E.
P.E. LICENSE NUMBER 67711
HANSON PROFESSIONAL SERVICES INC.
8075 GATE PARKWAY WEST, SUITE 204
JACKSONVILLE, FL 32216-3685
CERTIFICATE OF AUTHORIZATION 00007961

	COUNTY	
	BREVARD	

UTILITY PROFILES

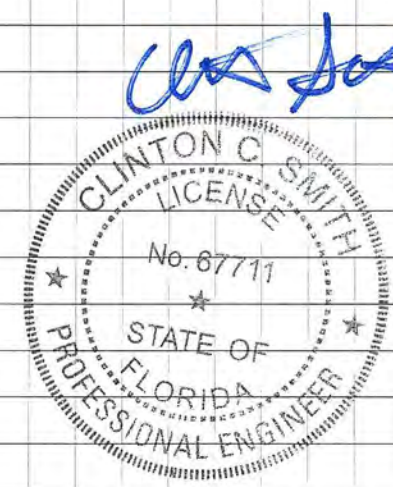
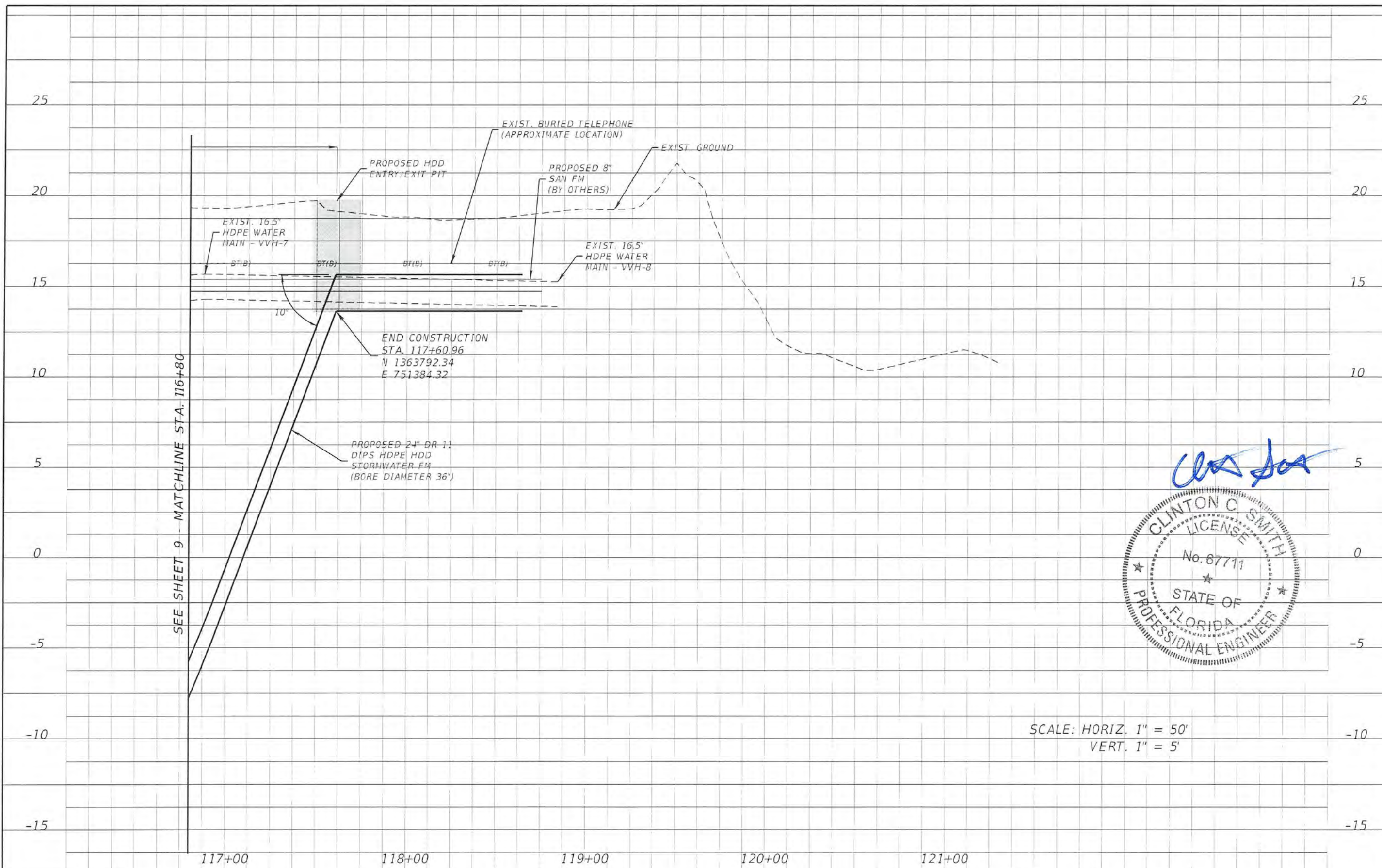
SHEET NO.
8



REVISIONS		DESCRIPTION		COUNTY	BREVARD	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION			
						9

CLINTON C. SMITH, P.E.
 P.E. LICENSE NUMBER 67711
 HANSON PROFESSIONAL SERVICES INC.
 8075 GATE PARKWAY WEST, SUITE 204
 JACKSONVILLE, FL 32216-3685
 CERTIFICATE OF AUTHORIZATION 00007961

UTILITY PROFILES



SCALE: HORIZ. 1" = 50'
VERT. 1" = 5'

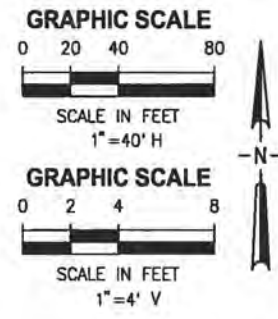
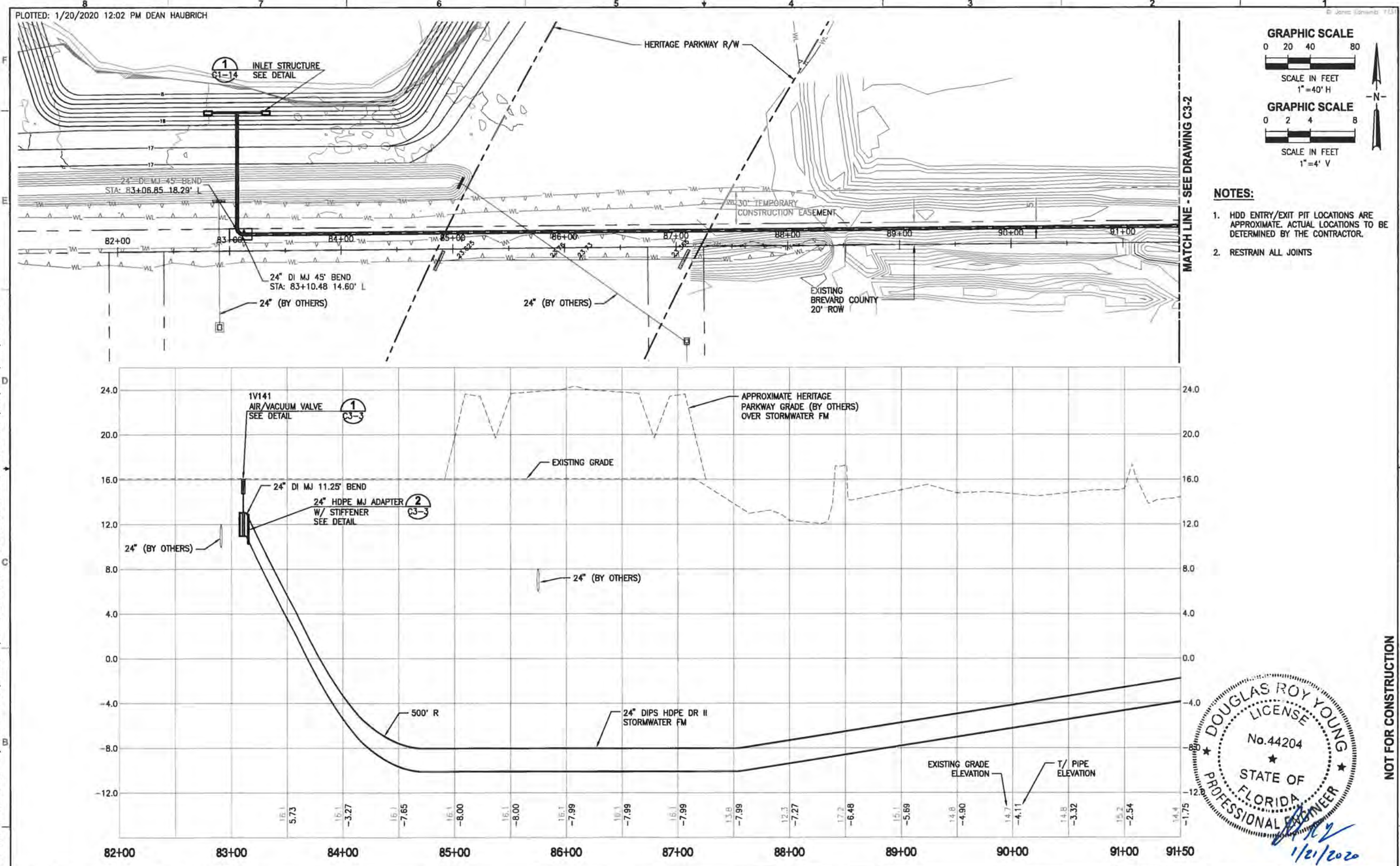
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DATE	DESCRIPTION	DATE	DESCRIPTION					
					BREVARD			

SUMMARY OF VERIFIED UTILITIES									
Vvh #	UTILITY DESCRIPTION (Owner, Type)	SIZE	MATERIALS	B and/or C			EXISTING GROUND ELEVATION	TOP ELEVATION	COMMENTS
				STATION	OFFSET	LT/RT			
VVH-1	BT, AT&T	1.5"	DBC	105+50.90	11.57	LT	19.69	16.44	
VVH-2	WM, BREVARD COUNTY	16.5"	DIP	109+54.36	11.15	LT	18.82	15.82	
VVH-3	GM, ENERGY TRANSFER	8.5"	MET	111+66.92	12.62	LT	19.01	12.76	
VVH-4	WM, BREVARD COUNTY	16.5"	MET	111+04.71	10.96	LT	18.88	9.13	
VVH-5	GM, ENERGY TRANSFER	26"	MET	109+63.32	8.05	LT	18.86	13.61	
VVH-6	WM, BREVARD COUNTY	16.5"	HDPE	116+24.59	3.59	LT	18.38	14.88	
VVH-7	WM, BREVARD COUNTY	16.5"	HDPE	116+88.03	3.35	LT	18.78	15.68	
VVH-8	WM, BREVARD COUNTY	16.5"	HDPE	118+83.85	7.13	LT	19.01	15.26	
VVH-9	BT, AT&T	1"	DBC	118+67.49	25.38	LT	19.00	16.25	
VVH-10	WM, BREVARD COUNTY	16.5"	HDPE	118+74.66	27.03	LT	19.02	14.87	



REVISIONS				CLINTON C. SMITH, P.E. P.E. LICENSE NUMBER 67711 HANSON PROFESSIONAL SERVICES INC. 8075 GATE PARKWAY WEST, SUITE 204 JACKSONVILLE, FL 32216-3685 CERTIFICATE OF AUTHORIZATION 00007961	COUNTY	BREVARD	SUMMARY OF VERIFIED UTILITIES	SHEET NO. 11
DATE	DESCRIPTION	DATE	DESCRIPTION					

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- NOTES:**
1. HDD ENTRY/EXIT PIT LOCATIONS ARE APPROXIMATE. ACTUAL LOCATIONS TO BE DETERMINED BY THE CONTRACTOR.
 2. RESTRAIN ALL JOINTS



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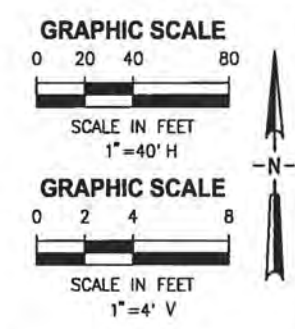
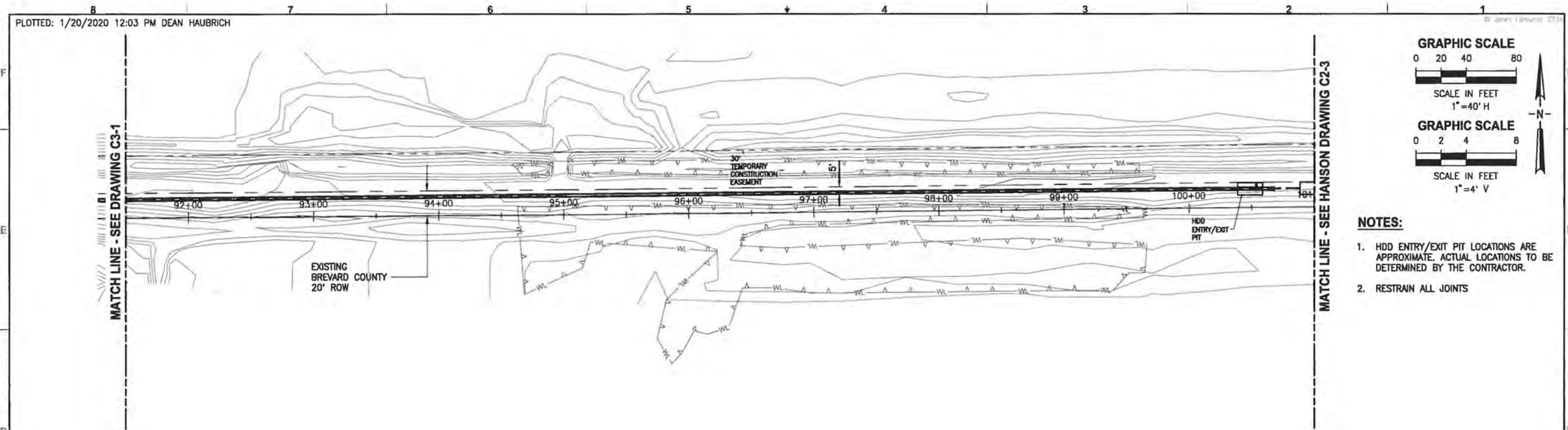
DESIGNED	D YOUNG			
DRAWN	D HAUBRICH			
CHECKED	R KOLLER			
LTR.	DATE	REVISIONS	BY	APPRD.

JonesEdmunds
 CERTIFICATE OF AUTHORIZATION #1841
 730 NE WALDO ROAD, GAINESVILLE, FLORIDA 32641 / (352) 377-5821
 8657 BAYPINE ROAD SUITE 300, JACKSONVILLE, FL 32256 / (904) 744-5401

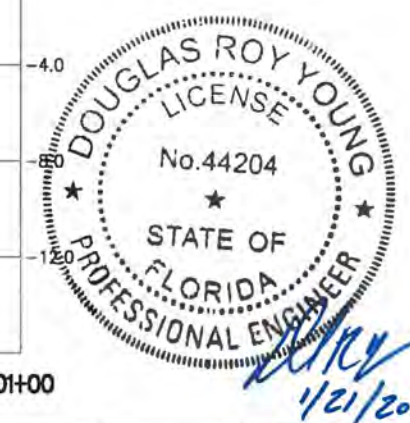
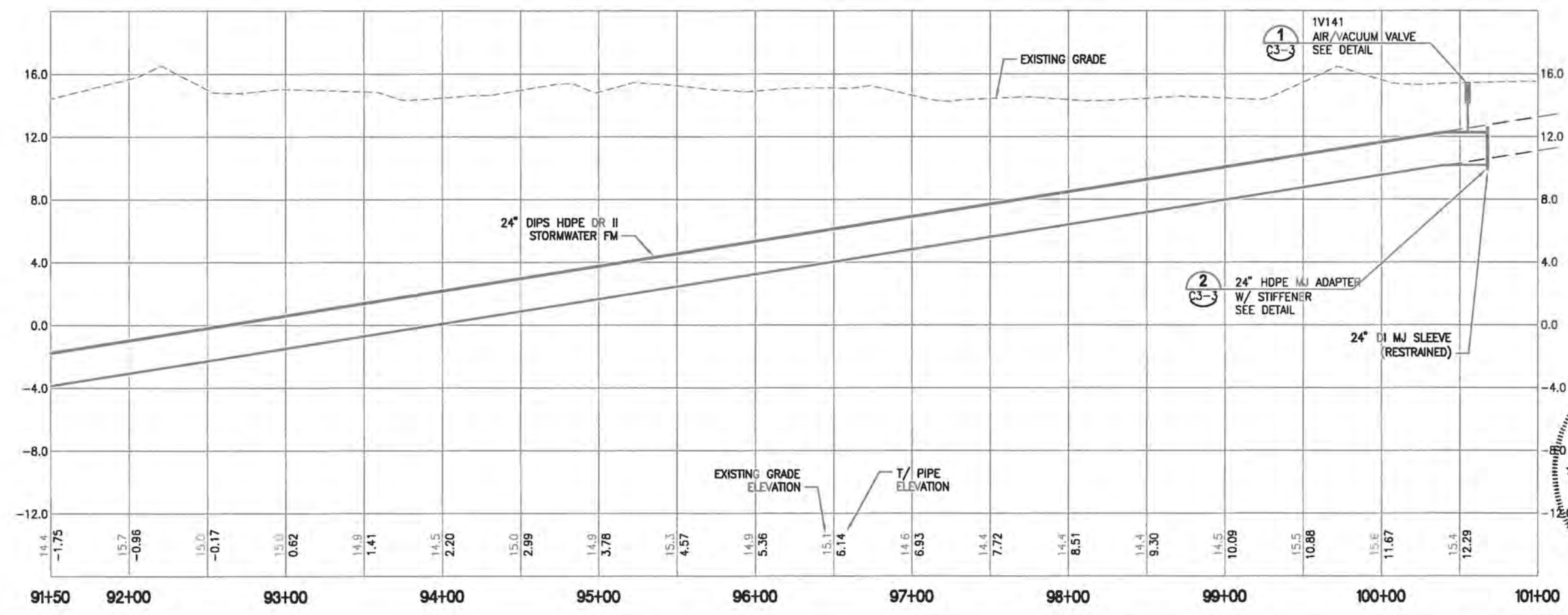
**CRANE CREEK M-1 CANAL FLOW RESTORATION
 ST. JOHN'S RIVER WATER MANAGEMENT DISTRICT**

**STORMWATER FORCE MAIN PLAN &
 PROFILE**

CERTIFICATE OF AUTHORIZATION #1841	PROJECT NO:	DATE:
APPROVED BY	19750-066-01	DEC 2019
D. YOUNG	INDEX NO:	DWG NO:
P.E. # 44204		C3-1



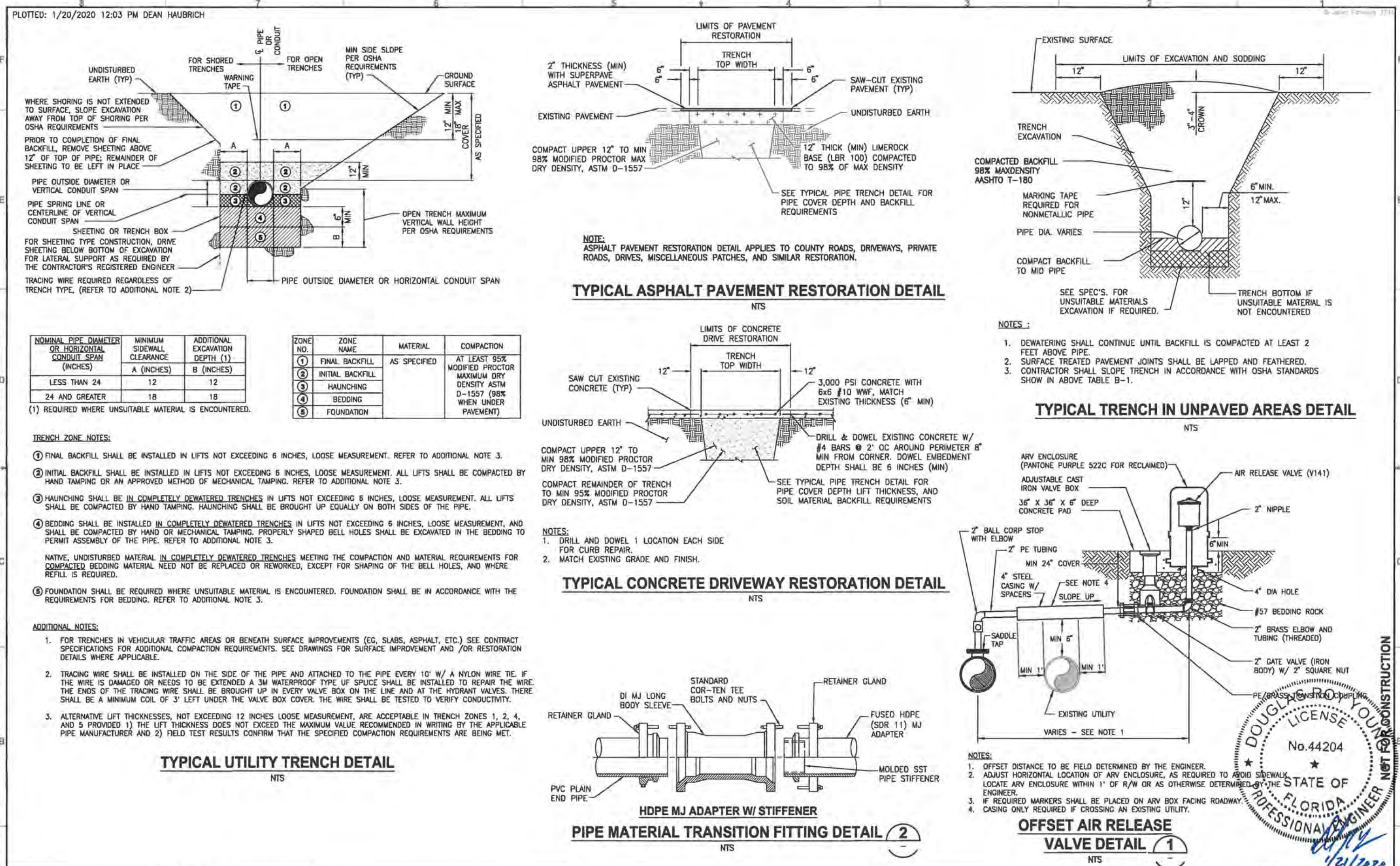
- NOTES:**
1. HDD ENTRY/EXIT PIT LOCATIONS ARE APPROXIMATE. ACTUAL LOCATIONS TO BE DETERMINED BY THE CONTRACTOR.
 2. RESTRAIN ALL JOINTS



NOT FOR CONSTRUCTION

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DESIGNED D YOUNG		<p>JonesEdmunds CERTIFICATE OF AUTHORIZATION #1841 730 NE WALDO ROAD, GAINESVILLE, FLORIDA 32641 / (352) 377-5821 8657 BAYPINE ROAD SUITE 300, JACKSONVILLE, FL 32256 / (904) 744-5401</p>	CRANE CREEK M-1 CANAL FLOW RESTORATION ST. JOHN'S RIVER WATER MANAGEMENT DISTRICT		STORMWATER FORCE MAIN PLAN & PROFILE		CERTIFICATE OF AUTHORIZATION #1841 APPROVED BY		PROJECT NO: 19750-066-01	DATE: DEC 2019
DRAWN D HAUBRICH							D. YOUNG		INDEX NO:	DWG NO: C3-2
CHECKED R KOLLER							P.E. # 44204			
LTR.	DATE	REVISIONS	BY	APPRD.						



NOMINAL PIPE DIAMETER OR HORIZONTAL CONDUIT SPAN (INCHES)	MINIMUM SIDEWALL CLEARANCE A (INCHES)	ADDITIONAL EXCAVATION DEPTH (1) B (INCHES)
LESS THAN 24	12	12
24 AND GREATER	18	18

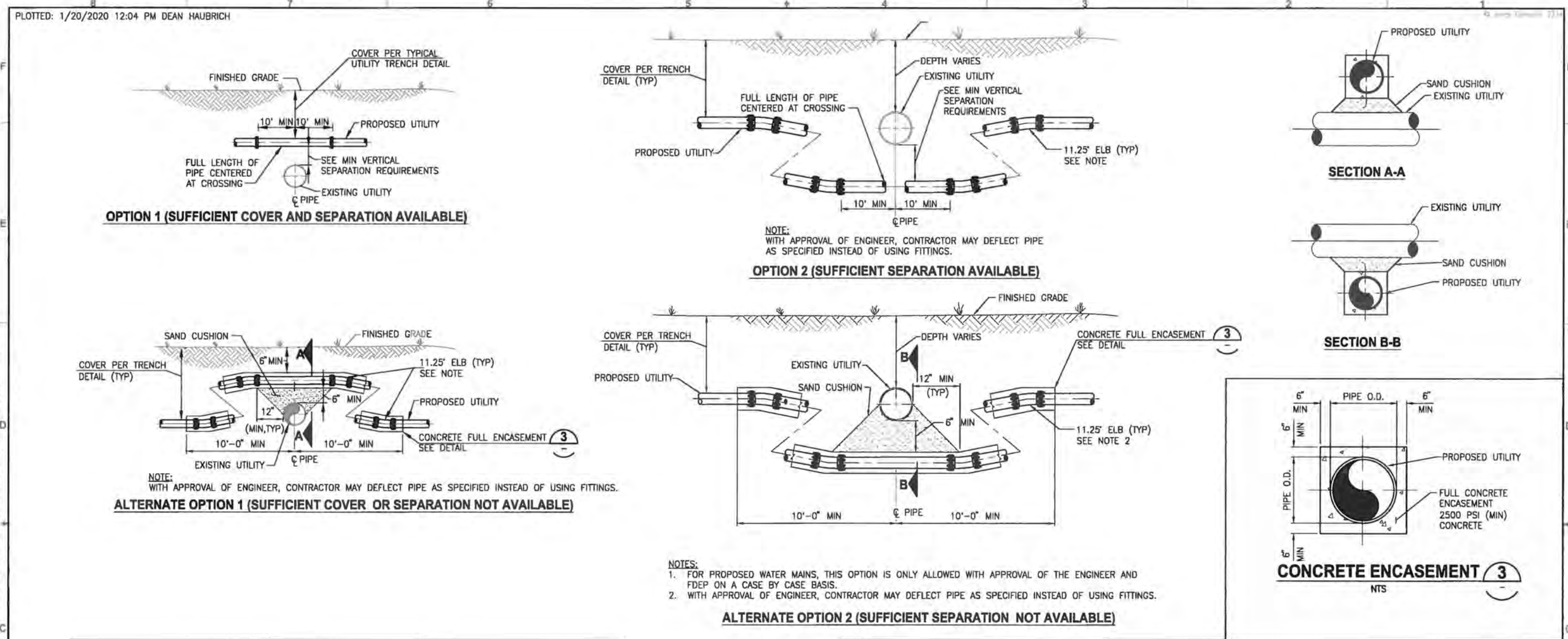
ZONE NO.	ZONE NAME	MATERIAL	COMPACTION
1	FINAL BACKFILL	AS SPECIFIED	AT LEAST 95% MODIFIED PROCTOR MAXIMUM DRY DENSITY ASTM D-1557 (98% WHEN UNDER PAVEMENT)
2	INITIAL BACKFILL		
3	HAUNCHING		
4	BEDDING		
5	FOUNDATION		

- TRENCH ZONE NOTES:**
- FINAL BACKFILL SHALL BE INSTALLED IN LIFTS NOT EXCEEDING 6 INCHES, LOOSE MEASUREMENT. REFER TO ADDITIONAL NOTE 3.
 - INITIAL BACKFILL SHALL BE INSTALLED IN LIFTS NOT EXCEEDING 6 INCHES, LOOSE MEASUREMENT. ALL LIFTS SHALL BE COMPACTED BY HAND TAMPING OR AN APPROVED METHOD OF MECHANICAL TAMPING. REFER TO ADDITIONAL NOTE 3.
 - HAUNCHING SHALL BE IN COMPLETELY DEWATERED TRENCHES IN LIFTS NOT EXCEEDING 6 INCHES, LOOSE MEASUREMENT. ALL LIFTS SHALL BE COMPACTED BY HAND TAMPING. HAUNCHING SHALL BE BROUGHT UP EQUALLY ON BOTH SIDES OF THE PIPE.
 - BEDDING SHALL BE INSTALLED IN COMPLETELY DEWATERED TRENCHES IN LIFTS NOT EXCEEDING 6 INCHES, LOOSE MEASUREMENT, AND SHALL BE COMPACTED BY HAND OR MECHANICAL TAMPING. PROPERLY SHAPED BELL HOLES SHALL BE EXCAVATED IN THE BEDDING TO PERMIT ASSEMBLY OF THE PIPE. REFER TO ADDITIONAL NOTE 3.
- NATIVE, UNDISTURBED MATERIAL IN COMPLETELY DEWATERED TRENCHES MEETING THE COMPACTION AND MATERIAL REQUIREMENTS FOR COMPACTED BEDDING MATERIAL NEED NOT BE REPLACED OR REWORKED, EXCEPT FOR SHAPING OF THE BELL HOLES, AND WHERE REFILL IS REQUIRED.
- FOUNDATION SHALL BE REQUIRED WHERE UNSUITABLE MATERIAL IS ENCOUNTERED. FOUNDATION SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS FOR BEDDING. REFER TO ADDITIONAL NOTE 3.

- ADDITIONAL NOTES:**
- FOR TRENCHES IN VEHICULAR TRAFFIC AREAS OR BENEATH SURFACE IMPROVEMENTS (EG, SLABS, ASPHALT, ETC.) SEE CONTRACT SPECIFICATIONS FOR ADDITIONAL COMPACTION REQUIREMENTS. SEE DRAWINGS FOR SURFACE IMPROVEMENT AND /OR RESTORATION DETAILS WHERE APPLICABLE.
 - TRACING WIRE SHALL BE INSTALLED ON THE SIDE OF THE PIPE AND ATTACHED TO THE PIPE EVERY 10' W/ A NYLON WIRE TIE. IF THE WIRE IS DAMAGED OR NEEDS TO BE EXTENDED A 3M WATERPROOF TYPE UF SPLICE SHALL BE INSTALLED TO REPAIR THE WIRE. THE ENDS OF THE TRACING WIRE SHALL BE BROUGHT UP IN EVERY VALVE BOX ON THE LINE AND AT THE HYDRANT VALVES. THERE SHALL BE A MINIMUM COIL OF 3' LEFT UNDER THE VALVE BOX COVER. THE WIRE SHALL BE TESTED TO VERIFY CONDUCTIVITY.
 - ALTERNATIVE LIFT THICKNESSES, NOT EXCEEDING 12 INCHES LOOSE MEASUREMENT, ARE ACCEPTABLE IN TRENCH ZONES 1, 2, 4, AND 5 PROVIDED 1) THE LIFT THICKNESS DOES NOT EXCEED THE MAXIMUM VALUE RECOMMENDED IN WRITING BY THE APPLICABLE PIPE MANUFACTURER AND 2) FIELD TEST RESULTS CONFIRM THAT THE SPECIFIED COMPACTION REQUIREMENTS ARE BEING MET.



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PROPOSED UTILITY	EXISTING UTILITY						COMMENTS
	POTABLE WATER	GRAVITY SANITARY SEWER	SEWAGE FORCE MAIN	STORM	RECLAIMED WATER	ELECTRIC TELECOMMUNICATIONS	
POTABLE WATER	1'-0"	1'-6"	1'-5"	1'-0"	1'-0"	1'-0"	SEE NOTE 1
GRAVITY SANITARY SEWER	1'-6"	1'-0"	1'-0"	1'-6"	1'-6"	1'-0"	
SEWAGE FORCE MAIN	1'-6"	1'-0"	1'-0"	1'-0"	1'-6"	1'-0"	SEE NOTE 2
STORM	1'-0"	1'-6"	1'-0"	1'-0"	1'-0"	1'-0"	
RECLAIMED WATER	1'-0"	1'-6"	1'-6"	1'-0"	1'-0"	1'-0"	SEE NOTE 2
ELECTRIC TELECOMMUNICATIONS	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	

NOTE:
1. ONLY OPTION 1 CONSTRUCTION IS ALLOWED WITHOUT APPROVAL OF ENGINEER.

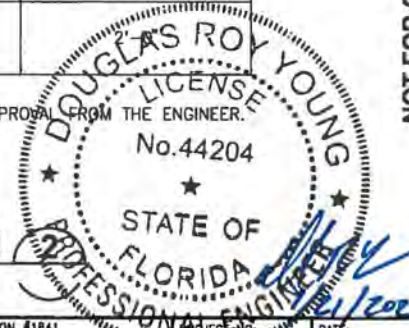
MINIMUM VERTICAL SEPARATION REQUIREMENTS



PROPOSED UTILITY	MINIMUM HORIZONTAL SEPARATION EXISTING UTILITY					
	POTABLE WATER	GRAVITY SANITARY SEWER	SEWAGE FORCE MAIN	STORM	RECLAIMED WATER	ELECTRIC TELECOMMUNICATIONS
POTABLE WATER	1'-0"	10'-0"	10'-0"	3'-0"	3'-0"	3'-0"
GRAVITY SANITARY SEWER	10'-0"	1'-0"	1'-0"	3'-0"	3'-0"	3'-0"
SEWAGE FORCE MAIN	10'-0"	1'-0"	1'-0"	3'-0"	3'-0"	3'-0"
STORM	3'-0"	3'-0"	3'-0"	1'-0"	3'-0"	3'-0"
RECLAIMED WATER	3'-0"	3'-0"	3'-0"	3'-0"	1'-0"	3'-0"
ELECTRIC TELECOMMUNICATIONS	3'-0"	3'-0"	3'-0"	3'-0"	3'-0"	

NOTE:
UTILITIES SHALL NOT BE INSTALLED WITHIN THE DRIP LINE OF TREES WITHOUT PRIOR WRITTEN APPROVAL FROM THE ENGINEER.

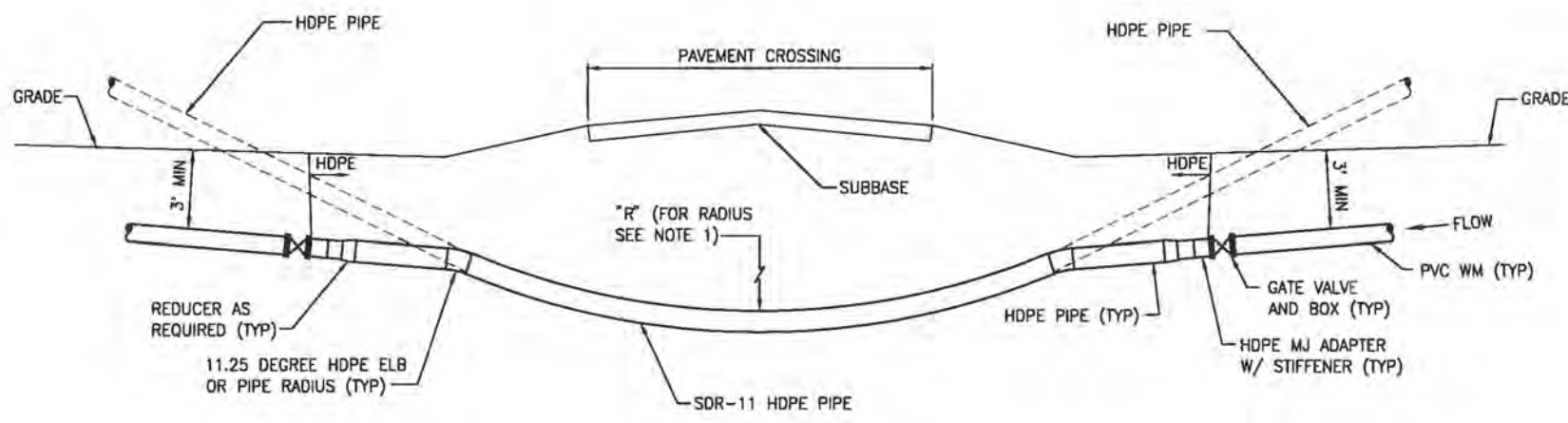
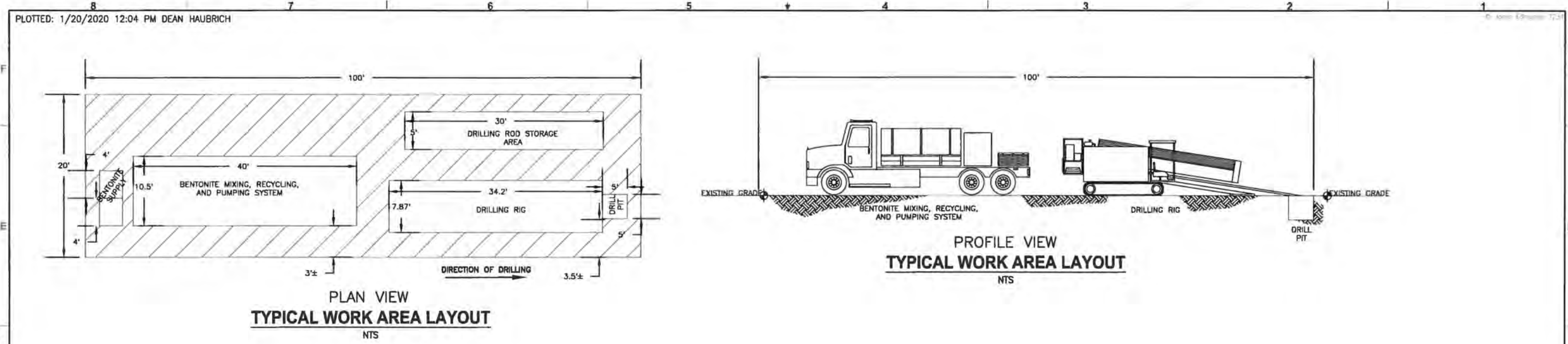
UTILITY HORIZONTAL SEPARATION
NTS



DESIGNED: D. YOUNG	<p>CERTIFICATE OF AUTHORIZATION #1841 730 NE WALDO ROAD, GAINESVILLE, FLORIDA 32641 / (352) 377-5821 8657 BAYPINE ROAD SUITE 300, JACKSONVILLE, FL 32256 / (904) 744-5401</p>	CRANE CREEK M-1 CANAL FLOW RESTORATION ST. JOHN'S RIVER WATER MANAGEMENT DISTRICT	STORMWATER FORCE MAIN - DETAILS	CERTIFICATE OF AUTHORIZATION #1841 APPROVED BY: [Signature]	DATE: DEC 2019
DRAWN: D. HAUBRICH		D. YOUNG P.E. # 44204	INDEX NO:	DWG NO: C3-4	
CHECKED: R. KOLLER					

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NOT FOR CONSTRUCTION



- NOTES:**
- "R" IS EQUAL TO 125% OF THE MANUFACTURER'S RECOMMENDED MINIMUM RADIUS FOR PIPE BEING INSTALLED BY HDD, OR 125% OF MINIMUM RADIUS FOR DRILLING RODS, WHICHEVER IS GREATER.
 - WHEN BORING UNDER ROADWAY PAVEMENT AND DRIVEWAYS THE BORE DEPTH SHALL BE EQUAL TO TEN (10) TIMES THE BORED DIAMETER OR GREATER AS MEASURED FROM THE TOP OF PAVEMENT OR DRIVEWAY TO THE TOP OF THE BORE. IN NO CASE SHALL THE PIPE COVER BE LESS THAN 4 FEET DEEP.
 - CONTRACTOR SHALL PROVIDE NECESSARY FITTINGS, SLEEVES AND ADAPTERS FOR CONNECTIONS. FITTINGS ETC. MAY VARY.
 - CONTRACTOR SHALL CONFIRM ELEV AND LOCATION OF ALL EXISTING UTILITIES BEFORE DRILLING.
 - CONTRACTOR IS RESPONSIBLE FOR OBTAINING ANY EASEMENTS NECESSARY FOR EXECUTION OF THE WORK.
 - GATE VALVES AND VALVE BOXES ARE NOT TO BE INSTALLED ON WATER SERVICE ASSEMBLIES.
 - SEE PROFILE DRAWINGS FOR FURTHER DETAIL.

NOTE:
HORIZONTAL DIRECTIONAL DRILL DETAILS ARE FOR GENERAL DESCRIPTION ONLY. THE CONTRACTOR SHALL DETERMINE ACTUAL WORK AREA LAYOUT.

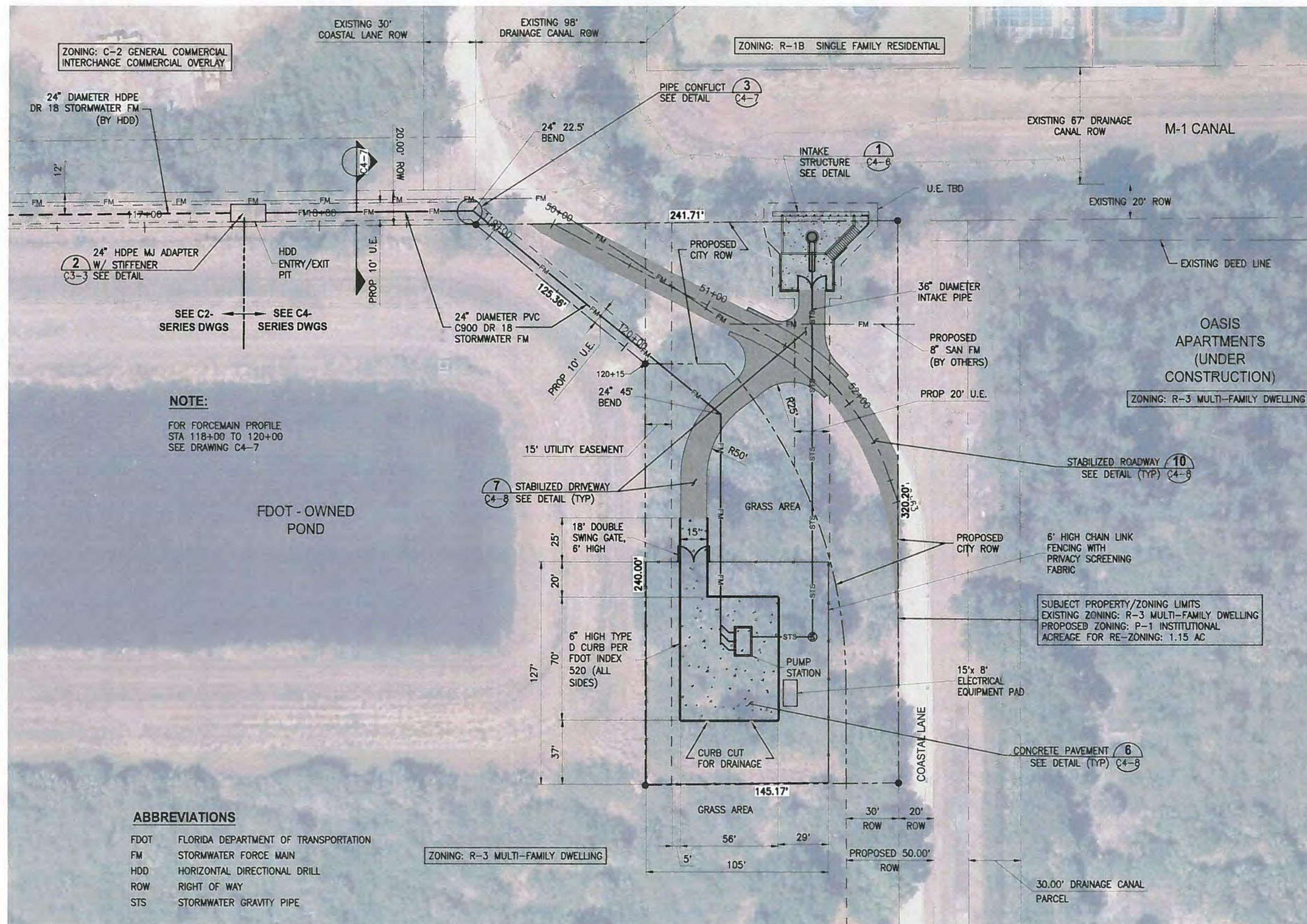


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SAVED: 11/11/2019 9:49 AM DHAUBRICH Y:\19750-SJRWMD\PROJECTS\066-01-CRANE CREEK M-1_FLOW_RESTORATION_DESIGN\CAD\DWGS\MECH\M3-1-1.DWG

DESIGNED: D. YOUNG		<p>CERTIFICATE OF AUTHORIZATION #1841 730 NE WALDO ROAD, GAINESVILLE, FLORIDA 32641 / (352) 377-5821 8657 BAYPINE ROAD SUITE 300, JACKSONVILLE, FL 32256 / (904) 744-5401</p>	CRANE CREEK M-1 CANAL FLOW RESTORATION ST. JOHN'S RIVER WATER MANAGEMENT DISTRICT		HORIZONTAL DIRECTIONAL DRILL DETAILS		CERTIFICATE OF AUTHORIZATION #1841 APPROVED BY: [Signature] D. YOUNG P.E. # 44204		PROJECT NO: 19750-066-01	DATE: DEC 2019
DRAWN: D. HAUBRICH									INDEX NO:	DWG NO: M3-1
CHECKED: R. KOLLER										
LTR.	DATE	REVISIONS	BY	APPRD.						

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ZONING: C-2 GENERAL COMMERCIAL INTERCHANGE COMMERCIAL OVERLAY

ZONING: R-1B SINGLE FAMILY RESIDENTIAL

ZONING: R-3 MULTI-FAMILY DWELLING

24" HDPE MJ ADAPTER W/ STIFFENER (2) SEE DETAIL C3-3

NOTE:
FOR FORCEMAIN PROFILE STA 118+00 TO 120+00 SEE DRAWING C4-7

ABBREVIATIONS

- FDOT FLORIDA DEPARTMENT OF TRANSPORTATION
- FM STORMWATER FORCE MAIN
- HDD HORIZONTAL DIRECTIONAL DRILL
- ROW RIGHT OF WAY
- STS STORMWATER GRAVITY PIPE

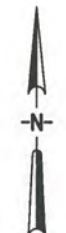
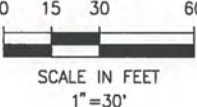


PROJECT INFORMATION:

- NO BUILDINGS
- NO AUDIBLE ALARMS
- EQUIPMENT PANELS UNDER 8 FEET OF HEIGHT
- SOLID 6 FOOT FENCING
- EXISTING ROAD WITHIN SUBJECT PROPERTY TO BE STABILIZED AND COMPACTED

SUBJECT PROPERTY/ZONING LIMITS
EXISTING ZONING: R-3 MULTI-FAMILY DWELLING
PROPOSED ZONING: P-1 INSTITUTIONAL
ACREAGE FOR RE-ZONING: 1.15 AC

GRAPHIC SCALE



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DESIGNED	W NICKEL
DRAWN	D HAUBRICH
CHECKED	R KOLLER
DATE	REVISIONS
BY	APPRO.

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 8657 BAYPINE ROAD SUITE 300, JACKSONVILLE, FL 32256 / (904) 744-5401

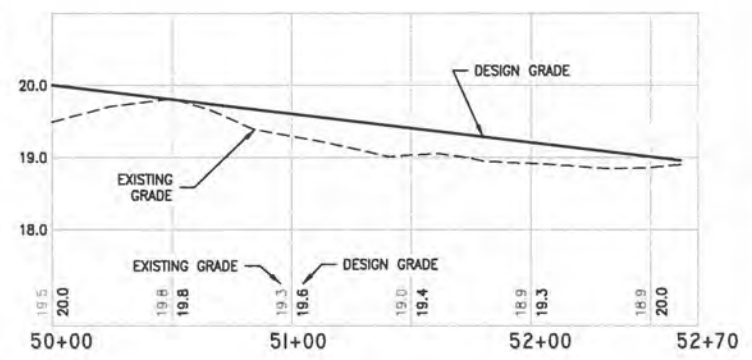
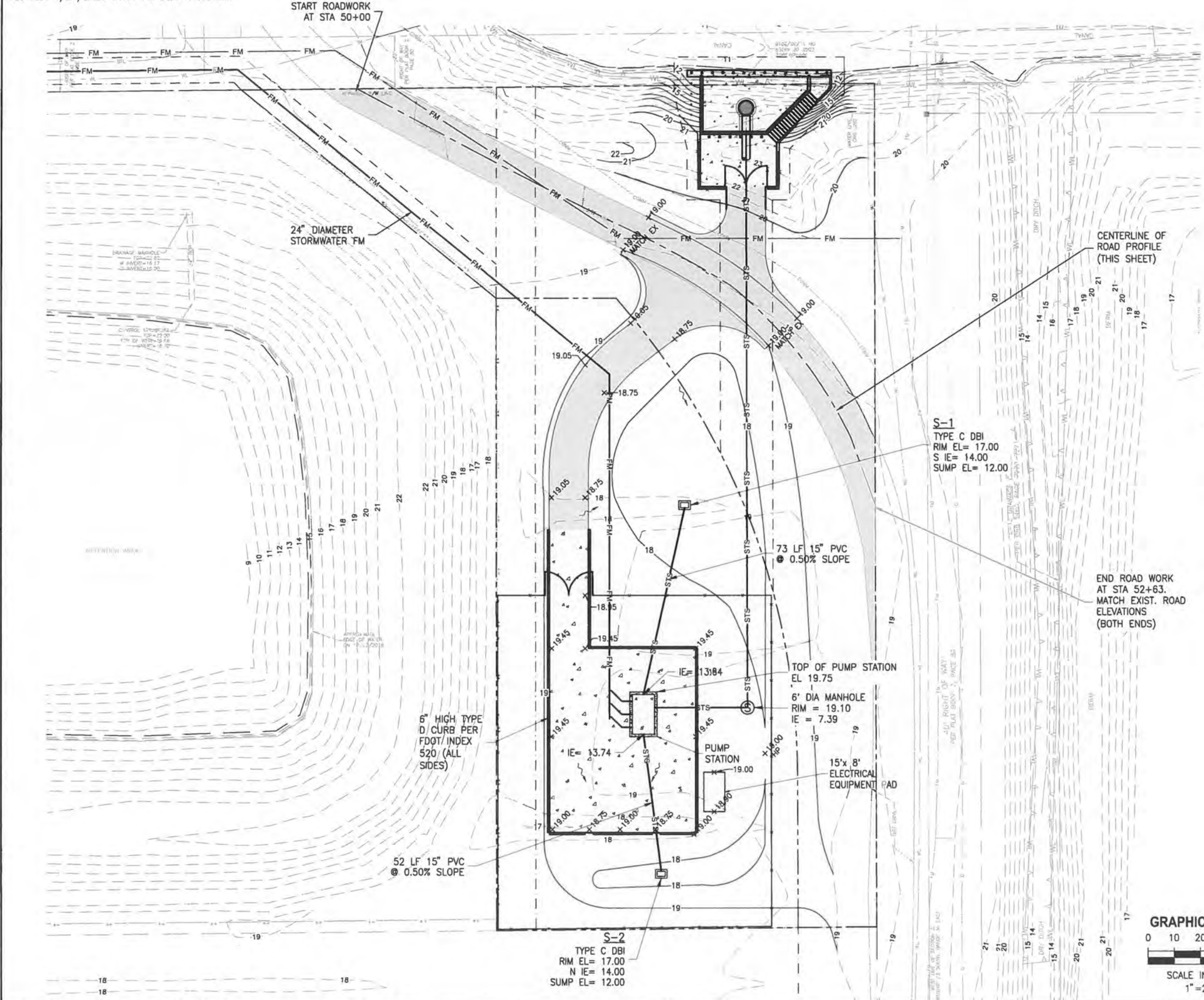
CRANE CREEK M-1 CANAL FLOW RESTORATION
 ST. JOHN'S RIVER WATER MANAGEMENT DISTRICT

PUMP STATION SITE PLAN

CERTIFICATE OF AUTHORIZATION #1841	PROJECT NO:	DATE:
APPROVED BY	19750-066-01	DEC 2019
W. NICKEL	INDEX NO:	DWG NO:
P.E. # 68638		C4-1

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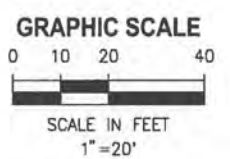
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ROAD PROFILE
1"=40' HORIZ
1"=1' VERT



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DESIGNED	W NICKEL			
DRAWN	D HAUBRICH			
CHECKED	R KOLLER			
LTR.	DATE	REVISIONS	BY	APPRD.
A	12/20/19	REVISED PER COWM	RK	RK

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 8657 BAYPINE ROAD SUITE 300, JACKSONVILLE, FL 32256 / (904) 744 5401

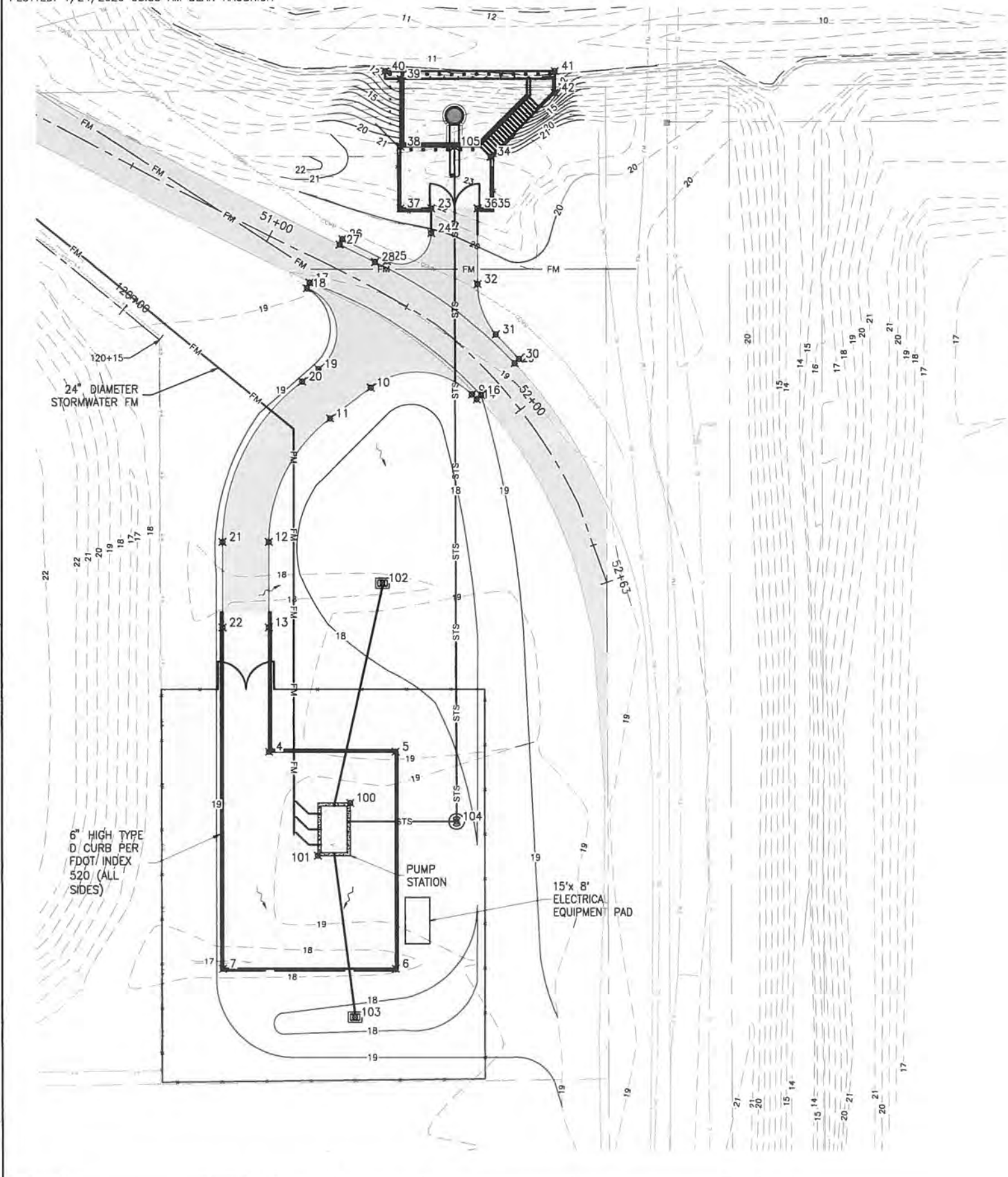
**CRANE CREEK M-1 CANAL FLOW RESTORATION
 ST. JOHN'S RIVER WATER MANAGEMENT DISTRICT**

PUMP STATION GRADING PLAN

CERTIFICATE OF AUTHORIZATION #1841	PROJECT NO:	DATE:
APPROVED BY	19750-066-01	DEC 2019
W. NICKEL	INDEX NO:	DWG NO:
P.E. # 68638		C4-2

PLOTTED: 1/24/2020 08:53 AM DEAN HAUBRICH

SAVED: 1/24/2020 8:43 AM DHAUBRICH Y:\19750-SURWMD\PROJECTS\066-01_CANE CREEK_M-1_FLOW_RESTORATION_DESIGN\CAD\DWGS\CIVIL\C4-3.DWG



PAVING COORDINATE TABLE

POINT	NORTHING	EASTING
1	1363503.63	751685.93
2	1363613.63	751629.93
3	1363613.63	751644.93
4	1363573.64	751644.93
5	1363573.63	751685.93
6	1363503.63	751685.93
7	1363503.64	751629.93
8	1363687.22	751712.27
9	1363688.81	751710.69
10	1363691.06	751677.92
11	1363681.09	751664.74
12	1363641.22	751644.93
13	1363613.63	751644.93
14	1363687.22	751712.27
15	1363688.60	751713.72
16	1363688.60	751713.72
17	1363724.88	751658.09
18	1363723.08	751657.21
19	1363697.07	751661.01
20	1363693.05	751655.69

PAVING COORDINATE TABLE

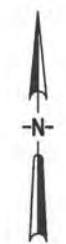
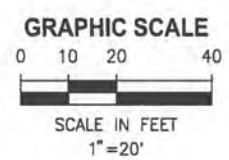
POINT	NORTHING	EASTING
21	1363641.22	751629.93
22	1363613.63	751629.93
23	1363748.84	751697.53
24	1363740.85	751697.53
25	1363731.87	751683.12
26	1363738.97	751668.70
27	1363737.17	751667.82
28	1363731.54	751679.28
29	1363698.92	751724.60
30	1363700.30	751726.05
31	1363708.22	751718.47
32	1363724.40	751712.53
33	1363748.84	751712.53
34	1363765.59	751716.76
35	1363748.84	751716.76
36	1363748.84	751712.53
37	1363748.84	751687.53
38	1363768.84	751687.53
39	1363790.75	751687.53
40	1363793.25	751682.53

PAVING COORDINATE TABLE

POINT	NORTHING	EASTING
41	1363793.25	751737.53
42	1363786.24	751737.53
100	1363557.11	751671.17

GRADING COORDINATE TABLE

POINT	NORTHING	EASTING
100	1363557.11	751671.17
101	1363540.13	751660.68
102	1363627.95	751681.74
103	1363488.02	751672.66
104	1363551.13	751705.64
105	1363768.84	751705.04



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DESIGNED	W NICKEL
DRAWN	D HAUBRICH
CHECKED	R KOLLER

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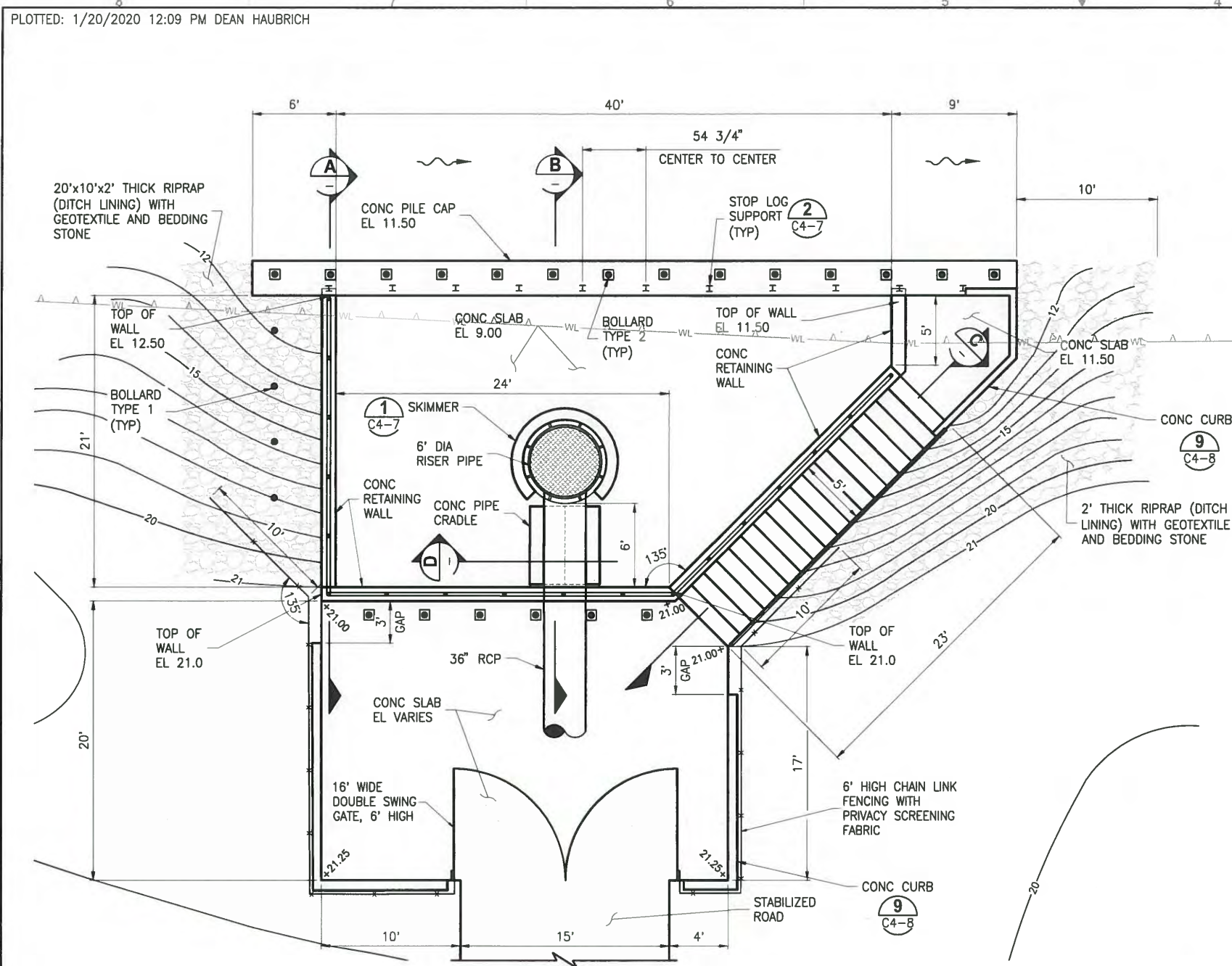
**CRANE CREEK M-1 CANAL FLOW RESTORATION
 ST. JOHN'S RIVER WATER MANAGEMENT DISTRICT**

**PUMP STATION
 GEOMETRIC CONTROL
 PLAN**

CERTIFICATE OF AUTHORIZATION #1841	PROJECT NO:	DATE:
APPROVED BY	19750-066-01	DEC 2019
W. NICKEL	INDEX NO:	DWG NO:
P.E. # 68638		C4-3

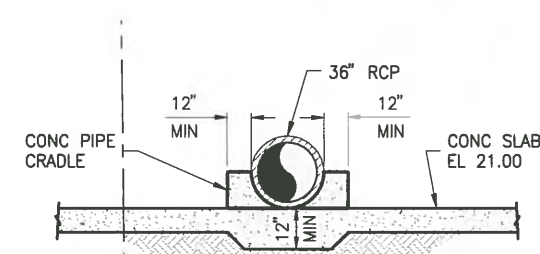
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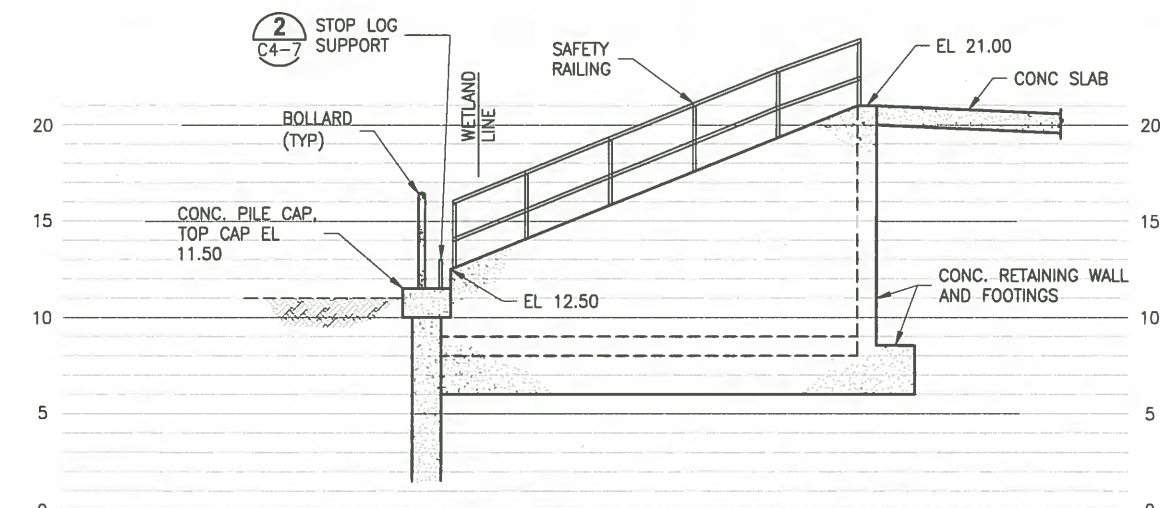


DETAIL 1
1"=5'

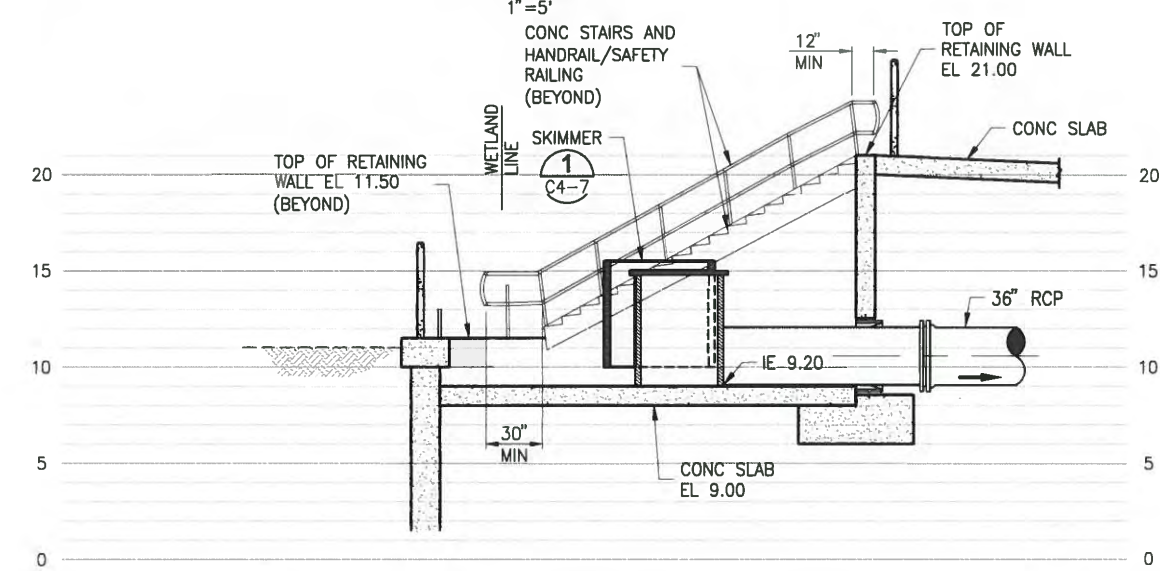
NOTE:
SEE STRUCTURAL DRAWINGS FOR ADDITIONAL DIMENSIONS AND DETAILS.



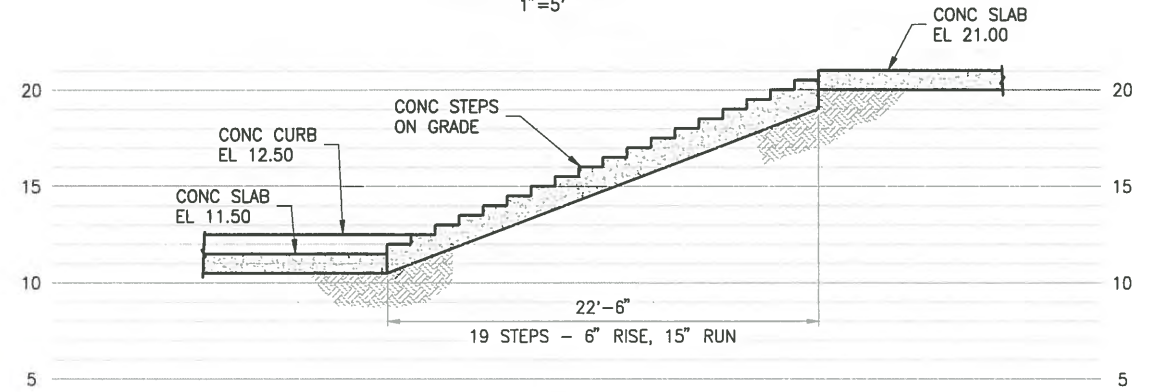
SECTION D-D
NTS



SECTION A-A
1"=5'

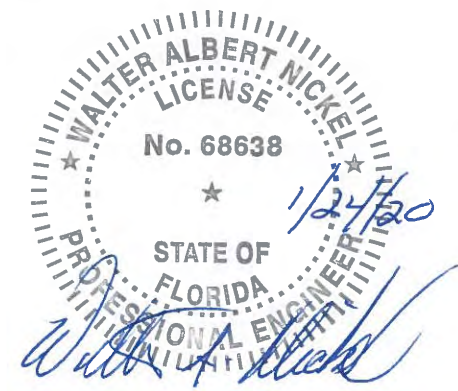


SECTION B-B
1"=5'



SECTION C-C
1"=5'

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DESIGNED	W NICKEL			
DRAWN	D HAUBRICH			
CHECKED	R KOLLER			
LTR.	DATE	REVISIONS	BY	APPRD.
A	12/20/19	REVISED PER COMM	RK	RK

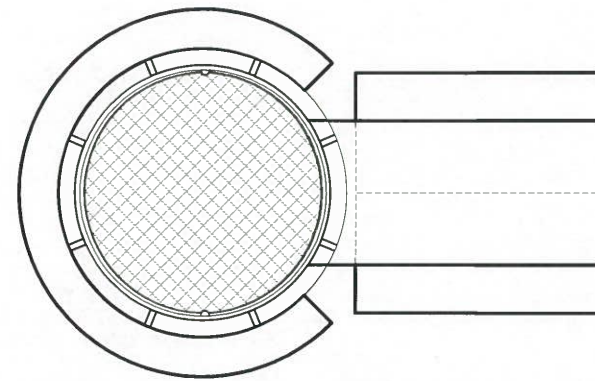
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CRANE CREEK M-1 CANAL FLOW RESTORATION
ST. JOHN'S RIVER WATER MANAGEMENT DISTRICT

PUMP STATION INTAKE
PLAN & SECTIONS

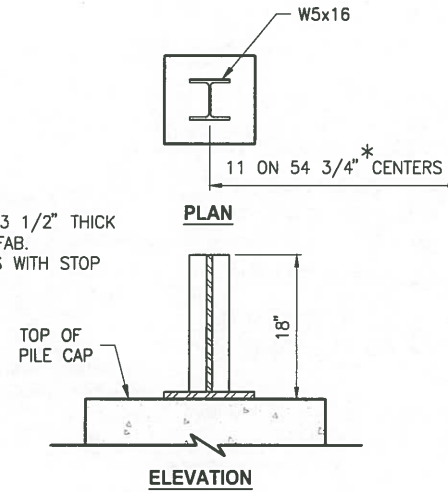
CERTIFICATE OF AUTHORIZATION #1841	PROJECT NO:	DATE:
APPROVED BY	19750-066-01	DEC 2019
W. NICKEL	INDEX NO:	DWG NO:
P.E. # 68638		C4-6

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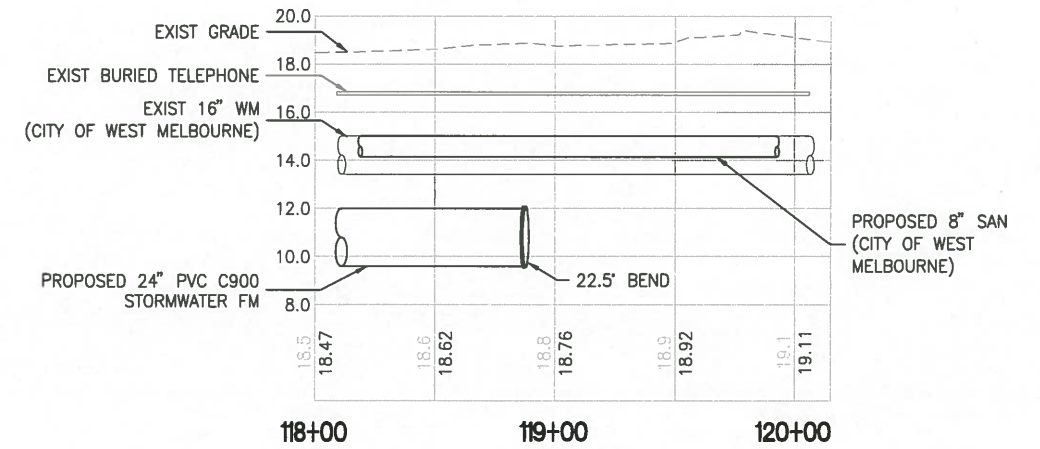


PLAN

NOTE:
 * DIMENSIONS BASED ON 3 1/2" THICK STOP LOGS BY PLASTI FAB. COORDINATE DIMENSIONS WITH STOP LOG PROVIDER.

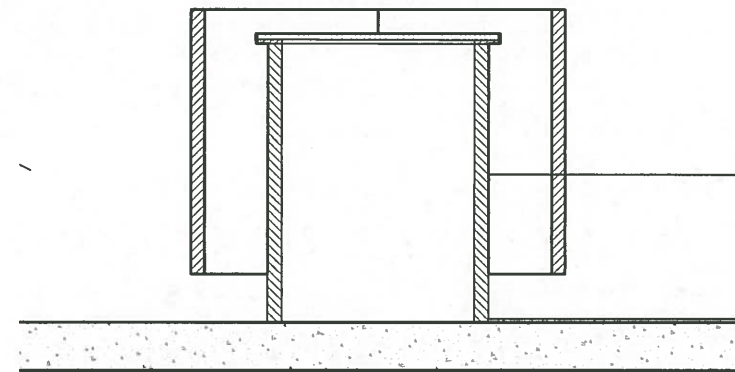


STOP LOG SUPPORT DETAIL 2
 NTS C4-6



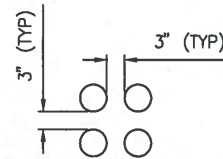
FORCEMAIN PROFILE

1"=40' HORIZ
 1"=4' VERT

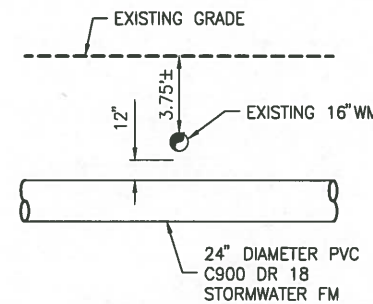


ELEVATION

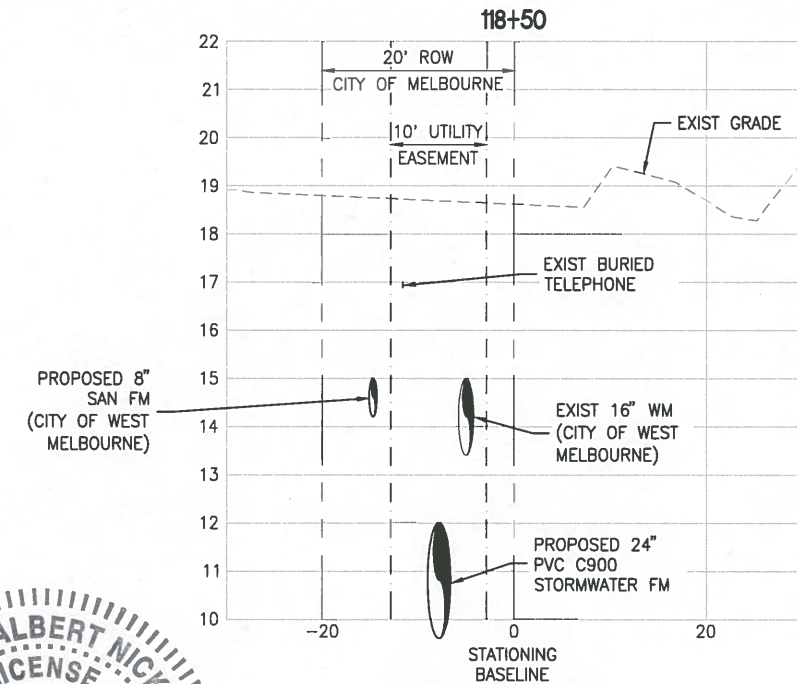
SKIMMER DETAIL 1
 1'=2' C4-6



HOLE PATTERN
 NTS

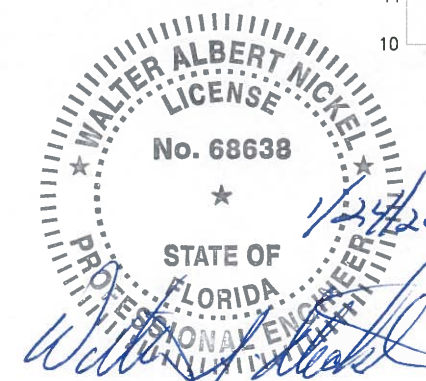


PIPE CONFLICT DETAIL 3
 NTS C4-1



SECTION 118+50

1"=10' HORIZ
 1"=2' VERT

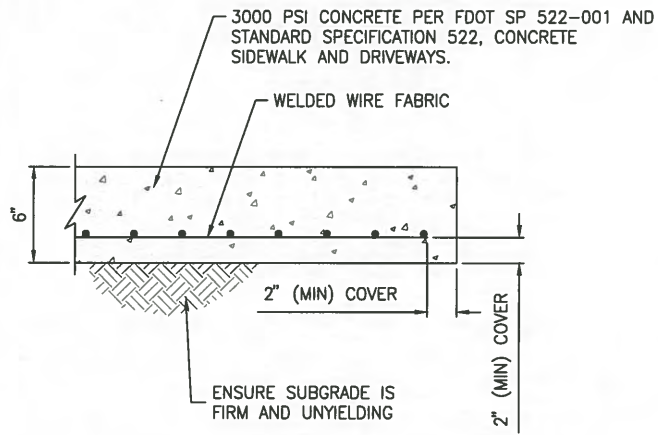


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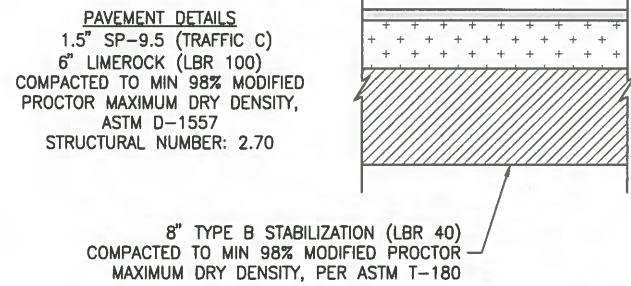
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DESIGNED <u>W NICKEL</u>		JonesEdmunds <small>CERTIFICATE OF AUTHORIZATION #1841 730 NE WALDO ROAD, GAINESVILLE, FLORIDA 32641 / (352) 377-5821 8657 BAYPINE ROAD SUITE 300, JACKSONVILLE, FL 32256 / (904) 744-5401</small>	CRANE CREEK M-1 CANAL FLOW RESTORATION ST. JOHN'S RIVER WATER MANAGEMENT DISTRICT		CIVIL DETAILS		CERTIFICATE OF AUTHORIZATION #1841 APPROVED BY W. NICKEL P.E. # 68638		PROJECT NO: 19750-066-01	DATE: DEC 2019
DRAWN <u>D HAUBRICH</u>							INDEX NO:		DWG NO: C4-7	
CHECKED <u>R KOLLER</u>										
LTR.	DATE	REVISIONS	BY	APPRD.						

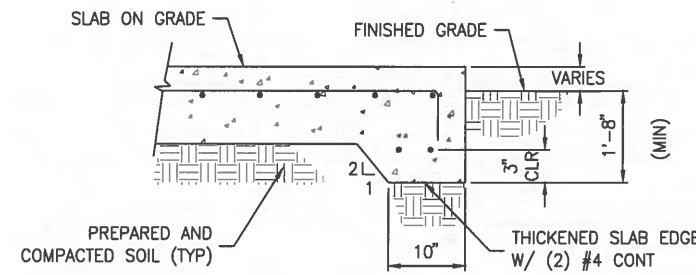
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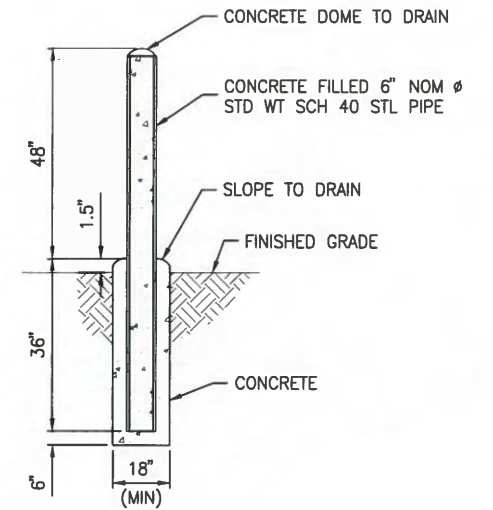
TYPICAL CONCRETE SLAB DETAIL (1)
NTS



TYPICAL ASPHALT PAVEMENT DETAIL (2)
NTS

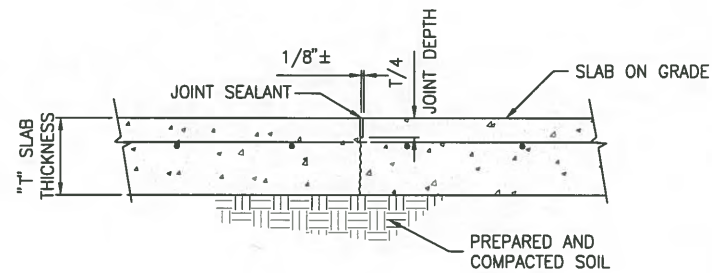


THICKENED SLAB EDGE (TS) DETAIL (3)
NTS



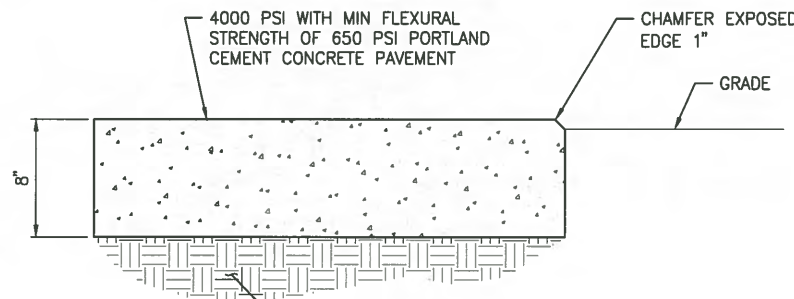
NOTES:
A. ACTUAL INSTALLATION LOCATION OF EACH BOLLARD SHALL BE AS SHOWN ON THE DRAWINGS OR AS DIRECTED IN THE FIELD.
B. PAINT ALL PIPING MATERIALS OSHA SAFETY YELLOW.

BOLLARD DETAIL (4)
NTS

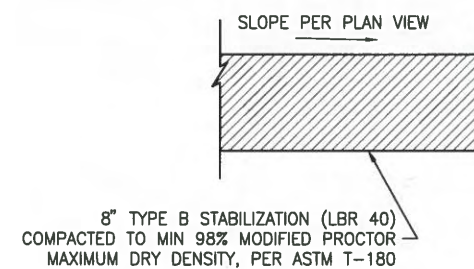


NOTE:
SAW-CUT JOINTS SHALL BE PERFORMED WITHIN 4 TO 8 HOURS AFTER CONCRETE PLACEMENT.

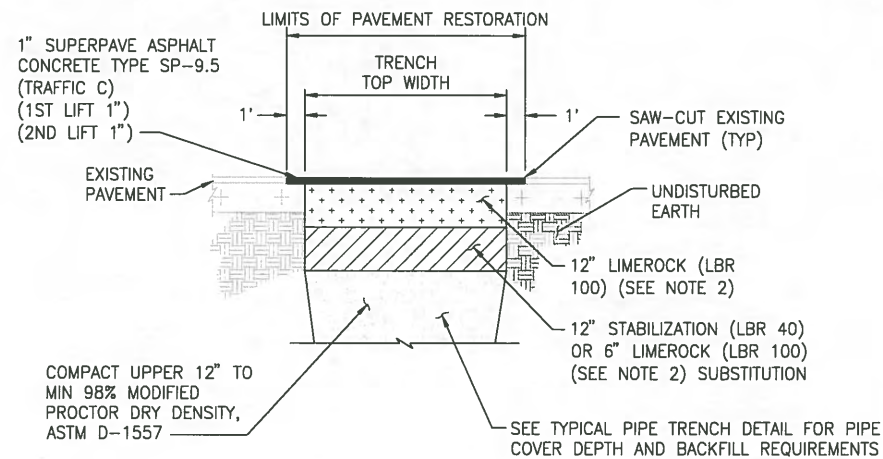
SAW-CUT CONTRACTION JOINT (SCJ) DETAIL (5)
NTS



CONCRETE PAVEMENT DETAIL (6)
NTS

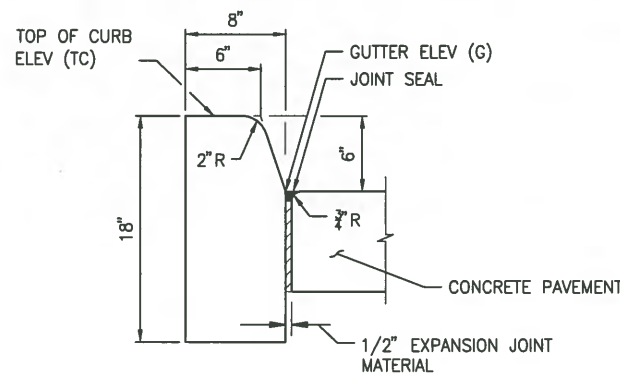


STABILIZED ROAD DETAIL (7)
NTS

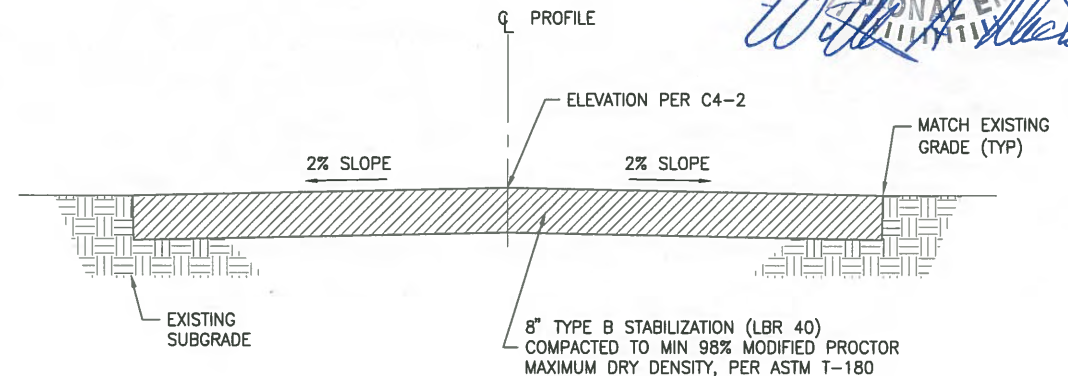


NOTES:
1. ASPHALT PAVEMENT RESTORATION DETAIL APPLIES TO COUNTY ROADS, DRIVEWAYS, PRIVATE ROADS, DRIVES, MISCELLANEOUS PATCHES, AND SIMILAR RESTORATION.
2. NEW LIMEROCK TO BE COMPACTED TO NOT LESS THAN 95% MODIFIED PROCTOR DRY DENSITY, ASTM D-1557.

ASPHALT PAVEMENT RESTORATION DETAIL (8)
NTS



FDOT TYPE D CURB DETAIL (9)
NTS



TYPICAL STABILIZED ROAD SECTION (10)
NTS



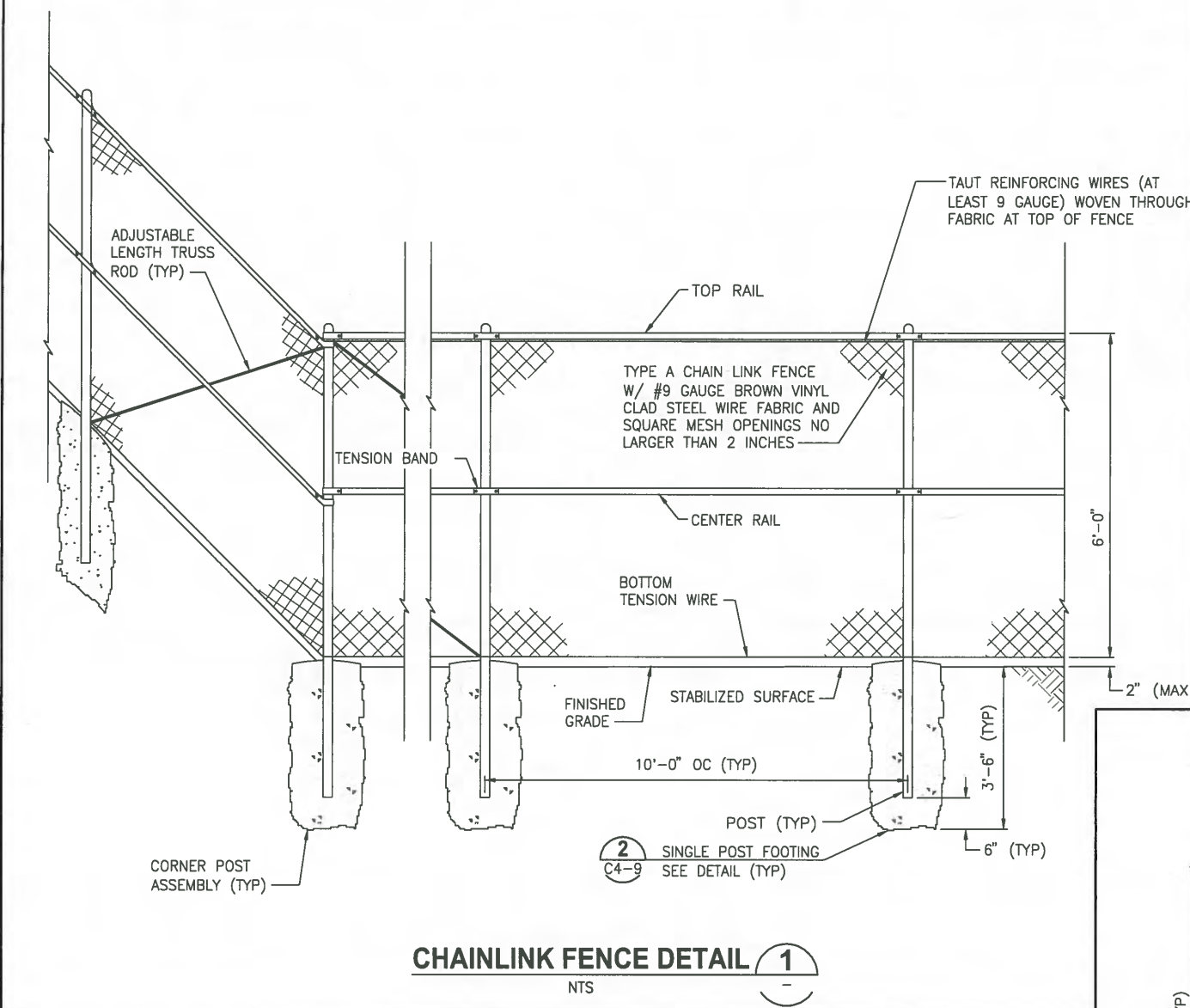
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SAVED: 1/24/2020 8:21 AM DHAUBRICH Y:\19750-SJRWMD\PROJECTS\066-01_CRANE_CREEK_M-1_FLOW_RESTORATION_DESIGN\CAD\DWGS\CIVIL\C4-8.DWG

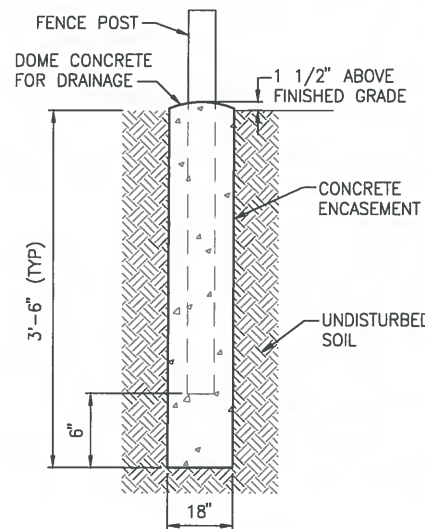
DESIGNED <u>W NICKEL</u>		JonesEdmunds <small>CERTIFICATE OF AUTHORIZATION #1841 730 NE WALDO ROAD, GAINESVILLE, FLORIDA 32641 / (352) 377-5821 8657 BAYPINE ROAD SUITE 300, JACKSONVILLE, FL 32256 / (904) 744-5401</small>	CRANE CREEK M-1 CANAL FLOW RESTORATION ST. JOHN'S RIVER WATER MANAGEMENT DISTRICT		CIVIL DETAILS		CERTIFICATE OF AUTHORIZATION #1841		PROJECT NO: 19750-066-01	DATE: DEC 2019
DRAWN <u>D HAUBRICH</u>							APPROVED BY	INDEX NO:	DWG NO: C4-8	
CHECKED <u>R KOLLER</u>							W. NICKEL	P.E. # 68638		

PLOTTED: 1/24/2020 08:54 AM DEAN HAUBRICH

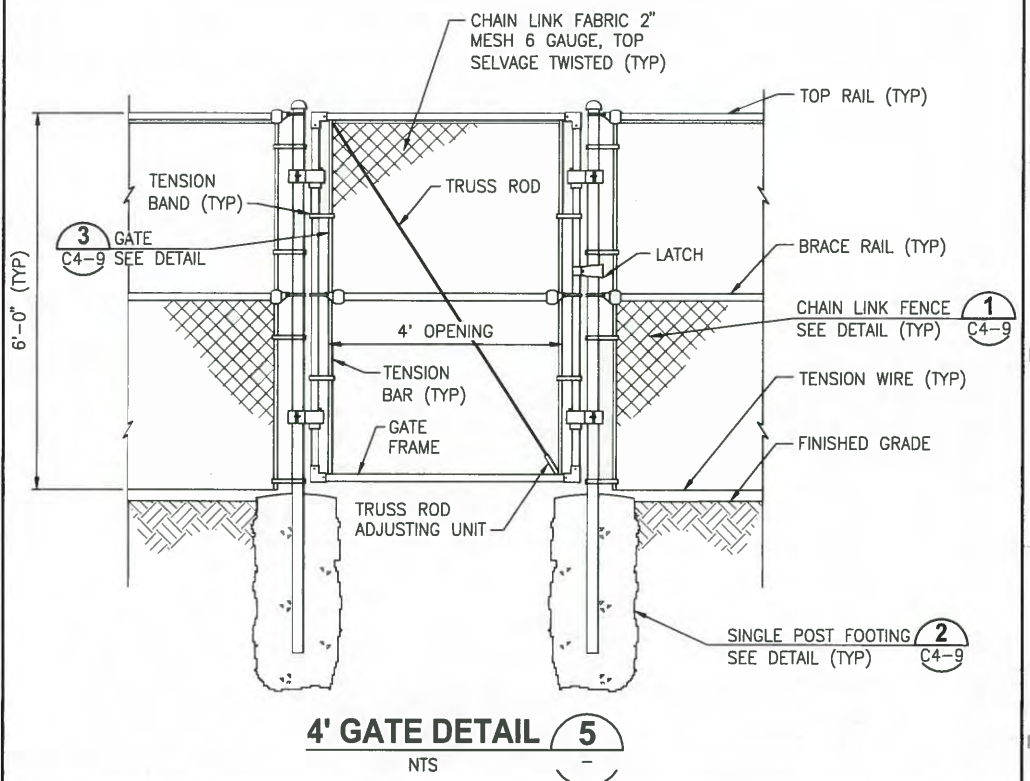
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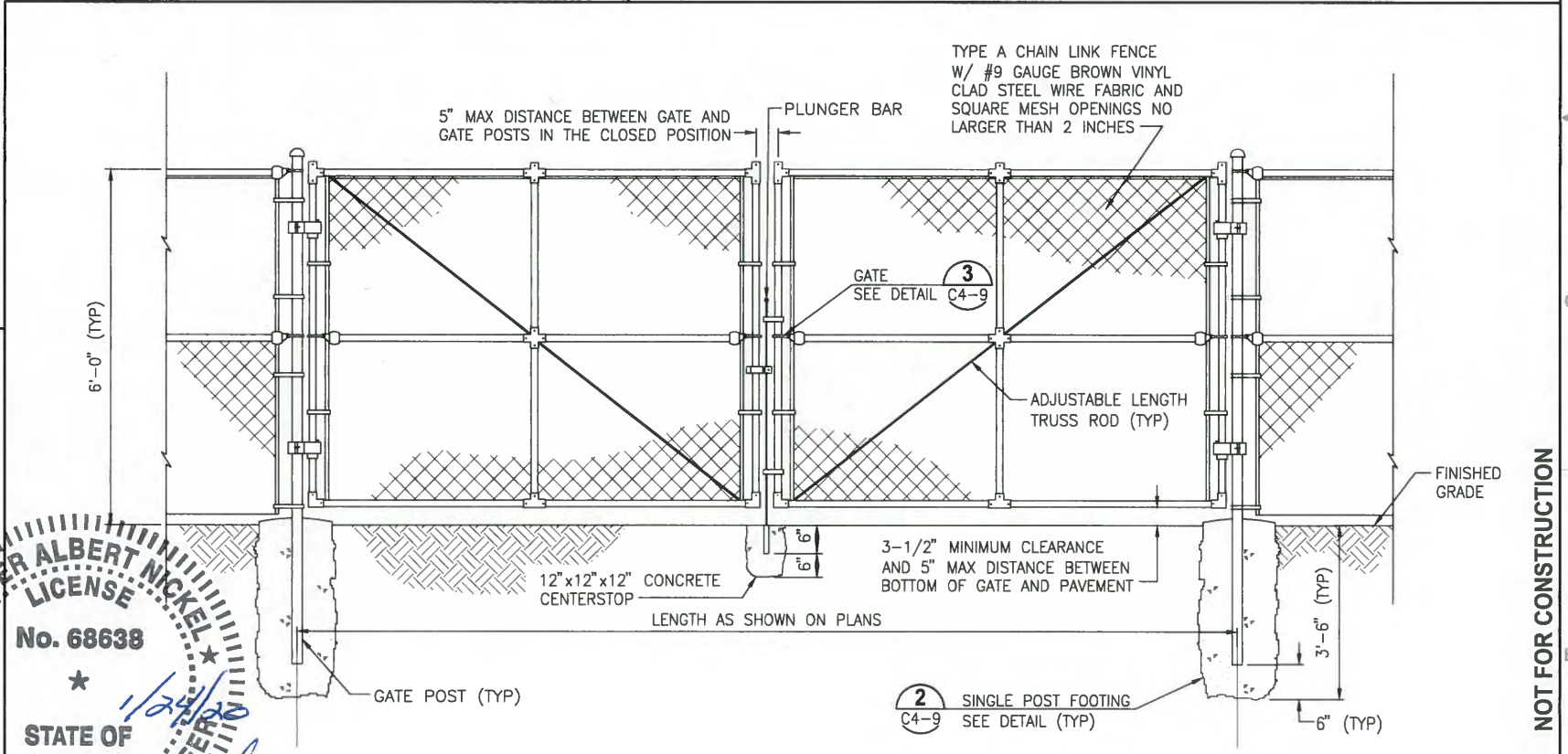
CHAINLINK FENCE DETAIL 1
NTS



SINGLE POST FOOTING DETAIL 2
NTS

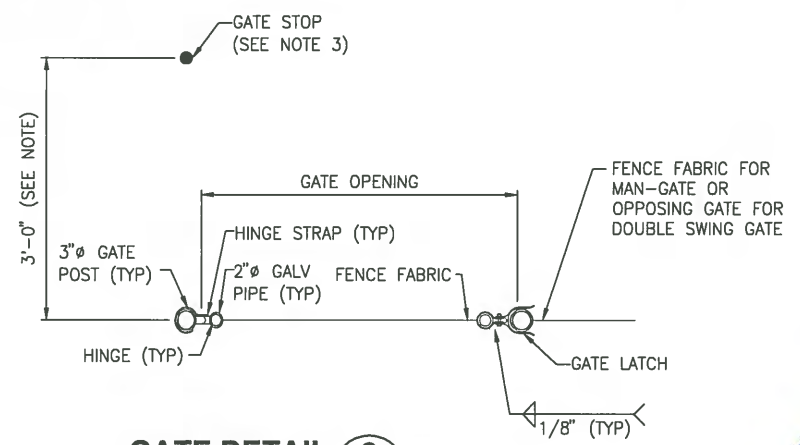


4' GATE DETAIL 5
NTS

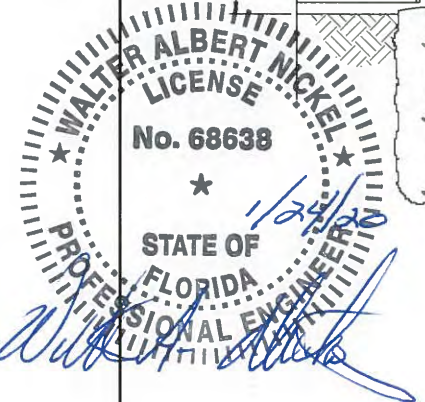


DOUBLE SWING GATE DETAIL 4
NTS

- NOTES:
- ALL GATES SHALL BE PROVIDED WITH A PAD-LOCKABLE MECHANISM.
 - "L" = GATE WIDTH.
 - GATE STOP SHALL BE 1" DIAMETER GALVANIZED STEEL DRIVEN 3' INTO THE GROUND AND PROTRUDING 8" ABOVE FINISHED GRADE (TYP OF EACH GATE).



GATE DETAIL 3
NTS



NOT FOR CONSTRUCTION

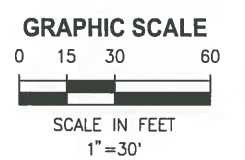
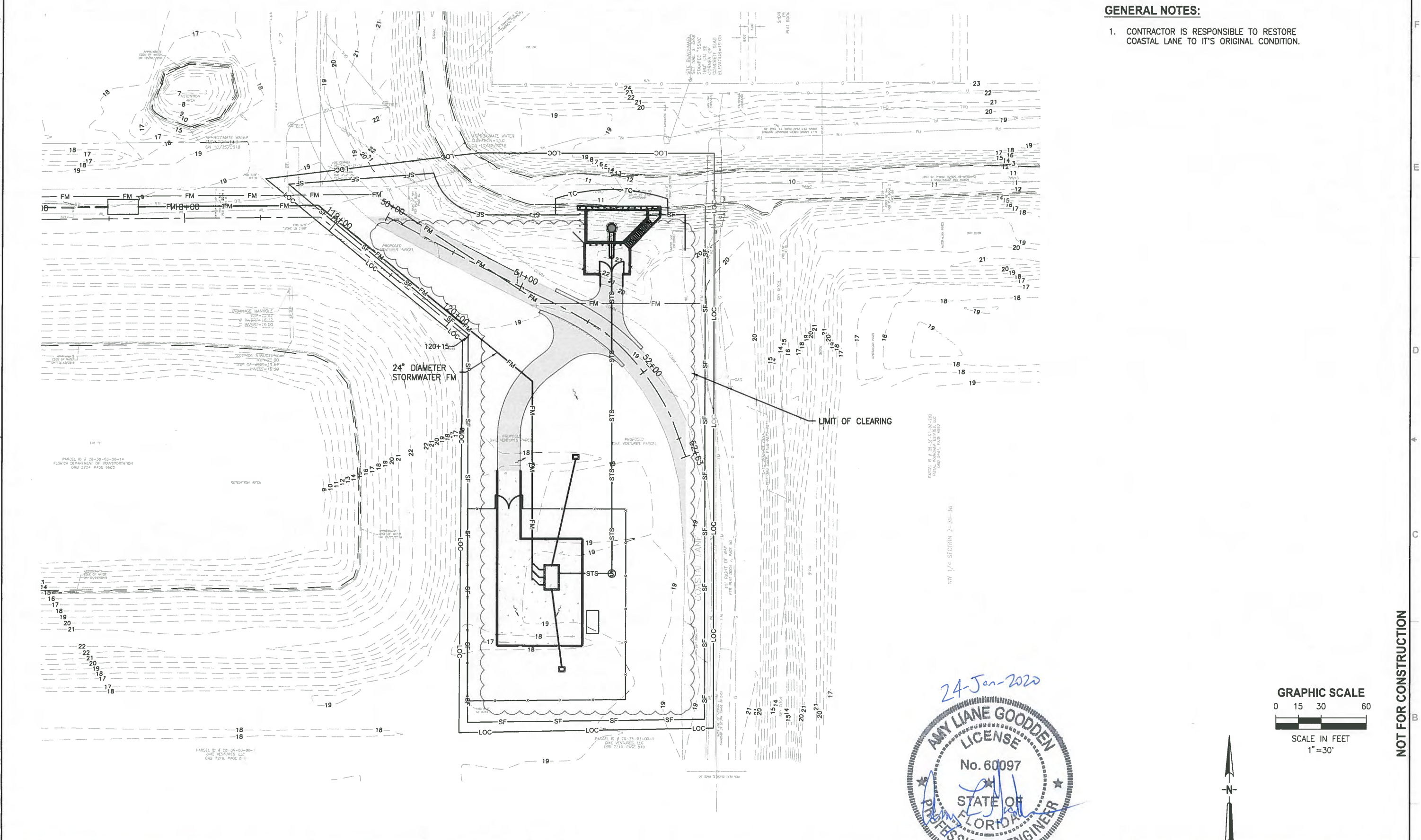
DESIGNED W NICKEL		<p>CERTIFICATE OF AUTHORIZATION #1841 730 NE WALDO ROAD, GAINESVILLE, FLORIDA 32641 / (352) 377-5821 8657 BAYLINE ROAD SUITE 300, JACKSONVILLE, FL 32256 / (904) 744-5401</p>	CRANE CREEK M-1 CANAL FLOW RESTORATION		CIVIL DETAILS	CERTIFICATE OF AUTHORIZATION #1841		PROJECT NO:	DATE:
DRAWN D HAUBRICH			ST. JOHN'S RIVER WATER MANAGEMENT DISTRICT			APPROVED BY:	19750-066-01	DEC 2019	
CHECKED R KOLLER						W. NICKEL	INDEX NO:	DWG NO:	
LTR.	DATE	REVISIONS	BY	APPRD.	P.E. # 68638		C4-9		

PLOTTED: 1/24/2020 08:55 AM DEAN HAUBRICH

GENERAL NOTES:

1. CONTRACTOR IS RESPONSIBLE TO RESTORE COASTAL LANE TO IT'S ORIGINAL CONDITION.

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NOT FOR CONSTRUCTION

LTR.	DATE	REVISIONS	BY	APPRD.
A	12/20/19	REVISED PER COWM	RK	RK

DESIGNED	A GOODDEN
DRAWN	D HAUBRICH
CHECKED	R KOLLER

JonesEdmunds
 CERTIFICATE OF AUTHORIZATION #1841
 730 NE WALDO ROAD, GAINESVILLE, FLORIDA 32641 / (352) 377-5821
 8657 BAYPINE ROAD SUITE 300, JACKSONVILLE, FL 32256 / (904) 744-5401

**CRANE CREEK M-1 CANAL FLOW RESTORATION
 ST. JOHN'S RIVER WATER MANAGEMENT DISTRICT**

**DEWATERING & EROSION CONTROL
 PLAN**

CERTIFICATE OF AUTHORIZATION #1841	PROJECT NO:	DATE:
APPROVED BY	19750-066-01	DEC 2019
A. GOODDEN	INDEX NO:	DWG NO:
P.E. # 60097		EC4-1

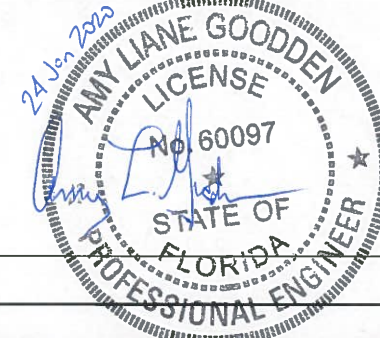
PLOTTED: 1/24/2020 08:55 AM DEAN HAUBRICH

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NOT FOR CONSTRUCTION

CONTRACTOR REQUIREMENTS

SITE DESCRIPTION	GENERAL	SPILL PREVENTION	MAINTENANCE/INSPECTION PROCEDURES																																		
<p>PROJECT NAME(S) AND LOCATION: CRANE CREEK M-1 CANAL FLOW RESTORATION, PUMP STATION</p> <p>COUNTY: SECTIONS 03, TOWNSHIP 28S; RANGE 36E</p> <p>PROPERTY OWNER AND ADDRESS: PROPERTY PURCHASE TO BE FINALIZED PRIOR TO CONSTRUCTION ST. JOHN'S RIVER WATER MANAGEMENT DISTRICT 4049 RED STREET PALATKA, FLORIDA 32177</p> <p>DESCRIPTION: THIS PROJECT WILL CONSIST OF: THE CONSTRUCTION OF A NEW STORMWATER PUMP STATION, PUMP STATION INLET, ACCESS DRIVEWAY, CONCRETE PAD, AND ASSOCIATED GRADING.</p> <p>SOIL DISTURBING ACTIVITIES WILL INCLUDE: CLEARING, GRUBBING; INSTALLING STABILIZED CONSTRUCTION ENTRANCE, PERIMETER, AND OTHER EROSION AND SEDIMENT CONTROLS; GRADING; EXCAVATION FOR STORMWATER PUMP STATION, CONSTRUCTION OF ACCESS DRIVEWAY.</p> <p>SOILS: SEE GEOTECHNICAL REPORT FOR SOILS DATA.</p> <p>SITE MAPS: SEE ATTACHED GRADING PLAN FOR PRE & POST DEVELOPMENT GRADES, AREAS OF SOILS, DISTURBANCE, LOCATION OF SURFACE WATERS, WETLANDS, PROTECTED AREAS, MAJOR STRUCTURAL AND NONSTRUCTURAL CONTROLS AND STORM WATER DISCHARGE POINTS. SEE ATTACHED EROSION & TURBIDITY CONTROL PLAN FOR LOCATION OF TEMPORARY STABILIZATION PRACTICES, AND TURBIDITY BARRIERS. SEE GENERAL NOTES AND SPECIFICATIONS FOR REQUIREMENTS FOR TEMPORARY AND PERMANENT STABILIZATION.</p> <p>SITE AREA: TOTAL AREA OF SITE - 1.15 ACRES TOTAL AREA TO BE DISTURBED - 1 ACRES</p> <p>NAME OF RECEIVING WATERS: M-1 CANAL STORMWATER TREATMENT PROVIDED BY STORMWATER TREATMENT AREA BY WAY OF THE M-1 CANAL AND M-1 CANAL PUMP STATION.</p> <p>CONTROLS THIS PLAN UTILIZES BEST MANAGEMENT PRACTICES TO CONTROL EROSION AND TURBIDITY CAUSED BY STORM WATER RUN OFF, AN EROSION & TURBIDITY PLAN HAS BEEN PREPARED TO INSTRUCT THE CONTRACTOR ON PLACEMENT OF THESE CONTROLS. IT IS THE CONTRACTORS RESPONSIBILITY TO INSTALL AND MAINTAIN THE CONTROLS AS PER PLAN AS WELL AS ENSURING THE PLAN IS PROVIDING THE PROPER PROTECTION AS REQUIRED BY FEDERAL, STATE, AND LOCAL LAWS. REFER TO 'CONTRACTORS REQUIREMENTS' FOR A VERBAL DESCRIPTION OF THE CONTROLS THAT MAY BE IMPLEMENTED.</p> <p>CERTIFICATION OF COMPLIANCE WITH FEDERAL, STATE, AND LOCAL REGULATIONS IN AN EFFORT TO ENSURE COMPLIANCE WITH FEDERAL, STATE, AND LOCAL LAWS REGARDING EROSION AND TURBIDITY CONTROLS, THE FOLLOWING PERMITS HAVE BEEN OBTAINED. FDEP ERP PERMIT: TBD U.S.A.C.E. PERMIT: N/A</p> <p>POLLUTION PREVENTION PLAN CERTIFICATION I CERTIFY UNDER PENALTY OF LAW THAT THIS DOCUMENT AND ALL ATTACHMENTS WERE PREPARED UNDER MY DIRECTION OR SUPERVISION IN ACCORDANCE WITH A SYSTEM DESIGNED TO ASSURE THAT QUALIFIED PERSONNEL PROPERLY GATHERED AND EVALUATED THE INFORMATION SUBMITTED, BASED ON MY INQUIRY OF THE PERSON OR PERSONS WHO MANAGE THE SYSTEM, OR THOSE PERSONS DIRECTLY RESPONSIBLE FOR GATHERING THE INFORMATION, THE INFORMATION SUBMITTED IS, TO THE BEST OF MY KNOWLEDGE AND BELIEF, TRUE, ACCURATE, AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT FOR KNOWING VIOLATIONS. SIGNED: _____ TITLE: _____ DATE: _____</p> <p>TIMING OF CONTROLS/MEASURES AS INDICATED IN THE SEQUENCE OF MAJOR ACTIVITIES, THE SILT FENCES, STABILIZED CONSTRUCTION ENTRANCE AND TURBIDITY CURTAIN WILL BE CONSTRUCTED PRIOR TO CLEARING OR GRADING OF ANY OTHER PORTIONS OF THE SITE. STABILIZATION MEASURES SHALL BE INITIATED AS SOON AS PRACTICAL IN PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITIES HAVE TEMPORARILY OR PERMANENTLY CEASED. ONCE CONSTRUCTION ACTIVITY CEASES PERMANENTLY IN ACCORDANCE WITH THE PLANS AND AFTER THE ENTIRE SITE IS STABILIZED, THE ACCUMULATED SEDIMENT WILL BE REMOVED FROM THE SEDIMENT TRAPS AND STABILIZED IN ACCORDANCE WITH THE SEDIMENT AND EROSION CONTROL PLAN.</p>	<p>GENERAL THE CONTRACTOR SHALL AT A MINIMUM IMPLEMENT THE CONTRACTORS REQUIREMENTS OUTLINED BELOW AND THOSE MEASURES SHOWN ON THE EROSION AND TURBIDITY CONTROL PLAN. IN ADDITION THE CONTRACTOR SHALL UNDERTAKE ADDITIONAL MEASURES REQUIRED TO BE IN COMPLIANCE WITH APPLICABLE PERMIT CONDITIONS AND STATE WATER QUALITY STANDARDS DEPENDING ON THE NATURE OF MATERIALS AND METHODS OF CONSTRUCTION.</p> <p>SEQUENCE OF MAJOR ACTIVITIES</p> <table border="0"> <tr> <td>1. COMPLETE AND SUBMIT NOTICE OF INTENT (NOI) TO FDEP.</td> <td>14. CONSTRUCT DRIVE AREAS.</td> </tr> <tr> <td>2. INSPECT AND DOCUMENT CONDITION OF COASTAL LANE.</td> <td>15. COMPLETE GRADING AND INSTALL PERMANENT SEEDING/SOD.</td> </tr> <tr> <td>3. INSTALL STABILIZED CONSTRUCTION ENTRANCES.</td> <td>16. WHEN ALL CONSTRUCTION ACTIVITY IS COMPLETE AND THE SITE IS STABILIZED, REMOVE ANY TEMPORARY DIVERSION SWALES/DIKES AND RESEED/SOD AS REQUIRED.</td> </tr> <tr> <td>4. INSTALL SILT FENCES AND OTHER EROSION CONTROL DEVICES.</td> <td>17. RESTORE COASTAL LANE TO ORIGINAL CONDITION.</td> </tr> <tr> <td>5. STOCK PILE TOP SOIL AS REQUIRED.</td> <td>18. COMPLETE AND SUBMIT NOTICE OF TERMINATION (NOT) TO FDEP.</td> </tr> <tr> <td>6. PERFORM PRELIMINARY GRADING ON SITE AS REQUIRED.</td> <td></td> </tr> <tr> <td>7. STABILIZE CLEARED AREAS AND STOCKPILES AS SOON AS PRACTICABLE.</td> <td></td> </tr> <tr> <td>8. CONSTRUCT STORMWATER PUMP STATION</td> <td></td> </tr> <tr> <td>9. INSTALL TURBIDITY CURTAIN.</td> <td></td> </tr> <tr> <td>10. CONSTRUCT INLET AND INLET PIPING.</td> <td></td> </tr> <tr> <td>13. CONSTRUCT DRIVE AREAS.</td> <td></td> </tr> </table> <p>CONTROLS IT IS THE CONTRACTORS RESPONSIBILITY TO IMPLEMENT THE EROSION AND TURBIDITY CONTROLS AS SHOWN ON THE SEDIMENT AND EROSION CONTROL PLAN. IT IS ALSO THE CONTRACTORS RESPONSIBILITY TO ENSURE THESE CONTROLS ARE PROPERLY INSTALLED, MAINTAINED AND FUNCTIONING PROPERLY TO PREVENT TURBID OR POLLUTED WATER FROM LEAVING THE PROJECT SITE. THE CONTRACTOR WILL ADJUST THE EROSION CONTROL PLAN AND ADD ADDITIONAL CONTROL MEASURES, AS REQUIRED, TO ENSURE THE SITE MEETS ALL FEDERAL STATE AND LOCAL EROSION AND SEDIMENT CONTROL PLAN AND AS REQUIRED TO MEET THE SEDIMENT AND TURBIDITY REQUIREMENTS IMPOSED ON THE PROJECT SITE BY THE REGULATORY AGENCIES.</p> <p>EROSION AND SEDIMENT CONTROLS STABILIZATION PRACTICES</p> <ol style="list-style-type: none"> FILTER FABRIC BARRIER: FILTER FABRIC BARRIERS CAN BE USED BELOW DISTURBED AREAS SUBJECT TO SHEET AND RILL EROSION WITH THE FOLLOWING LIMITATIONS: A. WHERE THE MAXIMUM SLOPE BEHIND THE BARRIER IS 33 PERCENT. B. IN MINOR SWALES OR DITCH LINES WHERE THE MAXIMUM CONTRIBUTING DRAINAGE AREA IS NO GREATER THAN 2.0 ACRES. BRUSH BARRIER WITH FILTER FABRIC: BRUSH BARRIER MAY BE USED BELOW DISTURBED AREAS SUBJECT TO SHEET AND RILL EROSION WHERE ENOUGH RESIDUE MATERIAL IS AVAILABLE ON SITE. LEVEL SPREADER: A LEVEL SPREADER MAY BE USED WHERE SEDIMENT-FREE STORM RUNOFF IS INTERCEPTED AND DIVERTED AWAY FROM THE GRADED AREAS ONTO UNDISTURBED STABILIZED AREAS. THIS PRACTICE APPLIES ONLY IN THOSE SITUATIONS WHERE THE SPREADER CAN BE CONSTRUCTED ON UNDISTURBED SOIL AND THE AREA BELOW THE LEVEL UP IS STABILIZED. THE WATER SHOULD NOT BE ALLOWED TO RECONCENTRATE AFTER RELEASE. STOCKPILING MATERIAL: NO EXCAVATED MATERIAL SHALL BE STOCKPILED IN SUCH A MANNER AS TO DIRECT RUNOFF DIRECTLY OFF THE PROJECT SITE INTO ANY ADJACENT WATER BODY OR STORM WATER COLLECTION FACILITY. EXPOSED AREA LIMITATION: THE SURFACE AREA OF OPEN, ERODIBLE SOIL EXPOSED BY CLEARING GRUBBING OPERATIONS OR EXCAVATION AND FILLING OPERATIONS SHALL NOT EXCEED 2.0 ACRES. THIS REQUIREMENT MAY BE WAIVED BY THE OWNER WITH A DETAILED EROSION CONTROL PLAN PREPARED BY THE CONTRACTOR. THE DETAILED PLAN MUST INCLUDE A SCHEDULE, DESCRIPTION OF CONSTRUCTION MEANS AND METHODS AND EROSION CONTROL MANAGEMENT PRACTICES WHICH DEMONSTRATES THAT OPENING OF ADDITIONAL AREA WILL NOT SIGNIFICANTLY AFFECT OFF-SITE DEPOSIT OF SEDIMENTS. TEMPORARY SEEDING: AREAS OPENED BY CONSTRUCTION OPERATIONS AND THAT ARE NOT ANTICIPATED TO BE RE-EXCAVATED OR DRESSED AND RECEIVE FINAL GRASSING TREATMENT WITHIN 21 DAYS SHALL BE SEEDDED WITH A QUICK GROWING GRASS. SPECIES WHICH WILL PROVIDE AN EARLY COVER DURING THE SEASON IN WHICH IT IS PLANTED AND WILL NOT LATER COMPETE WITH THE PERMANENT GRASSING. <p>INVENTORY FOR POLLUTION PREVENTION PLAN THE MATERIAL OR SUBSTANCES LISTED BELOW ARE EXPECTED TO BE PRESENT ONSITE DURING CONSTRUCTION:</p> <table border="0"> <tr> <td>CONCRETE</td> <td>FERTILIZERS</td> <td>WOOD</td> </tr> <tr> <td>DETERGENTS</td> <td>PETROLEUM BASED PRODUCTS</td> <td></td> </tr> <tr> <td></td> <td>CLEANING SOLVENTS</td> <td></td> </tr> <tr> <td></td> <td>PAINTS</td> <td></td> </tr> </table>	1. COMPLETE AND SUBMIT NOTICE OF INTENT (NOI) TO FDEP.	14. CONSTRUCT DRIVE AREAS.	2. INSPECT AND DOCUMENT CONDITION OF COASTAL LANE.	15. COMPLETE GRADING AND INSTALL PERMANENT SEEDING/SOD.	3. INSTALL STABILIZED CONSTRUCTION ENTRANCES.	16. WHEN ALL CONSTRUCTION ACTIVITY IS COMPLETE AND THE SITE IS STABILIZED, REMOVE ANY TEMPORARY DIVERSION SWALES/DIKES AND RESEED/SOD AS REQUIRED.	4. INSTALL SILT FENCES AND OTHER EROSION CONTROL DEVICES.	17. 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CONCRETE	FERTILIZERS	WOOD	DETERGENTS	PETROLEUM BASED PRODUCTS			CLEANING SOLVENTS			PAINTS		<p>SPILL PREVENTION MATERIAL MANAGEMENT PRACTICES THE FOLLOWING ARE THE MATERIAL MANAGEMENT PRACTICES THAT WILL BE USED TO REDUCE THE RISK OF SPILLS OR OTHER ACCIDENTAL EXPOSURE OF MATERIALS AND SUBSTANCES TO STORM WATER RUNOFF.</p> <p>GOOD HOUSEKEEPING THE FOLLOWING GOOD HOUSEKEEPING PRACTICES WILL BE FOLLOWED ONSITE DURING THE CONSTRUCTION PROJECT.</p> <p>AN EFFORT WILL BE MADE TO STORE ONLY ENOUGH PRODUCT REQUIRED TO DO THE JOB.</p> <p>ALL MATERIALS STORED ONSITE WILL BE STORED IN A NEAT, ORDERLY MANNER IN THEIR APPROPRIATE CONTAINERS AND, IF POSSIBLE, UNDER A ROOF OR OTHER ENCLOSURE.</p> <p>PRODUCTS WILL BE KEPT IN THEIR ORIGINAL CONTAINERS WITH THE ORIGINAL MANUFACTURER'S LABEL.</p> <p>SUBSTANCES WILL NOT BE MIXED WITH ONE ANOTHER UNLESS RECOMMENDED BY THE MANUFACTURER.</p> <p>WHENEVER POSSIBLE, ALL OF A PRODUCT WILL BE USED UP BEFORE DISPOSING OF THE CONTAINER.</p> <p>MANUFACTURER'S RECOMMENDATIONS FOR PROPER USE AND DISPOSAL WILL BE FOLLOWED.</p> <p>HAZARDOUS PRODUCTS THESE PRACTICES ARE USED TO REDUCE THE RISKS ASSOCIATED WITH HAZARDOUS MATERIALS.</p> <p>PRODUCTS WILL BE KEPT IN ORIGINAL CONTAINERS UNLESS THEY ARE NOT RESEALABLE.</p> <p>ORIGINAL LABELS AND MATERIAL SAFETY DATA WILL BE RETAINED; THEY CONTAIN IMPORTANT PRODUCT INFORMATION.</p> <p>IF SURPLUS PRODUCT MUST BE DISPOSED OF MANUFACTURER'S OR LOCAL AND STATE RECOMMENDED METHODS FOR PROPER DISPOSAL WILL BE FOLLOWED.</p> <p>PRODUCT SPECIFIC PRACTICES THE FOLLOWING PRODUCT SPECIFIC PRACTICES WILL BE FOLLOWED ONSITE:</p> <p>PETROLEUM PRODUCTS ALL ONSITE VEHICLES WILL BE MONITORED FOR LEAKS AND RECEIVE REGULAR PREVENTATIVE MAINTENANCE TO REDUCE THE CHANCE OF LEAKAGE. PETROLEUM PRODUCTS WILL BE STORED IN TIGHTLY SEALED CONTAINERS WHICH ARE CLEARLY LABELED. ANY ASPHALT SUBSTANCES USED ONSITE WILL BE APPLIED ACCORDING TO THE MANUFACTURER'S RECOMMENDATIONS.</p> <p>FERTILIZERS FERTILIZERS USED WILL BE APPLIED ONLY IN THE MINIMUM AMOUNTS RECOMMENDED BY THE MANUFACTURER. ONCE APPLIED, FERTILIZER WILL BE WORKED INTO THE SOIL TO LIMIT EXPOSURE TO STORM WATER. STORAGE WILL BE IN A COVERED AREA. THE CONTENTS OF ANY PARTIALLY USED BAGS OF FERTILIZER WILL BE TRANSFERRED TO A SEALABLE PLASTIC BIN TO AVOID SPILLS.</p> <p>PAINTS ALL CONTAINERS WILL BE TIGHTLY SEALED AND STORED WHEN NOT REQUIRED FOR USE. EXCESS PAINT WILL NOT BE DISCHARGED TO THE STORM SEWER SYSTEM BUT WILL BE PROPERLY DISPOSED OF ACCORDING TO MANUFACTURER'S INSTRUCTIONS OR STATE AND LOCAL REGULATIONS.</p> <p>CONCRETE TRUCKS CONCRETE TRUCKS WILL NOT BE ALLOWED TO WASH OUT OR DISCHARGE SURPLUS CONCRETE OR DRUM WASH WATER TO DITCHES, PONDS OR OTHER WATERWAYS. WASHWATER SHALL BE COLLECTED IN A TEMPORARY SETTLING POND.</p> <p>OTHER CONTROLS WASTE DISPOSAL WASTE MATERIALS ALL WASTE MATERIALS EXCEPT LAND CLEARING DEBRIS SHALL BE COLLECTED AND STORED IN A METAL DUMPSTER. THE DUMPSTER WILL MEET ALL LOCAL AND STATE SOLID WASTE MANAGEMENT REGULATIONS. THE DUMPSTER WILL BE EMPTIED AS NEEDED AND THE TRASH WILL BE HAULED TO A STATE APPROVED LANDFILL. ALL PERSONNEL WILL BE INSTRUCTED REGARDING THE CORRECT PROCEDURE FOR WASTE DISPOSAL. NOTICES STATING THESE PRACTICES WILL BE POSTED AT THE CONSTRUCTION SITE BY THE CONSTRUCTION SUPERINTENDENT, THE INDIVIDUAL WHO MANAGES THE DAY-TO-DAY SITE OPERATIONS, WILL BE RESPONSIBLE FOR SEEING THAT THESE PROCEDURES ARE FOLLOWED.</p> <p>HAZARDOUS WASTE ALL HAZARDOUS WASTE MATERIALS WILL BE DISPOSED OF IN THE MANNER SPECIFIED BY LOCAL OR STATE REGULATION OR BY THE MANUFACTURER. SITE PERSONNEL WILL BE INSTRUCTED IN THESE PRACTICES AND THE SITE SUPERINTENDENT, THE INDIVIDUAL WHO MANAGES DAY-TO-DAY SITE OPERATIONS, WILL BE RESPONSIBLE FOR SEEING THAT THESE PRACTICES ARE FOLLOWED.</p> <p>SANITARY WASTE ALL SANITARY WASTE WILL BE COLLECTED FROM THE PORTABLE UNITS AS NEEDED TO PREVENT POSSIBLE SPILLAGE. THE WASTE WILL BE COLLECTED AND DISPOSED OF IN ACCORDANCE WITH STATE AND LOCAL WASTE DISPOSAL REGULATIONS FOR SANITARY SEWER OR SEPTIC SYSTEMS.</p> <p>OFFSITE VEHICLE TRACKING A STABILIZED CONSTRUCTION ENTRANCE WILL BE PROVIDED TO HELP REDUCE VEHICLE TRACKING OF SEDIMENTS. DUMP TRUCKS HAULING MATERIAL FROM THE CONSTRUCTION SITE WILL BE COVERED WITH A TARP.</p>	<p>EROSION AND SEDIMENT CONTROL INSPECTION AND MAINTENANCE PRACTICES THE FOLLOWING ARE INSPECTION AND MAINTENANCE PRACTICES THAT WILL BE USED TO MAINTAIN EROSION AND SEDIMENT CONTROLS.</p> <p>NO MORE THAN ACRES OF THE SITE WILL BE CLEARED AT ONE TIME WITHOUT WRITTEN PERMISSION FROM THE ENGINEER.</p> <p>ALL CONTROL MEASURES WILL BE INSPECTED BY A CERTIFIED SUPERINTENDENT, THE PERSON RESPONSIBLE FOR THE DAY-TO-DAY SITE OPERATION OR SOMEONE APPOINTED BY THE SUPERINTENDENT, AT LEAST ONCE A WEEK AND WITHIN 24 HOURS OF THE END OF ANY STORM EVENT OF 1/2" OR GREATER.</p> <p>ALL TURBIDITY CONTROL MEASURES WILL BE MAINTAINED IN GOOD WORKING ORDER; IF A REPAIR IS NECESSARY, IT WILL BE INITIATED WITHIN 24 HOURS OF REPORT.</p> <p>BUILT UP SEDIMENT WILL BE REMOVED FROM SILT FENCE WHEN IT HAS REACHED ONE-THIRD THE HEIGHT OF THE FENCE.</p> <p>SILT FENCE WILL BE INSPECTED FOR DEPTH OF SEDIMENT, TEARS, TO SEE IF THE FABRIC IS SECURELY ATTACHED TO THE FENCE POSTS, AND TO SEE THAT THE FENCE POSTS ARE FIRMLY IN THE GROUND.</p> <p>CONSTRUCTION ENTRANCES WILL BE INSPECTED FOR DEPTH OF CRUSHED STONE BED AND FILTER FABRIC CONDITION. THE BED SHALL HAVE A 6" THICKNESS AND THE FILTER FABRIC SHALL BE FREE OF TEARS AND FIRMLY SECURE. ENTRANCES SHALL BE REMOVED PRIOR TO CONSTRUCTION OF DRIVEWAYS.</p> <p>THE SEDIMENT BASINS WILL BE INSPECTED FOR DEPTH OF SEDIMENT, AND BUILT UP SEDIMENT WILL BE REMOVED WHEN IT REACHES 10 PERCENT OF THE DESIGN CAPACITY OR AT THE END OF THE JOB.</p> <p>DIVERSION DIKES/SWALES WILL BE INSPECTED AND ANY BREACHES PROMPTLY REPAIRED.</p> <p>TEMPORARY AND PERMANENT SEEDING AND PLANTING WILL BE INSPECTED FOR BARE SPOTS, WASHOUTS, AND HEALTHY GROWTH.</p> <p>A MAINTENANCE INSPECTION REPORT WILL BE MADE AFTER EACH INSPECTION. COPY OF THE REPORT FORM TO BE COMPLETED BY THE INSPECTOR IS ATTACHED. THE REPORTS WILL BE KEPT ON SITE DURING CONSTRUCTION AND AVAILABLE UPON REQUEST TO THE OWNER, ENGINEER OR ANY FEDERAL, STATE, AND LOCAL AGENCY APPROVING SEDIMENT AND EROSION PLANS, OR STORM WATER MANAGEMENT PLANS. THE REPORTS SHALL BE MADE AND RETAINED AS PART OF THE STORM WATER POLLUTION PREVENTION PLAN FOR AT LEAST THREE YEARS FROM THE DATE THAT THE SITE IS FINALLY STABILIZED AND THE NOTICE OF TERMINATION IS SUBMITTED. THE REPORTS SHALL IDENTIFY ANY INCIDENTS OF NON-COMPLIANCE.</p> <p>THE SITE SUPERINTENDENT WILL SELECT UP TO THREE CERTIFIED INDIVIDUALS WHO WILL BE RESPONSIBLE FOR INSPECTIONS, MAINTENANCE AND REPAIR ACTIVITIES, AND FILLING OUT THE INSPECTION AND MAINTENANCE REPORT.</p> <p>PERSONNEL SELECTED FOR INSPECTION AND MAINTENANCE RESPONSIBILITIES WILL RECEIVE TRAINING FROM THE SITE SUPERINTENDENT AND MUST ENFORCE THE FDEP NPDES SWPPP FOR THIS PROJECT. THEY WILL BE TRAINED IN ALL THE INSPECTION AND MAINTENANCE PRACTICES NECESSARY FOR KEEPING THE EROSION AND SEDIMENT CONTROLS USED ONSITE IN GOOD WORKING ORDER.</p> <p>NON-STORM WATER DISCHARGES IT IS EXPECTED THAT THE FOLLOWING NON-STORM WATER DISCHARGES WILL OCCUR FROM THE SITE DURING THE CONSTRUCTION PERIOD.</p> <p>UNCONTAMINATED GROUNDWATER (FROM DEWATERING EXCAVATION).</p> <p>ALL NON-STORM WATER DISCHARGES WILL BE DIRECTED TO THE SEDIMENT BASIN OR OTHER APPROPRIATE AREA PRIOR TO DISCHARGE TO EXISTING DITCHES OR WETLANDS.</p> <p>CONTRACTORS CERTIFICATION I CERTIFY UNDER PENALTY OF LAW THAT I UNDERSTAND THE TERMS AND CONDITIONS OF THE GENERAL NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) PERMIT THAT AUTHORIZES THE STORM WATER DISCHARGES ASSOCIATED WITH CONSTRUCTION ACTIVITY FROM THE SITE IDENTIFIED AS PART OF THIS CERTIFICATION.</p> <p>SIGNATURE: _____ BUSINESS NAME & ADDRESS OF CONTRACTOR, ALL SUBS: _____ RESPONSIBLE FOR/DUTIES GENERAL CONTRACTOR: _____ SUBCONTRACTOR: _____</p>
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DESIGNED	A GOODDEN
DRAWN	D HAUBRICH
CHECKED	R KOLLER
DATE	
REVISED PER	COWM
LTR	DATE

JonesEdmunds
CERTIFICATE OF AUTHORIZATION #1841
730 NE WALDO ROAD, GAINESVILLE, FLORIDA 32641 / (352) 377-5821
8657 BAYPINE ROAD SUITE 300, JACKSONVILLE, FL 32256 / (904) 744-5401

CRANE CREEK M-1 CANAL FLOW RESTORATION
ST. JOHN'S RIVER WATER MANAGEMENT DISTRICT

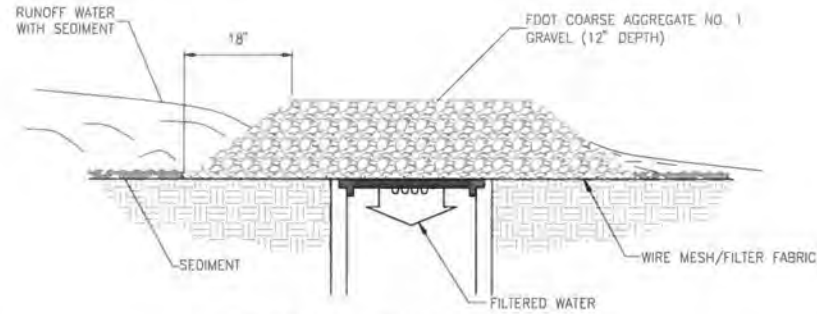
STORMWATER POLLUTION PREVENTION
NOTES

CERTIFICATE OF AUTHORIZATION #1841 APPROVED BY	PROJECT NO: 19750-066-01	DATE: DEC 2019
A. GOODDEN P.E. # 60097	INDEX NO:	DWG NO: EC4-2

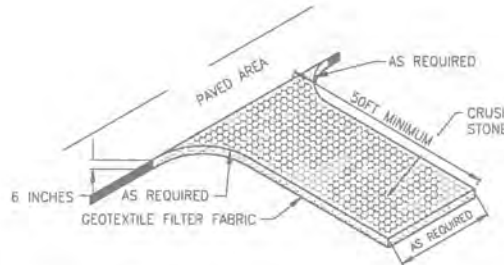
PLOTTED: 1/24/2020 08:55 AM DEAN HAUBRICH

SEDIMENT AND EROSION CONTROL NOTES

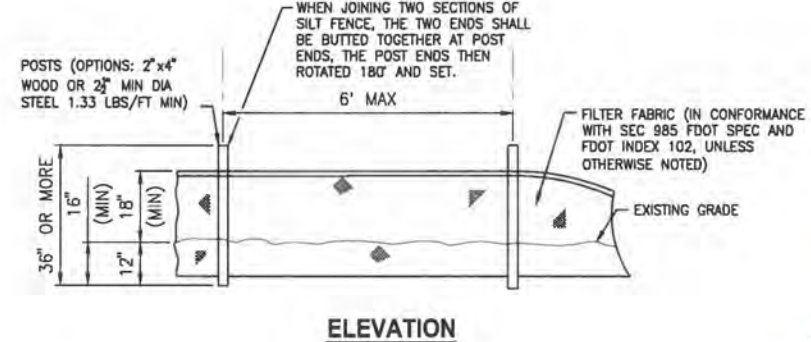
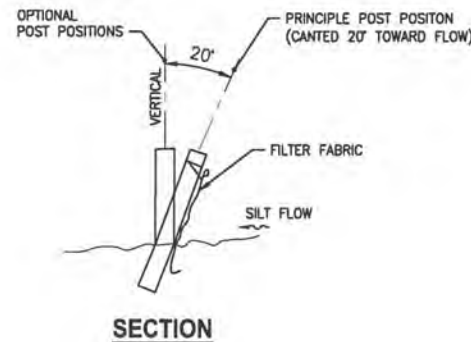
1. THE SITE CONTRACTOR IS RESPONSIBLE FOR REMOVING THE TEMPORARY EROSION AND SEDIMENT CONTROL DEVICES AFTER COMPLETION OF CONSTRUCTION AND ONLY WHEN AREAS HAVE BEEN STABILIZED.
2. BEST MANAGEMENT PRACTICES IN ADDITION TO THE ONES SHOWN ON THE PLAN SHEETS MUST BE PROVIDED IN ORDER TO PREVENT SILT FROM LEAVING THE PROJECT SITE DUE TO UNSEEN CONDITIONS AND ACCIDENTS.
3. CONTRACTOR SHALL INSURE THAT ALL DRAINAGE STRUCTURES, PIPES, ETC. ARE CLEANED OUT AND WORKING PROPERLY AT TIME OF ACCEPTANCE.
4. WIRE MESH SHALL BE LAID OVER THE DROP INLET SO THAT THE WIRE EXTENDS A MINIMUM OF 12" BEYOND EACH SIDE OF THE INLET STRUCTURE. HARDWARE CLOTH OR COMPARABLE WIRE MESH WITH 3/8" OPENINGS SHALL BE USED. IF MORE THAN ONE STRIP OF MESH IS NECESSARY, THE STRIPS SHALL BE OVERLAPPED.
5. FDOT NO.1 COARSE AGGREGATE SHALL BE PLACED OVER THE WIRE MESH AS INDICATED ON SEDIMENT FILTER DETAIL (SEE DETAIL THIS SHEET). THE DEPTH OF STONE SHALL BE AT LEAST 12" OVER THE ENTIRE INLET OPENING. THE STONE SHALL EXTEND BEYOND THE INLET OPENING AT LEAST 18" ON ALL SIDES.
6. IF THE STONE FILTER BECOMES CLOGGED WITH SEDIMENT SO THAT IT NO LONGER ADEQUATELY PERFORMS ITS FUNCTION, THE STONES MUST BE PULLED AWAY FROM THE INLET, CLEANED AND REPLACED.
7. THE FILTER BARRIER SHALL BE ENTRENCHED AND BACKFILLED. A TRENCH SHALL BE EXCAVATED TO A MINIMUM DEPTH OF 4". THE EXCAVATED SOIL SHALL BE BACKFILLED AND COMPACTED AGAINST THE FILTER BARRIER.
8. NECESSARY REPAIRS TO BARRIERS SHALL BE ACCOMPLISHED PROMPTLY.
9. ANY SEDIMENT DEPOSITS REMAINING IN PLACE, AFTER THE FILTER BARRIERS, AND OR SILT FENCES ARE NO LONGER REQUIRED, SHALL BE DRESSED TO CONFORM TO THE EXISTING GRADE, PREPARED AND SEEDED.
10. SHOULD THE FABRIC ON A SILT FENCE OR FILTER BARRIER DECOMPOSE OR SHOULD BECOME INEFFECTIVE PRIOR TO THE END OF THE EXPECTED USABLE LIFE AND THE BARRIER STILL BE NECESSARY, THE FABRIC SHALL BE REPLACED IMMEDIATELY.
11. THE STRUCTURE SHALL BE INSPECTED AFTER EACH RAIN AND REPAIRS MADE AS NEEDED.
12. THE CONTRACTOR SHALL MAINTAIN A CLEAR PATH FOR ALL SURFACE WATER DRAINAGE STRUCTURES AND SWALES AS WELL AS PROVIDE MEASURES TO PREVENT SILTATION OF STORMWATER TREATMENT SYSTEMS AND CONTROL STRUCTURES DURING ALL PHASES OF CONSTRUCTION. THE CONTRACTOR SHALL MANAGE STORMWATER SUCH THAT IMPACT TO CONSTRUCTION IS MINIMIZED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL WORK, INCLUDING PROVIDING EQUIPMENT, LABOR, FILL, ETC. NECESSARY TO REMEDIATE AND/OR RESTORE ALL AREAS IMPACTED BY EROSION, RUNOFF, AND STORMWATER.
13. FOR ADDITIONAL INFORMATION ON SEDIMENT AND EROSION CONTROL REFER TO "EROSION AND SEDIMENT CONTROL DESIGNER AND REVIEWER MANUAL" AVAILABLE AT [HTTP://WWW.FDOT.GOV/ROADWAY/DRAINAGE/FILES/EROSION-SEDIMENT-CONTROL.PDF](http://www.fdot.gov/roadway/drainage/files/erosion-sediment-control.pdf) AND "FLORIDA STORMWATER EROSION AND SEDIMENTATION CONTROL INSPECTOR'S MANUAL" AVAILABLE AT [HTTPS://WWW.DEP.STATE.FL.US/WATER/NONPOINT/DOCS/EROSION/EROSION-INSPECTORS-MANUAL.PDF](https://www.dep.state.fl.us/water/nonpoint/docs/erosion/erosion-inspectors-manual.pdf).
14. EROSION AND SEDIMENT CONTROL BARRIERS SHALL BE PLACED ADJACENT TO ALL DOWNSTREAM AREAS WHERE THERE IS POTENTIAL FOR DOWNSTREAM WATER QUALITY DEGRADATION. SEE DETAILS (THIS SHEET) FOR TYPICAL CONSTRUCTION.
15. SOD SHALL BE PLACED IN AREAS WHICH REQUIRE IMMEDIATE EROSION PROTECTION TO ENSURE WATER QUALITIES ARE MAINTAINED.
16. ANY DISCHARGE FROM DEWATERING ACTIVITY SHALL BE FILTERED AND CONVEYED TO THE M-1 CANAL IN A MANNER WHICH PREVENTS EROSION AND TRANSPORTATION OF SUSPENDED SOLIDS IN THE M-1 CANAL.
17. ALL DEWATERING, EROSION, AND SEDIMENT CONTROL SHALL REMAIN IN PLACE UNTIL AFTER COMPLETION OF CONSTRUCTION, AND REMOVED ONLY WHEN AREAS HAVE BEEN STABILIZED.
18. THIS PLAN INDICATES THE MINIMUM EROSION AND SEDIMENT MEASURES REQUIRED FOR THIS PROJECT. THE CONTRACTOR IS RESPONSIBLE FOR MEETING ALL APPLICABLE RULES, REGULATIONS AND WATER QUALITY GUIDELINES AND MAY NEED TO INSTALL ADDITIONAL CONTROLS.
19. THE CONTRACTOR SHALL BE REQUIRED TO RESPOND TO ALL WATER MANAGEMENT DISTRICT INQUIRES, RELATIVE TO COMPLIANCE OF NFWMD AND FDEP FOR EROSION AND SEDIMENTATION CONTROL. THE COST OF THIS COMPLIANCE SHALL BE PART OF THE CONTRACT.
20. THE CONTRACTOR IS RESPONSIBLE FOR FOLLOWING THE BEST EROSION AND SEDIMENT CONTROL PRACTICES AS OUTLINED IN THE PLANS AND SPECIFICATIONS AND THE SJRWMD AND FDEP RULES AND REGULATIONS.



GRAVEL AND WIRE MESH DROP INLET SEDIMENT FILTER DETAIL (Sd2)
NTS



STABILIZED CONSTRUCTION ENTRANCE (Co)
NTS



TYPICAL SILT FENCE (Sd1)
NTS

STORMWATER POLLUTION PREVENTION PLAN

INSPECTIONS MUST OCCUR AT LEAST ONCE A WEEK AND WITHIN 24 HOURS OF THE END OF A STORM EVENT THAT IS 0.50 INCHES OR GREATER

INSPECTOR: _____ FDEP NPDES STORMWATER IDENTIFICATION NUMBER: _____

LOCATION	RAIN DATA	TYPE OF CONTROL (SEE BELOW)	DATE INSTALLED / MODIFIED	CURRENT CONDITION (SEE BELOW)	CORRECTIVE ACTION / OTHER REMARKS

CONDITION CODE:
 G = GOOD
 C = NEEDS TO BE CLEARED
 M = MARGINAL, NEEDS MAINTENANCE OR REPLACEMENT SOON
 P = POOR, NEEDS IMMEDIATE MAINTENANCE OR REPLACEMENT
 O = OTHER

CONTROL TYPE CODES			
1. SILT FENCE	10. STORM DRAIN INLET PROTECTION	19. REINFORCED SOIL RETAINING SYSTEM	28. TREE PROTECTION
2. EARTH DIKES	11. VEGETATIVE BUFFER STRIP	20. GABION	29. DETENTION POND
3. STRUCTURAL DIVISION	12. VEGETATIVE PRESERVATION AREA	21. SEDIMENT BASIN	30. RETENTION POND
4. SWALE	13. RETENTION POND	22. TEMPORARY SEED / SOO	31. WASTE DISPOSAL / HOUSEKEEPING
5. SEDIMENT TRAP	14. CONSTRUCTION ENTRANCE STABILIZATION	23. PERMANENT SEED / SOO	32. DAM
6. CHECK DAM	15. PERIMETER DITCH	24. MULCH	33. SAND BAG
7. PIPE SLOPE DRAIN	16. CURB AND GUTTER	25. WATLES	34. OTHER
8. LEVEL SPREADERS	17. PAVED ROAD SURFACE	26. GEOTEXTILE	
9. LEVEL SPREADERS	18. ROCK OUTLET PROTECTION	27. RIP-RAP	

INSPECTOR INFORMATION:

NAME: _____ QUALIFICATION: _____ DATE: _____

THE ABOVE SIGNATURE ALSO SHALL CERTIFY THAT THIS FACILITY IS IN COMPLIANCE WITH THE STORMWATER POLLUTION PREVENTION PLAN AND THE STATE OF FLORIDA GENERAL PERMIT FOR STORMWATER DISCHARGE FROM LARGE AND SMALL CONSTRUCTION ACTIVITIES IF THERE ARE NOT ANY INCIDENTS OF NON-COMPLIANCE IDENTIFIED ABOVE.

*I CERTIFY UNDER PENALTY OF LAW THAT THIS DOCUMENT AND ALL ATTACHMENTS WERE PREPARED UNDER MY DIRECTION OR SUPERVISION IN ACCORDANCE WITH A SYSTEM DESIGNED TO ASSURE THAT QUALIFIED PERSONNEL PROPERLY GATHERED AND EVALUATED THE INFORMATION SUBMITTED. BASED ON MY INQUIRY OF THE PERSON OR PERSONS WHO MANAGE THE SYSTEM, OR THOSE PERSONS DIRECTLY RESPONSIBLE FOR GATHERING THE INFORMATION, THE INFORMATION SUBMITTED IS, TO THE BEST OF MY KNOWLEDGE AND BELIEF, TRUE, ACCURATE, AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT FOR KNOWING VIOLATIONS.

NAME (RESPONSIBLE AUTHORITY) _____ DATE _____

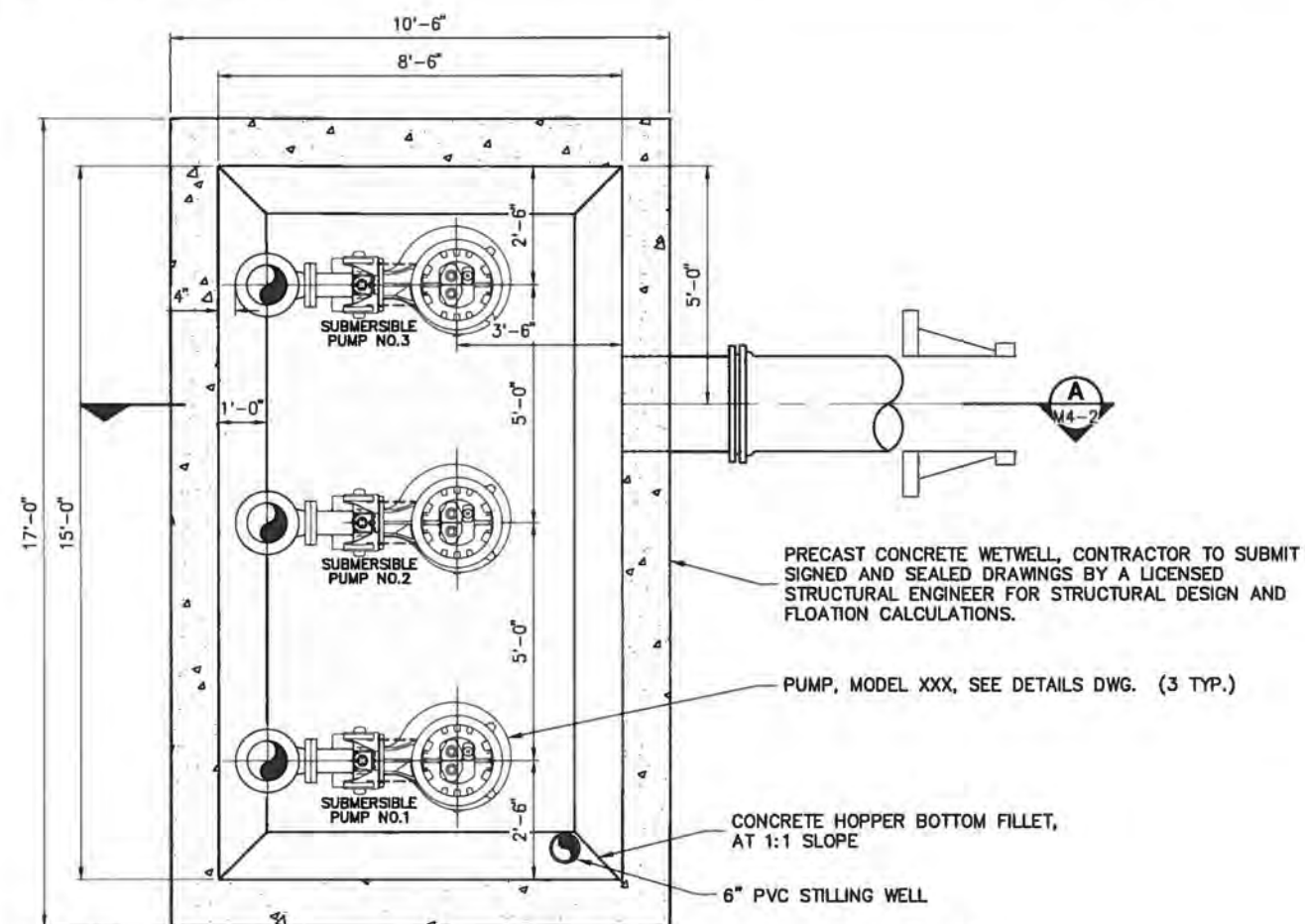


Y:\19750-SJRWMD\PROJECTS\066-01-CRANE CREEK_M-1_FLOW_RESTORATION_DESIGN\CAD\DWGS\ENV\EC4-3.DWG
 A
 B
 C
 D
 E
 F

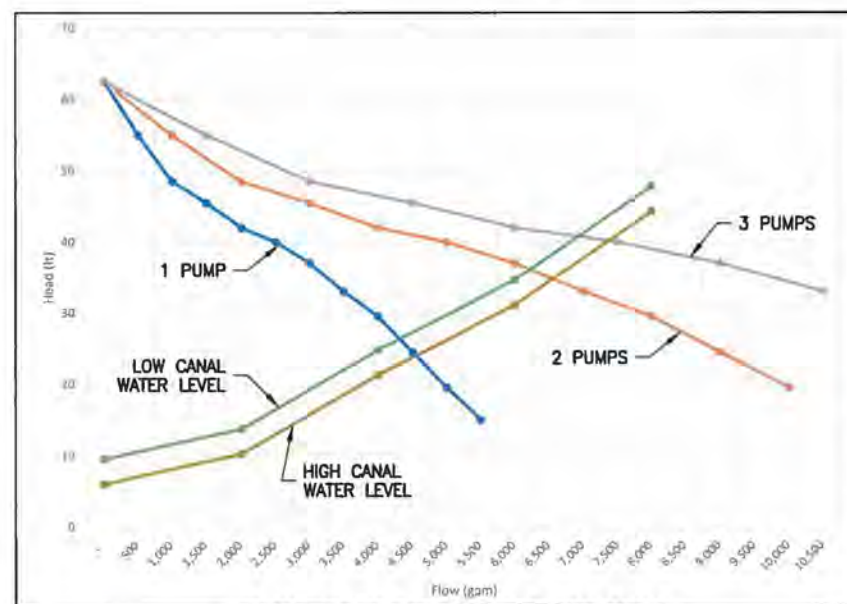
NOT FOR CONSTRUCTION

DESIGNED: A GOODDEN	<p>CERTIFICATE OF AUTHORIZATION #1841 730 NE WALDO ROAD, GAINESVILLE, FLORIDA 32641 / (352) 377-5821 8657 BAYPINE ROAD SUITE 300, JACKSONVILLE, FL 32256 / (904) 744-5401</p>	CRANE CREEK M-1 CANAL FLOW RESTORATION ST. JOHN'S RIVER WATER MANAGEMENT DISTRICT	EROSION CONTROL NOTES AND DETAILS	CERTIFICATE OF AUTHORIZATION #1841	PROJECT NO:	DATE:
DRAWN: D HAUBRICH				APPROVED BY:	19750-066-01	DEC 2019
CHECKED: R KOLLER				A. GOODDEN	INDEX NO:	DWG NO:
LTR. DATE REVISIONS BY APPRD.				P.E. # 60097		EC4-3

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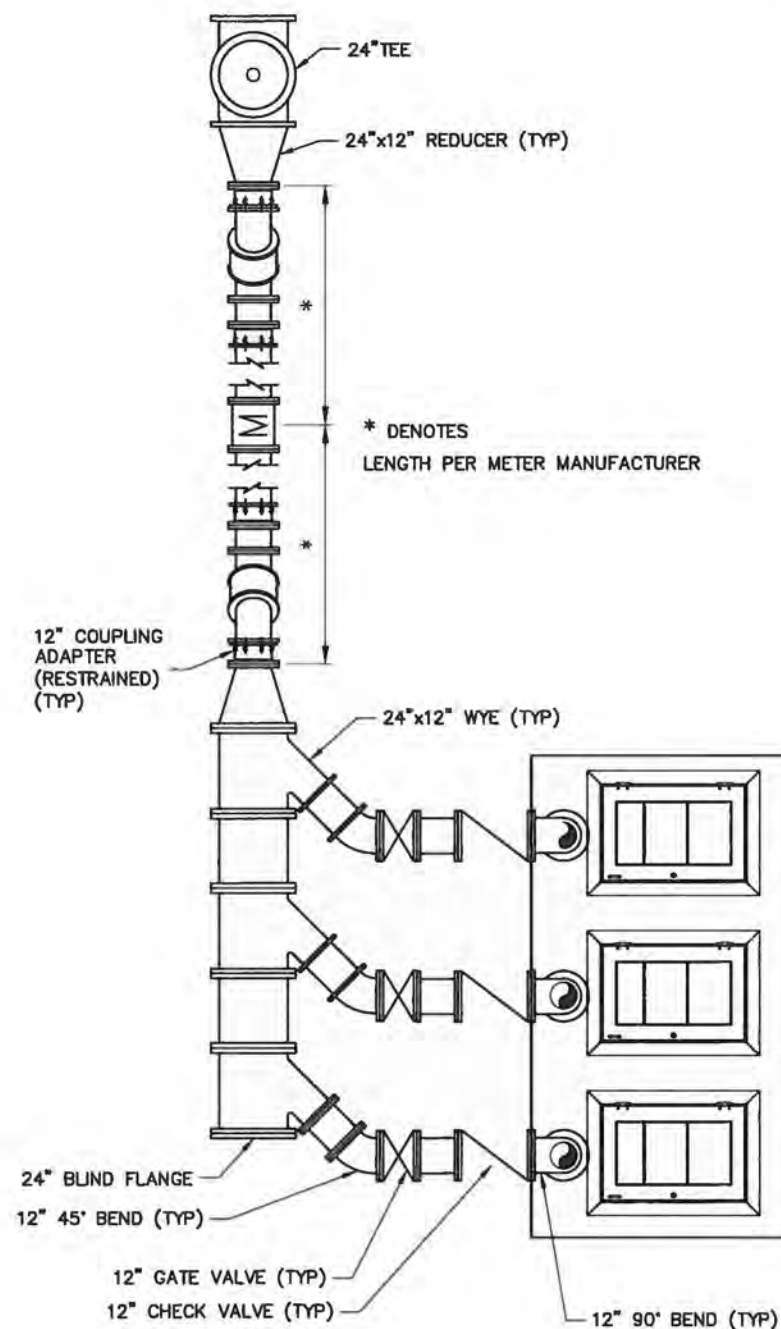


LOWER PLAN 1

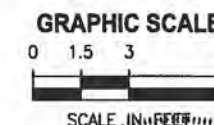


PUMP AND SYSTEM CURVES

BASIS OF DESIGN
HYDROMATIC S12LXP
12.38 IN. IMPELLER
40 HP



UPPER PLAN 1



NOT FOR CONSTRUCTION

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DESIGNED	D. YOUNG			
DRAWN	D. HAUBRICH			
CHECKED	R. KOLLER			
LTR.	DATE	REVISIONS	BY	APPRD.

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 8657 BAYPINE ROAD SUITE 300, JACKSONVILLE, FL 32256 / (904) 744-5401

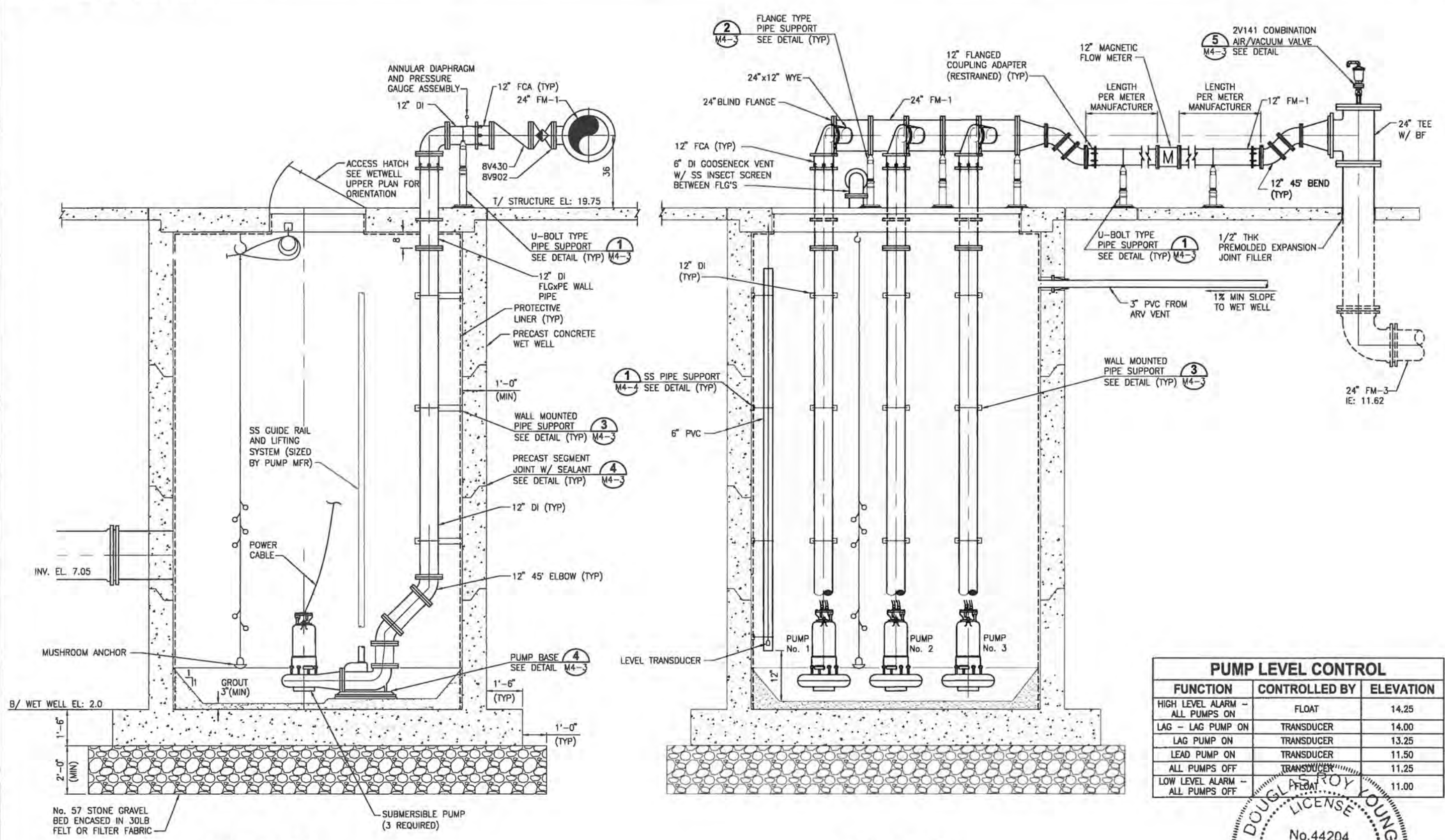
CRANE CREEK M-1 CANAL FLOW RESTORATION
ST. JOHN'S RIVER WATER MANAGEMENT DISTRICT

PUMP STATION PLAN

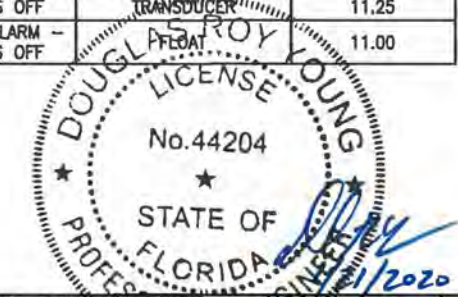
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APPROVED BY	19750-066-01	DEC 2019
D. YOUNG	INDEX NO:	DWG NO:
P.E. # 44204		M4-1

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 11/15/2019 4:10 PM JKRAMER



PUMP LEVEL CONTROL		
FUNCTION	CONTROLLED BY	ELEVATION
HIGH LEVEL ALARM - ALL PUMPS ON	FLOAT	14.25
LAG - LAG PUMP ON	TRANSDUCER	14.00
LAG PUMP ON	TRANSDUCER	13.25
LEAD PUMP ON	TRANSDUCER	11.50
ALL PUMPS OFF	TRANSDUCER	11.25
LOW LEVEL ALARM - ALL PUMPS OFF	FLOAT	11.00



SECTION A
N.T.S.

SECTION B
N.T.S.

NOT FOR CONSTRUCTION

DATE	REVISIONS	BY	APPROV.

DESIGNED D. YOUNG
 DRAWN D. HAUBRICH
 CHECKED R. KOLLER

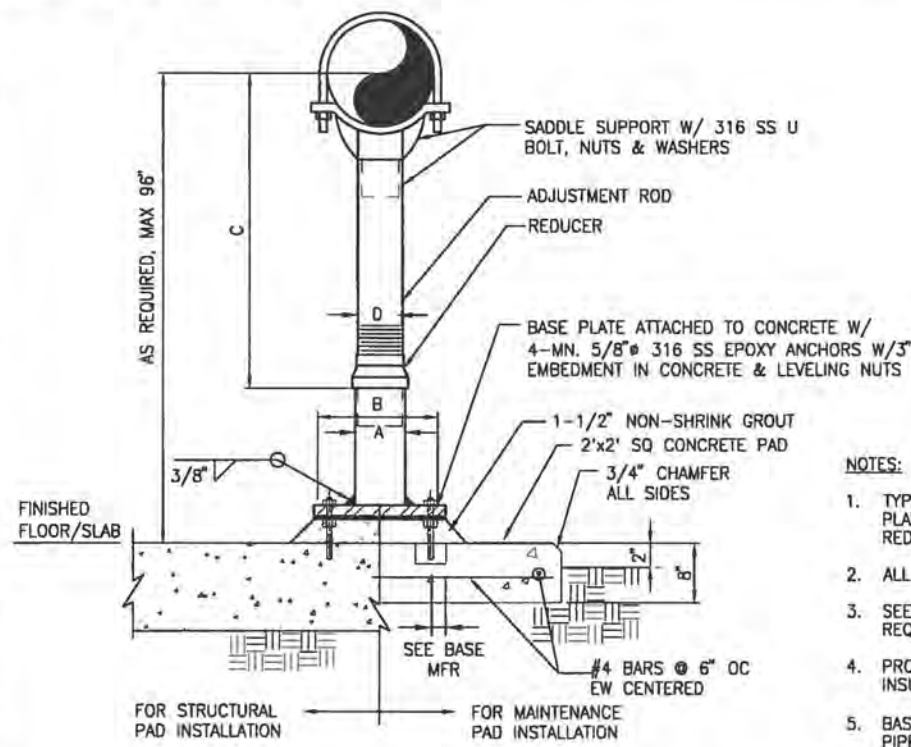
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CRANE CREEK M-1 CANAL FLOW RESTORATION
ST. JOHN'S RIVER WATER MANAGEMENT DISTRICT

PUMP STATION SECTIONS

CERTIFICATE OF AUTHORIZATION #1841 APPROVED BY D. YOUNG P.E. # 44204	PROJECT NO: 19750-066-01	DATE: DEC 2019
INDEX NO: 44204	DWG NO: M4-2	

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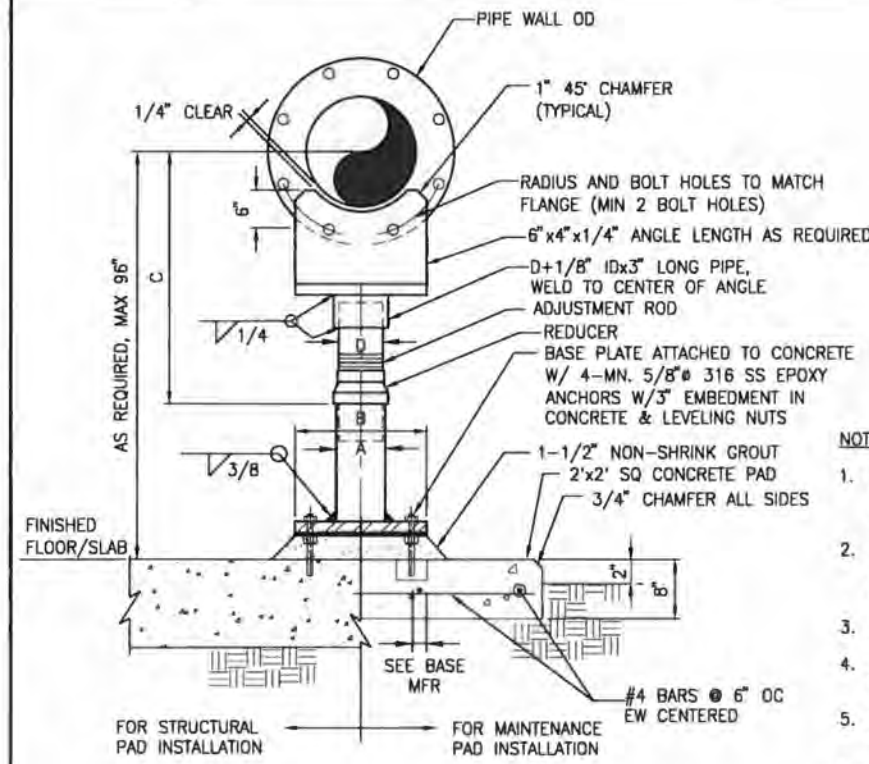
PIPE SUPPORT - U-BOLT TYPE 1
NTS

PIPE SUPPORT DIMENSION TABLE

PIPE SIZE	A	B	C		D
			MIN	MAX	
4	4	9	9 1/4	14	3
5	4	9	10	14 3/4	3
6	4	9	10 1/2	15 1/4	3
8	4	9	11 3/4	16 1/2	3
10	4	9	13 1/2	18 1/4	3
12	4	9	15	19 3/4	3
14	4	11	16 1/4	20 3/4	3
16	4	11	17 3/4	22 1/4	3
18	6	13 1/2	19 1/2	24	4
20	6	13 1/2	21	25 1/2	4
24	6	13 1/2	23 3/4	28 1/4	4

NOTES:

1. TYPE 1 PIPE SUPPORT: PIPE SADDLE, ADJUSTMENT ROD, BASE PLATE, ETC. SHALL BE HOT DIP GALVANIZED CARBON STEEL. REDUCER SHALL BE CAST IRON.
2. ALL HARDWARE SHALL BE 316 SS.
3. SEE PLANS AND SECTIONS FOR PIPE CENTERLINE ELEVATION REQUIREMENTS.
4. PROVIDE RIGID INSULATION PROTECTION SHIELD WHERE PIPING IS INSULATED.
5. BASE PLATES SHALL BE SQUARE AND BE 3/8-INCH THICK FOR PIPE SIZES THROUGH 10-INCH. FOR ALL LARGER PIPES BEING SUPPORTED, THE BASE PLATES SHALL BE 1/2-INCH THICK.



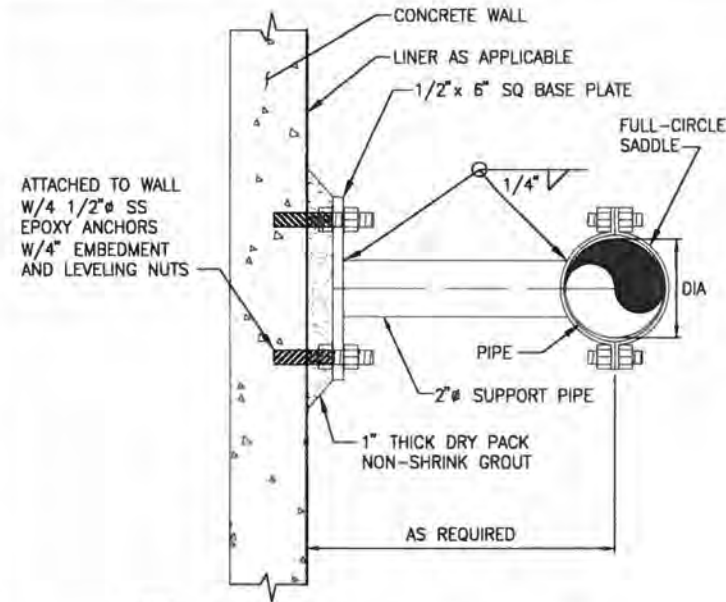
FLANGE TYPE PIPE SUPPORT DETAIL 2
NTS

PIPE SUPPORT DIMENSION TABLE

PIPE SIZE	A	B	C		D
			MIN	MAX	
4	4	9	9 1/4	14	3
5	4	9	10	14 3/4	3
6	4	9	10 1/2	15 1/4	3
8	4	9	11 3/4	16 1/2	3
10	4	9	13 1/2	18 1/4	3
12	4	9	15	19 3/4	3
14	4	11	16 1/4	20 3/4	3
16	4	11	17 3/4	22 1/4	3
18	6	13 1/2	19 1/2	24	4
20	6	13 1/2	21	25 1/2	4
24	6	13 1/2	23 3/4	28 1/4	4

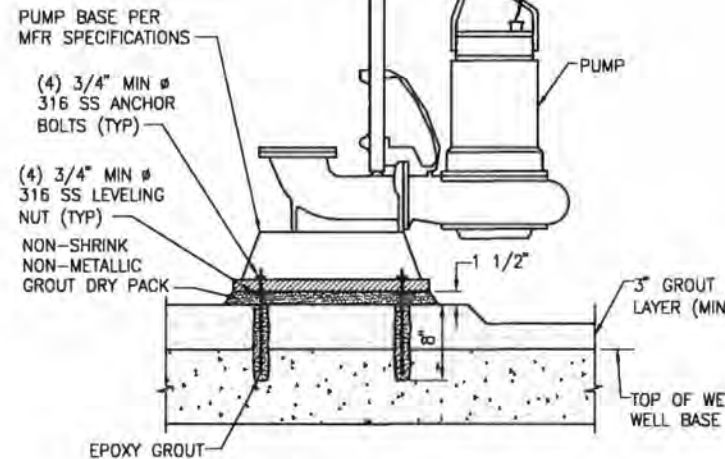
NOTES:

1. TYPE 1 PIPE SUPPORT: PLATE, PIPE SADDLE, ADJUSTMENT ROD, BASE PLATE, ETC. SHALL BE HOT DIP GALVANIZED CARBON STEEL. REDUCER SHALL BE CAST IRON.
2. HOT DIP GALVANIZE ENTIRE PIPE SUPPORT AND STEEL BASE PLATE AFTER FABRICATION (EXCEPT FOR STAINLESS STEEL FASTENING HARDWARE).
3. ALL HARDWARE SHALL BE 316 SS.
4. SEE PLANS AND SECTIONS FOR PIPE CENTERLINE ELEVATION REQUIREMENTS.
5. PROVIDE RIGID INSULATION PROTECTION SHIELD WHERE PIPING IS INSULATED.
6. BASE PLATES SHALL BE SQUARE AND BE 3/8-INCH THICK FOR PIPE SIZES THROUGH 10-INCH. FOR ALL LARGER PIPES BEING SUPPORTED, THE BASE PLATES SHALL BE 1/2-INCH THICK.



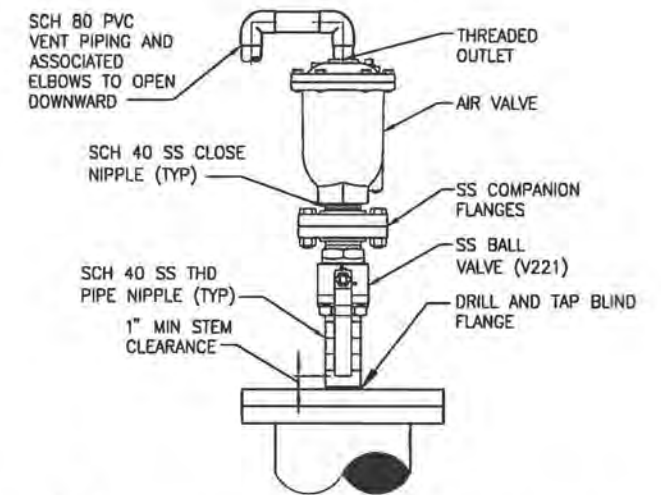
- NOTES:**
1. ALL HARDWARE, PLATE, SADDLE, PIPE SUPPORT, ETC. SHALL BE 300 SERIES SS.
 2. SUPPORT PIPE SHALL BE SCH 40.

PIPE SUPPORT - WALL MOUNTED 3
NTS



- NOTE:**
1. FORM BENCH AS DIRECTED BY PUMP MANUFACTURER.

PUMP BASE DETAIL 4
NTS



NOTES:

1. SEE DRAWINGS FOR AIR VALVE TYPE AND INLET DIAMETER.
2. BALL VALVE AND NIPPLES SHALL HAVE THE SAME DIAMETER AS THE AIR VALVE INLET.
3. VERIFY SIZE OF VALVE PRIOR TO ORDERING ANCILLARY PARTS, DRILLING OR TAPPING.
4. VENT PIPING SHALL BE DRAINED TO WET WELL AS SHOWN ON THE PLANS.

FLANGE MOUNTED AIR VALVE 5
NTS



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LTR.	DATE	REVISIONS	BY	APPRD.	CHECKED

DESIGNED D. YOUNG
DRAWN D. HAUBRICH
CHECKED R. KOLLER

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CERTIFICATE OF AUTHORIZATION #1841
730 NE WALDO ROAD, GAINESVILLE, FLORIDA 32641 / (352) 377-5821
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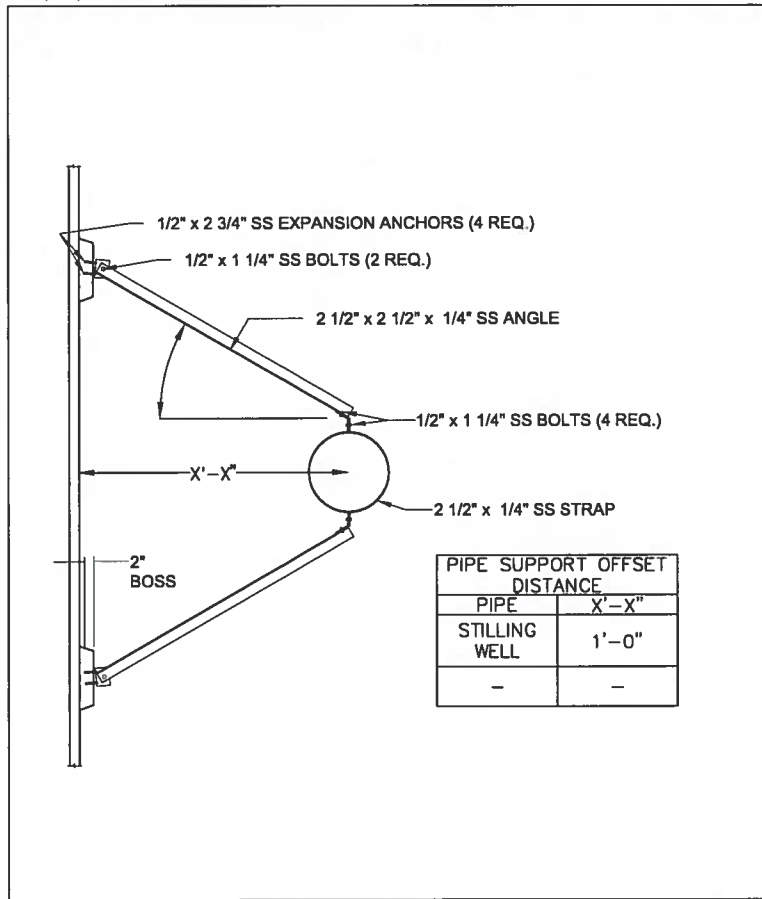
**CRANE CREEK M-1 CANAL FLOW RESTORATION
ST. JOHN'S RIVER WATER MANAGEMENT DISTRICT**

PUMP STATION DETAILS

CERTIFICATE OF AUTHORIZATION #1841 APPROVED BY D. YOUNG P.E. # 44204	PROJECT NO: 19750-066-01	DATE: DEC 2019
	INDEX NO:	DWG NO: M4-3

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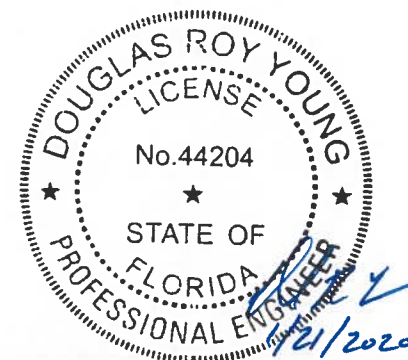


PIPE SUPPORT OFFSET DISTANCE	
PIPE	X'-X"
STILLING WELL	1'-0"
-	-

SS PIPE SUPPORT DETAIL 1
NTS

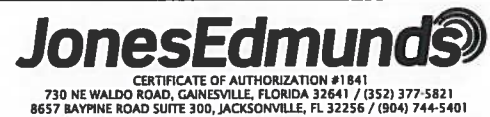
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DESIGNED D YOUNG
DRAWN D HAUBRICH
CHECKED R KOLLER



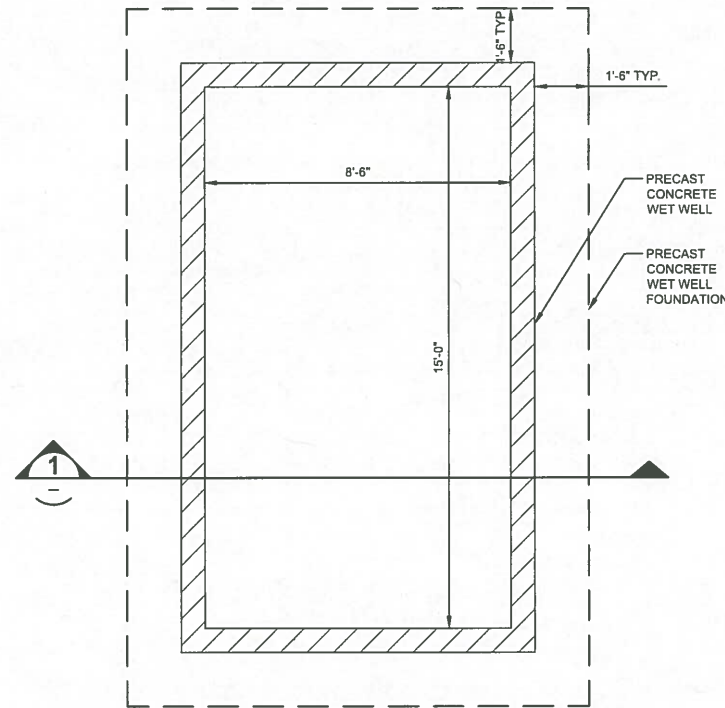
**CRANE CREEK M-1 CANAL FLOW RESTORATION
ST. JOHN'S RIVER WATER MANAGEMENT DISTRICT**

PUMP STATION DETAILS

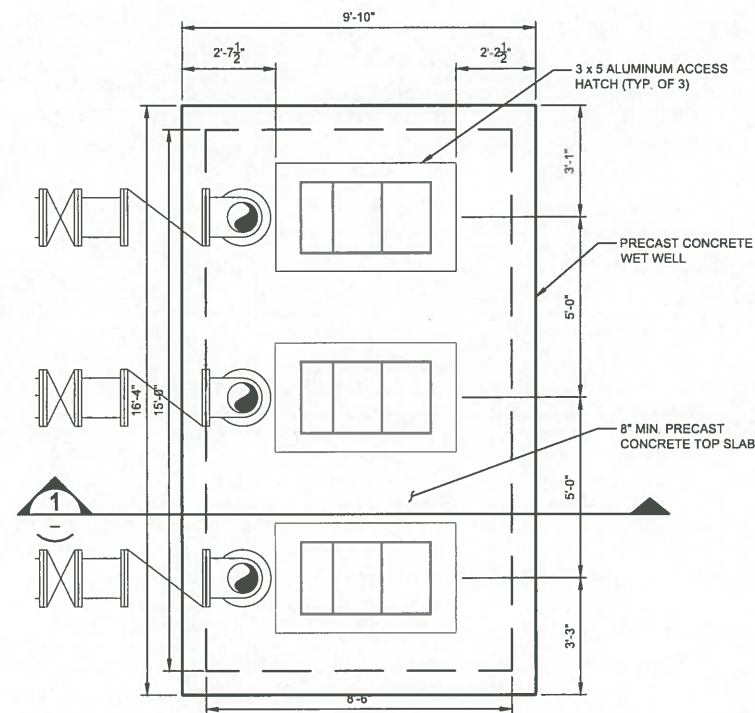
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APPROVED BY	D. YOUNG	19750-066-01	DEC 2019
P.E. # 44204		INDEX NO:	DWG NO:
			M4-4

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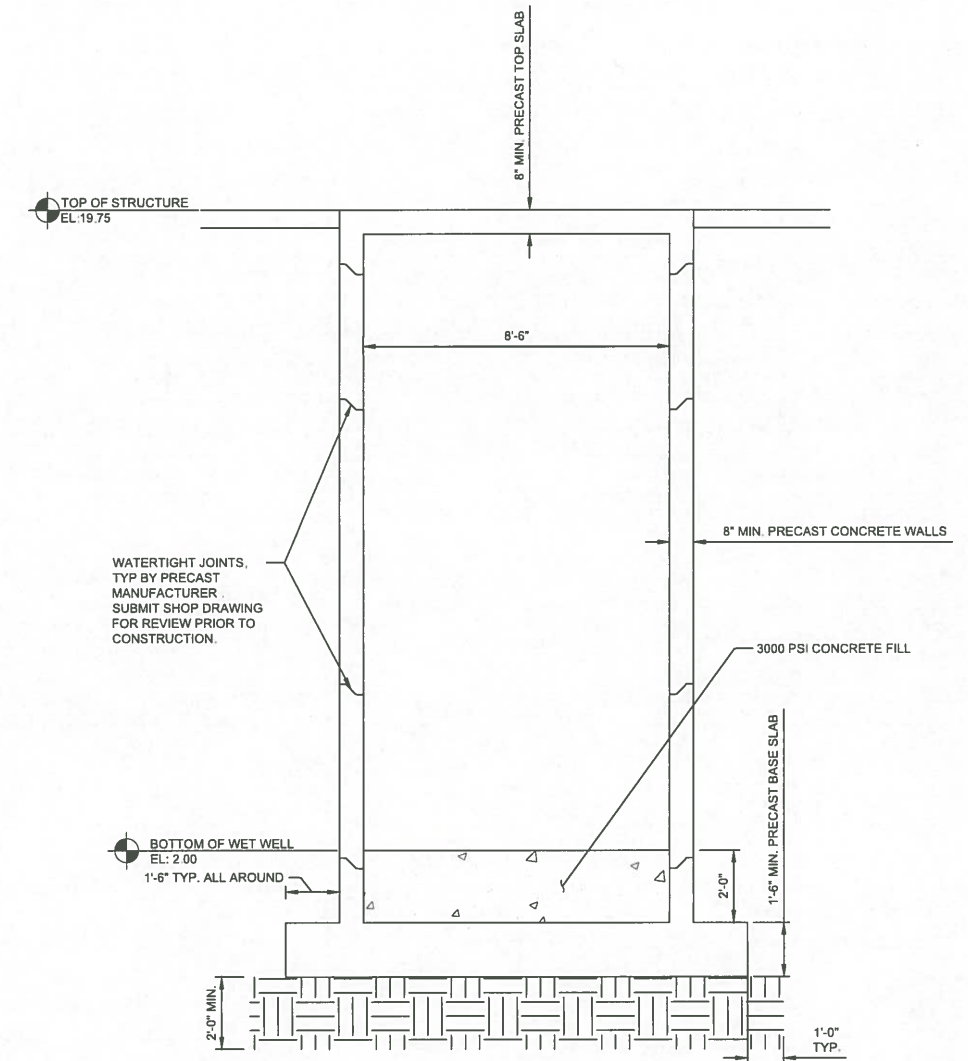
- NOTES:
- SEE SHEET 07 FOR GENERAL NOTES AND OTHER INFORMATION.
 - COORDINATE LOCATION OF ALL MECHANICAL EQUIPMENT AND PIPING WITH MECHANICAL DRAWINGS PRIOR TO CONSTRUCTION.
 - PRECAST STRUCTURE SHALL BE DESIGNED FOR A WATER TABLE AT GRADE AND A LIVE LOAD ON TOP SLAB = 200 PSF.
 - UNDER THE PRECAST SLAB ON GRADE FOUNDATION, COMPACT SUBGRADE TO A MINIMUM OF 98% OF THE MODIFIED PROCTOR MAXIMUM DRY DENSITY (ASTM D1557) FOR A DEPTH OF 2 FEET. COMPACT MINIMUM LIFTS OF 1 FOOT.



PUMP STATION BASE PLAN (A)
 $\frac{3}{8}'' = 1'-0''$
 S4-1



PUMP STATION TOP PLAN (B)
 $\frac{3}{8}'' = 1'-0''$
 S4-1



SECTION 1 (S4-1)
 $\frac{3}{8}'' = 1'-0''$

SAVED: 11/15/2019 11:21 AM JOLOVO Q:\PROJECTS\13972 M-1 CANAL RESTORATION\13972 ACAD\STRUCTURAL PLAN.DWG

MONRAD R. TRUE
 LICENSE # 32077
 GSE
 Engineering & Consulting, Inc.
 GSE PROJECT #13972
 5590 SW 64th Street, Suite B
 Gainesville, Florida 32608
 Certificate of Authorization #27432
 MONRAD R. TRUE P.E. #5807
 11/27/2020



LTR.	DATE	REVISIONS	BY	APPRD.	CHECKED

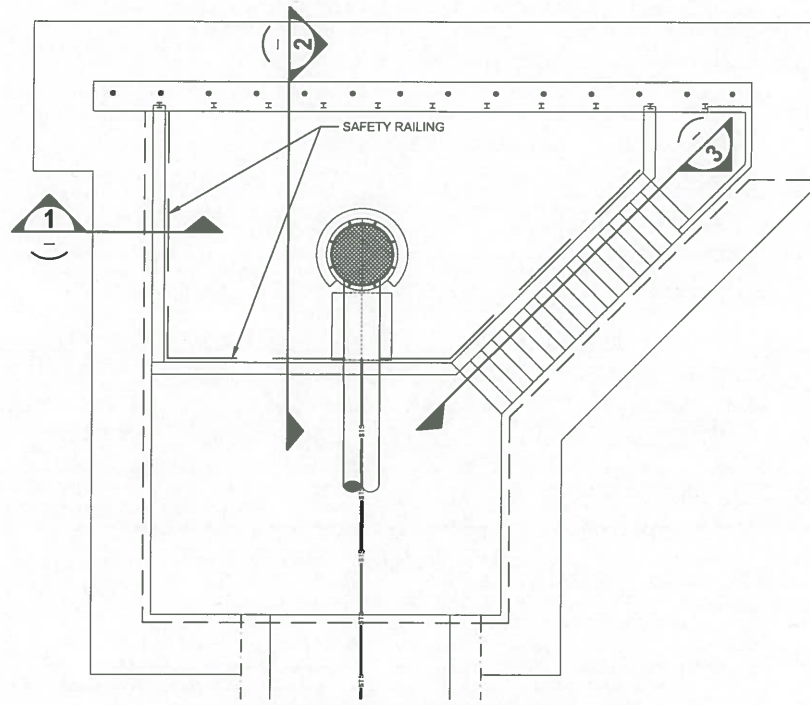
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 8657 BAYPINE ROAD SUITE 300, JACKSONVILLE, FL 32256 / (904) 744-5401

CRANE CREEK M-1 CANAL FLOW RESTORATION
ST. JOHN'S RIVER WATER MANAGEMENT DISTRICT

PUMP STATION PLAN

PROJECT NO: 19750-066-01	DATE: OCT 2019
INDEX NO:	DWG NO: S4-1

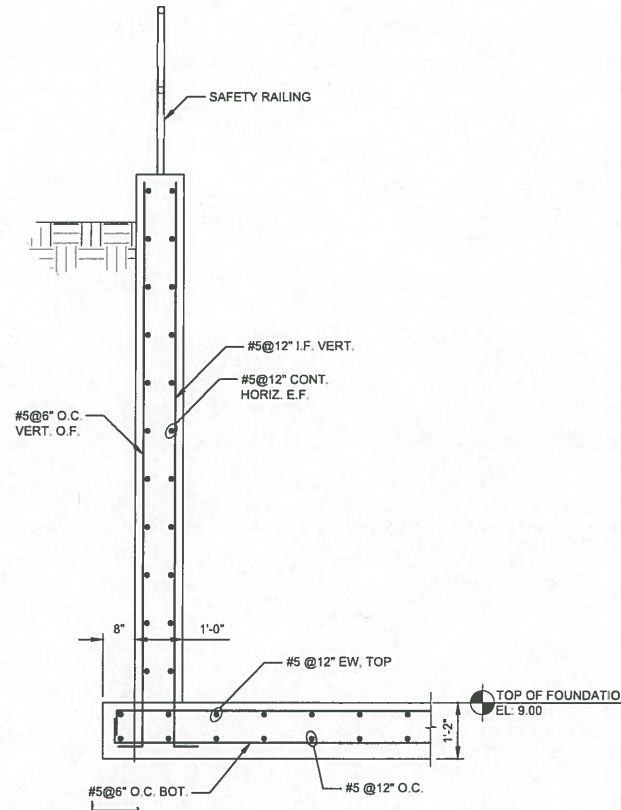
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PUMP INTAKE TOP PLAN

1/2" = 1'-0"

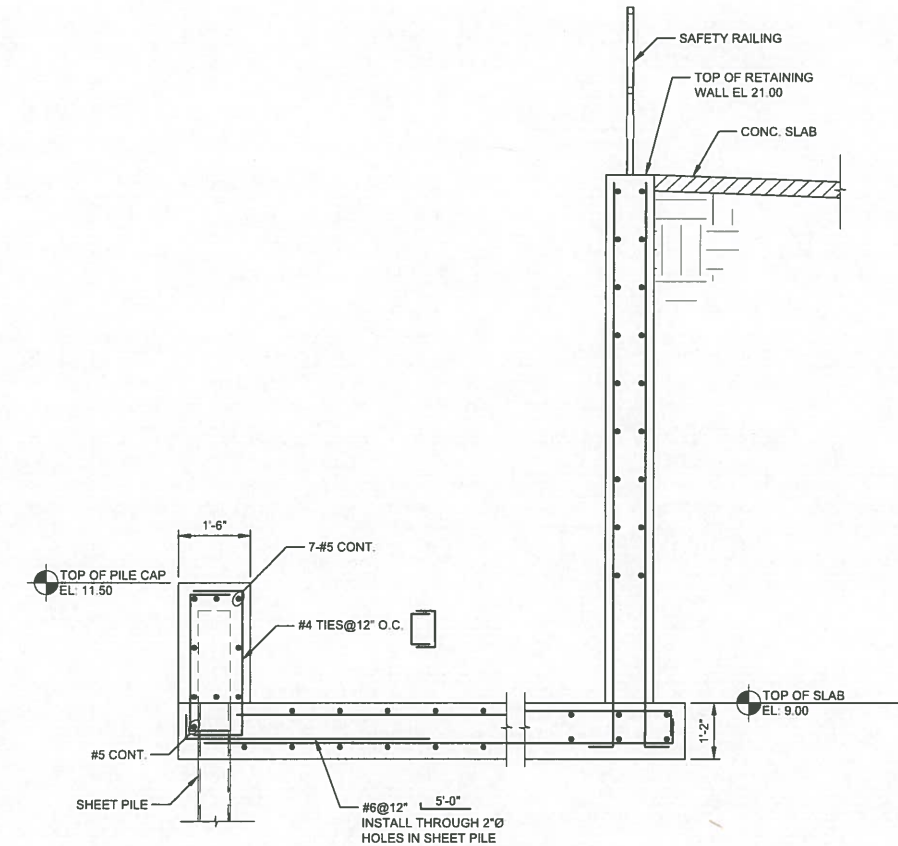
A
S4-2



SECTION 1

1/2" = 1'-0"

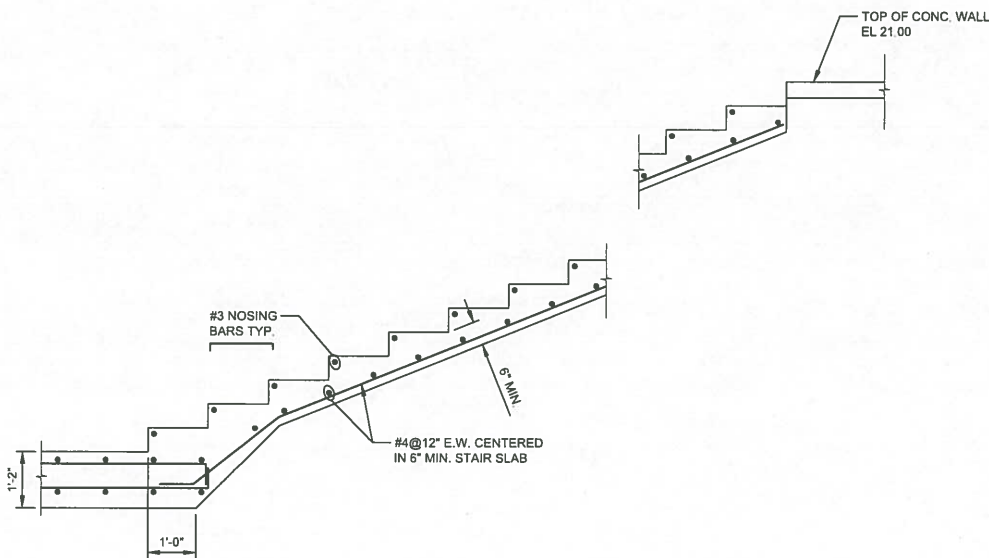
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S4-2



SECTION 2

1/2" = 1'-0"

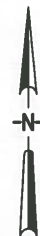
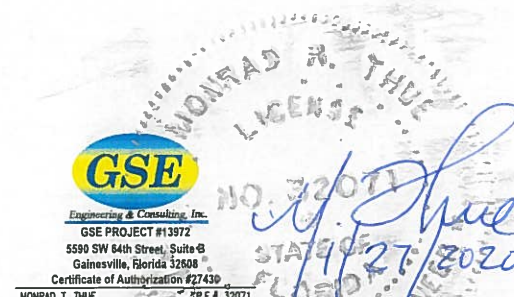
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S4-2



SECTION 3

1/2" = 1'-0"

3
S4-2



SAVED: 11/15/2019 11:21 AM JLOVO Q:\PROJECTS\13972 M-1 CANAL RESTORATION\13972 ACAD\STRUCTURAL PLAN.DWG

LTR.	DATE	REVISIONS	BY	APPRD.	CHECKED

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 CERTIFICATE OF AUTHORIZATION #1841
 730 NE WALDO ROAD, GAINESVILLE, FLORIDA 32641 / (352) 377-5821
 8657 BAYPINE ROAD SUITE 300, JACKSONVILLE, FL 32256 / (904) 744-5401

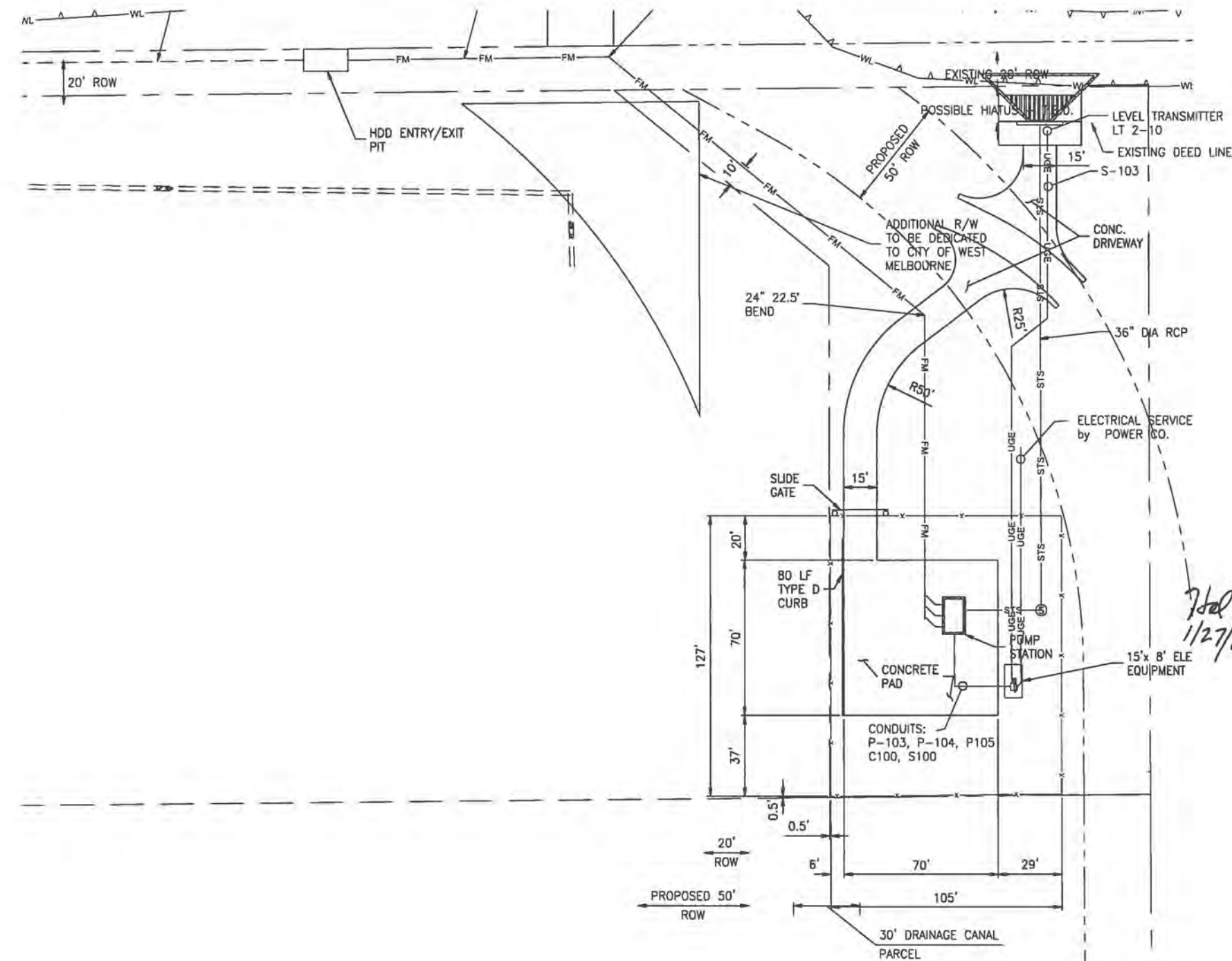
**CRANE CREEK M-1 CANAL FLOW RESTORATION
 ST. JOHN'S RIVER WATER MANAGEMENT DISTRICT**

SECTIONS AND DETAILS

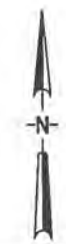
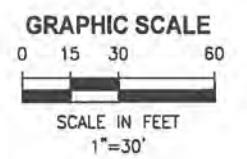
PROJECT NO:	DATE:
19750-066-01	OCT 2019
INDEX NO:	DWG NO:
	S4-2

PLOTTED: 11/15/2019 12:04 PM HAL DIETRICK

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Hal T. Dietrick
1/27/2020



11/14/2019 11:38 PM HAL D:\3. EPC PROJECTS\19750-066-01 CRANE CREEK M-1 CANAL - STANDARD\ELEC\LATEST CAD FILES - REVISED 11-14-19\E2.DWG

DESIGNED	HAL DIETRICK			
DRAWN	HAL DIETRICK			
CHECKED	MICHAEL CLARK			
LTR.	DATE	REVISIONS	BY	APPRD.

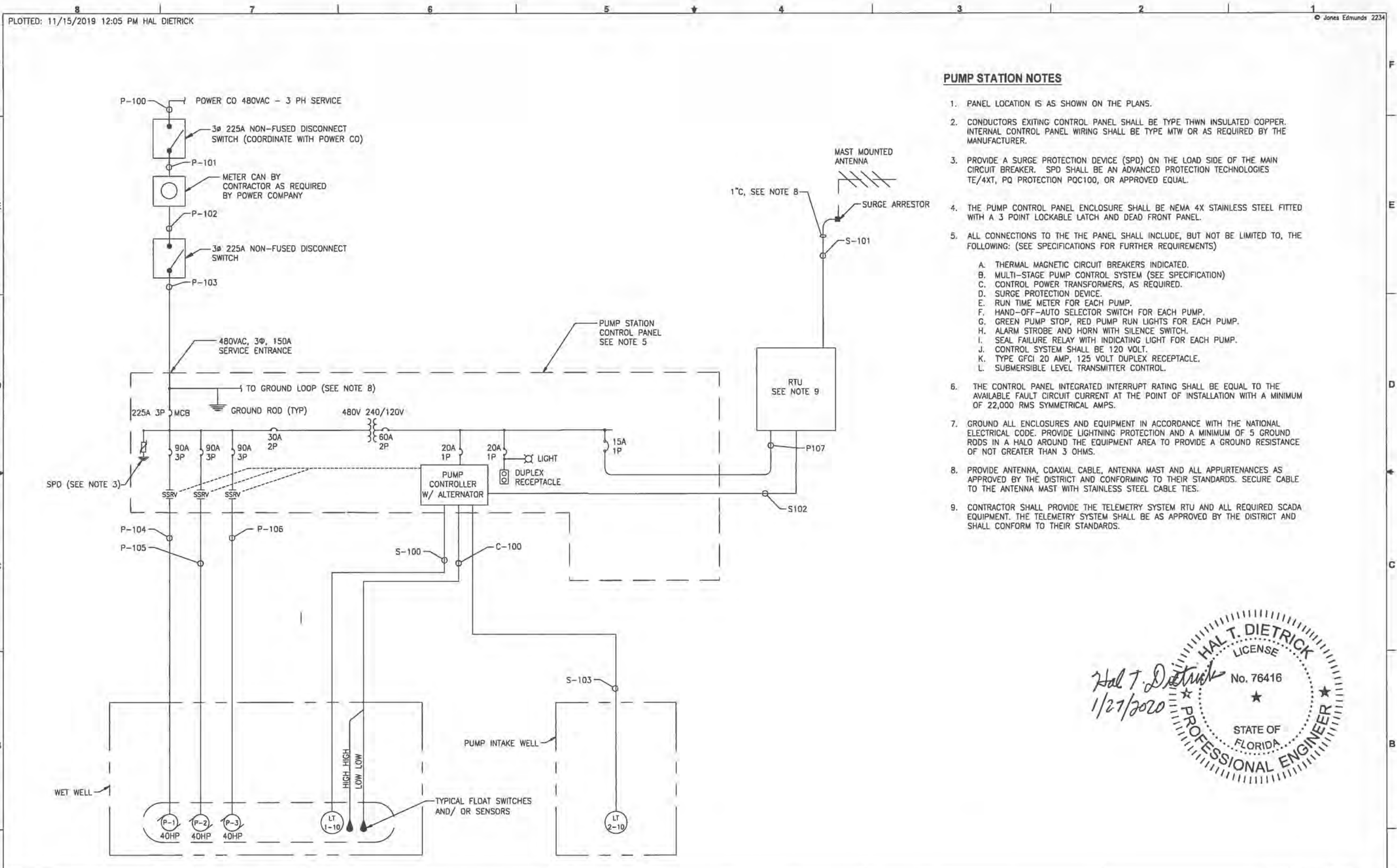
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 CERTIFICATE OF AUTHORIZATION #1841
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CRANE CREEK M-1 CANAL FLOW RESTORATION
 ST. JOHN'S RIVER WATER MANAGEMENT DISTRICT

PUMP STATION ELECTRICAL SITE PLAN

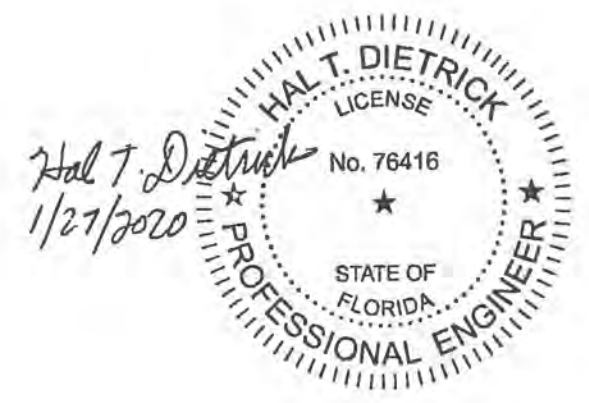
APPROVED BY
 HAL DIETRICK
 P.E. # 76416

PROJECT NO:	19750-066-01	DATE:	NOV 2019
INDEX NO:		DWG NO:	E-2



PUMP STATION NOTES

1. PANEL LOCATION IS AS SHOWN ON THE PLANS.
2. CONDUCTORS EXITING CONTROL PANEL SHALL BE TYPE THWN INSULATED COPPER. INTERNAL CONTROL PANEL WIRING SHALL BE TYPE MTW OR AS REQUIRED BY THE MANUFACTURER.
3. PROVIDE A SURGE PROTECTION DEVICE (SPD) ON THE LOAD SIDE OF THE MAIN CIRCUIT BREAKER. SPD SHALL BE AN ADVANCED PROTECTION TECHNOLOGIES TE/4XT, PQ PROTECTION PQC100, OR APPROVED EQUAL.
4. THE PUMP CONTROL PANEL ENCLOSURE SHALL BE NEMA 4X STAINLESS STEEL FITTED WITH A 3 POINT LOCKABLE LATCH AND DEAD FRONT PANEL.
5. ALL CONNECTIONS TO THE THE PANEL SHALL INCLUDE, BUT NOT BE LIMITED TO, THE FOLLOWING: (SEE SPECIFICATIONS FOR FURTHER REQUIREMENTS)
 - A. THERMAL MAGNETIC CIRCUIT BREAKERS INDICATED.
 - B. MULTI-STAGE PUMP CONTROL SYSTEM (SEE SPECIFICATION)
 - C. CONTROL POWER TRANSFORMERS, AS REQUIRED.
 - D. SURGE PROTECTION DEVICE.
 - E. RUN TIME METER FOR EACH PUMP.
 - F. HAND-OFF-AUTO SELECTOR SWITCH FOR EACH PUMP.
 - G. GREEN PUMP STOP, RED PUMP RUN LIGHTS FOR EACH PUMP.
 - H. ALARM STROBE AND HORN WITH SILENCE SWITCH.
 - I. SEAL FAILURE RELAY WITH INDICATING LIGHT FOR EACH PUMP.
 - J. CONTROL SYSTEM SHALL BE 120 VOLT.
 - K. TYPE GFCI 20 AMP, 125 VOLT DUPLEX RECEPTACLE.
 - L. SUBMERSIBLE LEVEL TRANSMITTER CONTROL.
6. THE CONTROL PANEL INTEGRATED INTERRUPT RATING SHALL BE EQUAL TO THE AVAILABLE FAULT CIRCUIT CURRENT AT THE POINT OF INSTALLATION WITH A MINIMUM OF 22,000 RMS SYMMETRICAL AMPS.
7. GROUND ALL ENCLOSURES AND EQUIPMENT IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE. PROVIDE LIGHTNING PROTECTION AND A MINIMUM OF 5 GROUND RODS IN A HALO AROUND THE EQUIPMENT AREA TO PROVIDE A GROUND RESISTANCE OF NOT GREATER THAN 3 OHMS.
8. PROVIDE ANTENNA, COAXIAL CABLE, ANTENNA MAST AND ALL APPURTENANCES AS APPROVED BY THE DISTRICT AND CONFORMING TO THEIR STANDARDS. SECURE CABLE TO THE ANTENNA MAST WITH STAINLESS STEEL CABLE TIES.
9. CONTRACTOR SHALL PROVIDE THE TELEMETRY SYSTEM RTU AND ALL REQUIRED SCADA EQUIPMENT. THE TELEMETRY SYSTEM SHALL BE AS APPROVED BY THE DISTRICT AND SHALL CONFORM TO THEIR STANDARDS.

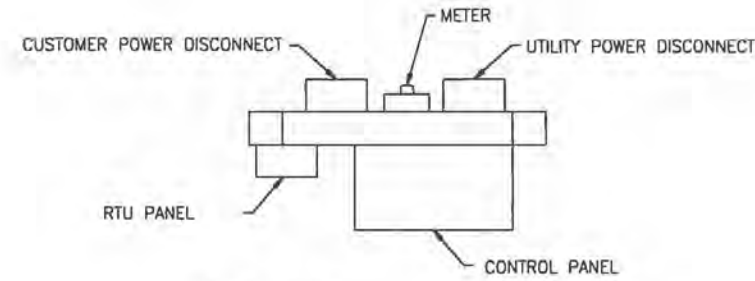


11/15/2019 11:15 AM HAL D:\3. EPC PROJECTS\19750-066-01 CRANE CREEK M-1 CANAL - STANDARD\ELEC\LATEST CAD FILES - REVISED 11-14-19\E3.DWG

	DESIGNED: HAL DIETRICK	<p style="font-size: 8px;"> CERTIFICATE OF AUTHORIZATION #1841 730 NE WALDO ROAD, GAINESVILLE, FLORIDA 32641 / (352) 377-5821 8657 BAYPINE ROAD SUITE 300, JACKSONVILLE, FL 32256 / (904) 744-5401 </p>	CRANE CREEK M-1 CANAL FLOW RESTORATION ST. JOHN'S RIVER WATER MANAGEMENT DISTRICT	PUMP STATION ONE LINE DIAGRAM	APPROVED BY	PROJECT NO: 19750-066-01	DATE: NOV 2019	
	DRAWN: HAL DIETRICK					HAL DIETRICK	INDEX NO:	DWG NO: E3
	CHECKED: MICHAEL CLARK					P.E. # 76416		

PLOTTED: 11/15/2019 12:09 PM HAL DIETRICK

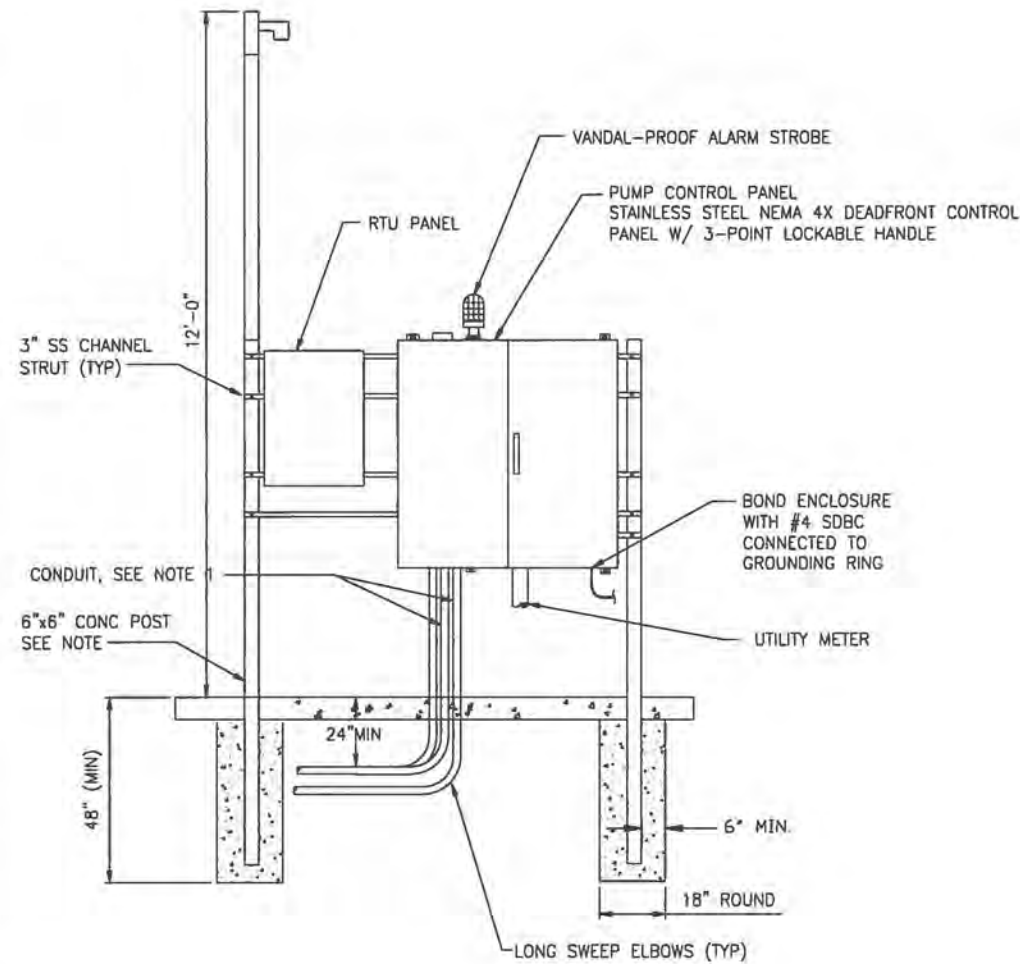
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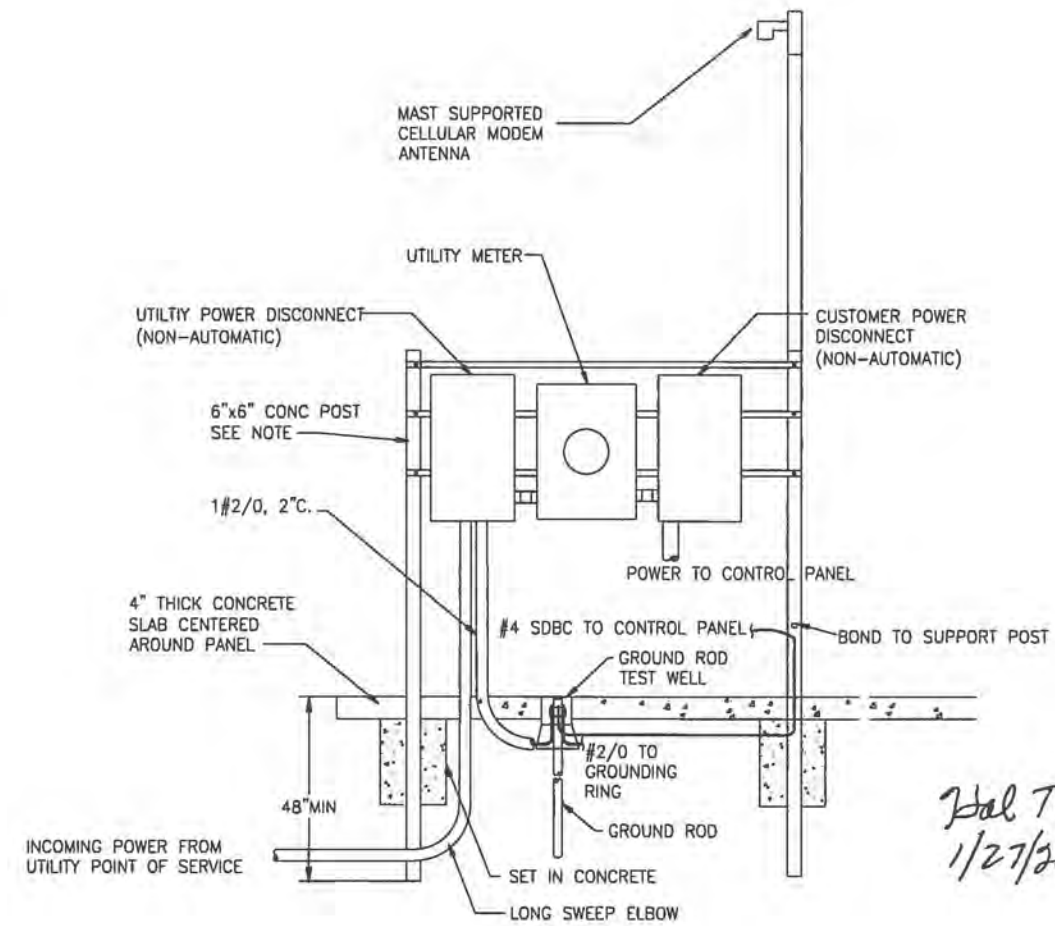
PLAN VIEW

NOTES:

1. PUMP MOTOR CONDUIT SHALL BE SIZED TO MAX 40% CONDUIT FILL. MINIMUM CONDUIT SIZE SHALL BE 2 1/2". ABOVE GROUND CONDUITS SHALL BE PVC COATED RIGID GALVANIZED STEEL DOWN TO BELOW THE FIRST ELBOW BELOW GRADE. UNDERGROUND CONDUITS BETWEEN THE JUNCTION BOX AND WETWELL SHALL BE SCHEDULE 80 PVC ENCASED WITH A MINIMUM OF 2" OF CONCRETE. REFER TO NEC 501.10(A)(1)(a) AND THE EXCEPTION FOR THE INSTALLATION OF THESE CONDUITS. ANALOG SIGNAL CONDUITS SHALL BE PVC COATED RIGID GALVANIZED STEEL ABOVE AND BELOW GRADE. ALL OTHER UNDERGROUND CONDUITS SHALL BE SCHEDULE 80 PVC.
2. INSTALL AN ELECTRICAL GROUNDING SYSTEM IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE AS WELL AS LOCAL CODES AND ORDINANCES. INSTALL AN UNDERGROUND PERIMETER CABLE GROUNDING SYSTEM WITH CONNECTIONS TO AT LEAST WET WELL COVER, VALVE VAULT COVER, CONTROL PANELS, GENERATOR, UTILITY COMPANY TRANSFORMER, AUTOMATIC TRANSFER SWITCH, AND ANTENNA MANUAL DISCONNECT SWITCH, AND METAL FENCE.
3. THE STATION NAME, PCU I.D. NUMBER, AND ADDRESS SHALL BE AFFIXED TO THE FRONT OF THE METER CABINET.
4. ALL MOUNTING HARDWARE & BRACKETS SHALL BE 316 STAINLESS STEEL.
5. COAT PORTIONS OF ALUMINUM IN CONTACT WITH CONCRETE WITH COAL TAR EPOXY.



FRONT VIEW



REAR VIEW

ELECTRICAL SERVICE AND CONTROL PANEL DETAIL 1

NTS

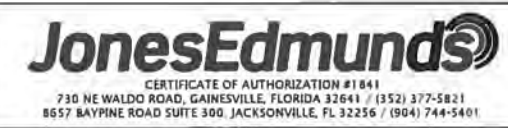
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E-2



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 Xref Xref\XREF-TB.dwg

REV.	DATE	REVISIONS	BY	APPROV.

DESIGNED HAL DIETRICK
 DRAWN HAL DIETRICK
 CHECKED MICHAEL CLARK



CRANE CREEK M-1 CANAL FLOW RESTORATION
 ST. JOHN'S RIVER WATER MANAGEMENT DISTRICT

PUMP STATION ELECTRICAL DETAILS

APPROVED BY	PROJECT NO:	DATE
HAL DIETRICK	19750-066-01	NOV 2019
P.E. # 76416	INDEX NO:	DWG NO:
		E6

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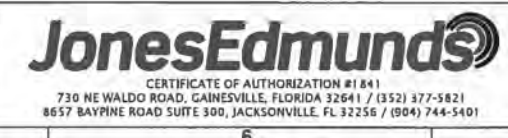
POWER AND CONTROL WIRING SCHEDULE

CIRCUIT NUMBER	FROM	TO	HP	VOLTS	QARC	WIRE DATA		CONDUIT	REMARKS
						POWER OR CONTROL	GROUNDING (G) NEUTRAL (N)		
P100	INCOMING SERVICE	SERVICE DISC.		480		-	-	3"	BY POWER COMPANY
P101	SERVICE DISC.	METER		480		4-3/0	1-1	3"	
P102	METER	CUSTOMER DISCONNECT		480		3-3/0	1-1	3"	
P103	CUSTOMER DISCONNECT	PUMP CONTROL PANEL		480		3-3/0	1-1	3"	
P104	PUMP CONTROL PANEL	PUMP 1		480		4-6(+)	1-10	2"	P1 POWER (INCLUDE OTHER CONDUCTERS AS PER MOTOR MPR02)
P105	PUMP CONTROL PANEL	PUMP 2		480		4-6(+)	1-10	2"	P2 POWER (INCLUDE OTHER CONDUCTERS AS PER MOTOR MPR02)
P106	PUMP CONTROL PANEL	PUMP 3		480		4-6(+)	1-10	2"	P3 POWER (INCLUDE OTHER CONDUCTERS AS PER MOTOR MPR02)
P107	PUMP CONTROL PANEL	RTU		120		2-12	1-12	1"	
P200	INCOMING SERVICE	SERVICE DISC.		480		4-8(+)	1-10	1"	
P201	SERVICE DISC.	METER		480		4-8(+)	1-10	1"	
P202	METER	CUSTOMER DISCONNECT SWITCH		480		4-8(+)	1-10	1"	
P203	CUSTOMER DISCONNECT SWITCH	WEIR CONTROL PANEL		480		4-8(+)	1-10	1"	
P204	WEIR CONTROL PANEL	AIR COMPRESSOR 1		480		4-10(+)	1-10	1"	
P205	WEIR CONTROL PANEL	AIR COMPRESSOR 2		480		4-10(+)	1-10	1"	
P206	WEIR CONTROL PANEL	RTU		120		2-12	1-12	1"	
C100	PUMP CONTROL PANEL	WETWELL		120		6-12	1-12	1"	FLOAT
C200	WEIR CONTROL PANEL	AIR COMPRESSOR 1		120		6-12	1-12	1"	
C201	WEIR CONTROL PANEL	AIR COMPRESSOR 2		120		6-12	1-12	1"	
C202	WEIR CONTROL PANEL	MECHANICAL VALVE PANEL		120		6-12	1-12	1"	
C203	WEIR CONTROL PANEL	MECHANICAL VALVE PANEL		120		6-12	1-12	1"	
S100	PUMP CONTROL PANEL	LT 1-10		4/20		1 / TSP		3/4"	ANALOG SIGNAL LEVEL
S101	PUMP CONTROL PANEL	ANTENNA		-		CFWE		3/4"	AS REQD BY MFR
S102	PUMP CONTROL PANEL	RTU		-		SEE REMARKS		3/4"	AS REQD BY MFR
S103	PUMP CONTROL PANEL	LT 2-10		4/20		1 / TSP		3/4"	ANALOG SIGNAL LEVEL
S200	WEIR CONTROL PANEL	MECHANICAL VALVE PANEL							
S201	PUMP CONTROL PANEL	ANTENNA		-		CFWE		3/4"	AS REQD BY MFR
S202	PUMP CONTROL PANEL	RTU		-		SEE REMARKS		3/4"	AS REQD BY MFR
S203	MECHANICAL VALVE PANEL	IT-1		4/20		CFWE		3/4"	ANALOG FROM LT
S204	MECHANICAL VALVE PANEL	IT-2		4/20		CFWE		3/4"	ANALOG FROM LT
S205	MECHANICAL VALVE PANEL	LT 2-10		4/20		CFWE		3/4"	ANALOG FROM LT
S206	MECHANICAL VALVE PANEL	LT 2-11		4/20		CFWE		3/4"	ANALOG FROM LT



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DESIGNED	HAL DIETRICK
DRAWN	HAL DIETRICK
CHECKED	MICHAEL CLARK
DATE	
REVISIONS	
BY	
APPROD.	

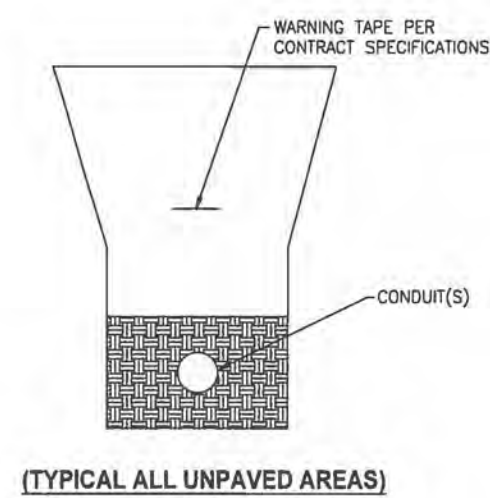


CRANE CREEK M-1 CANAL FLOW RESTORATION
ST. JOHN'S RIVER WATER MANAGEMENT DISTRICT

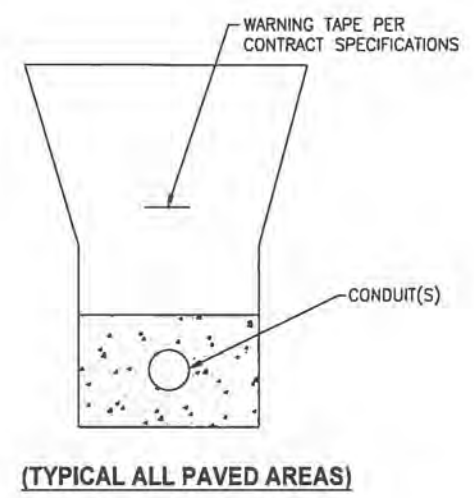
POWER CONTROL WIRING SCHEDULE

APPROVED BY	PROJECT NO:	DATE:
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P.E. # 76416	INDEX NO:	DWG NO:
		E5

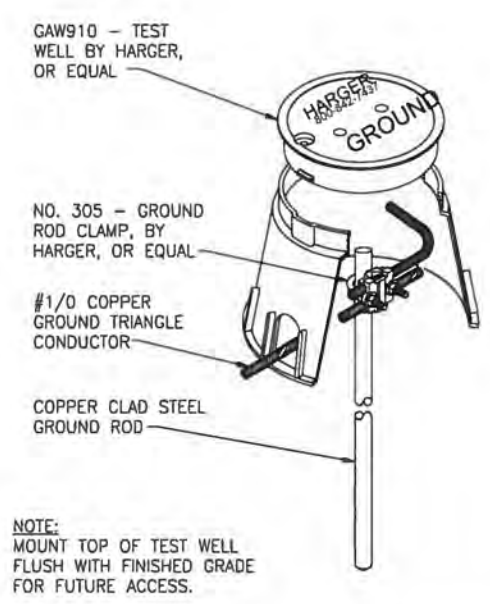
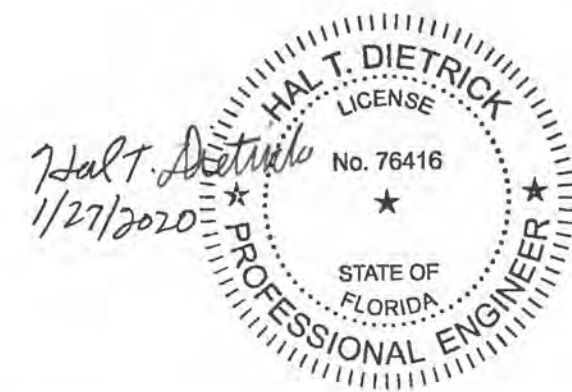
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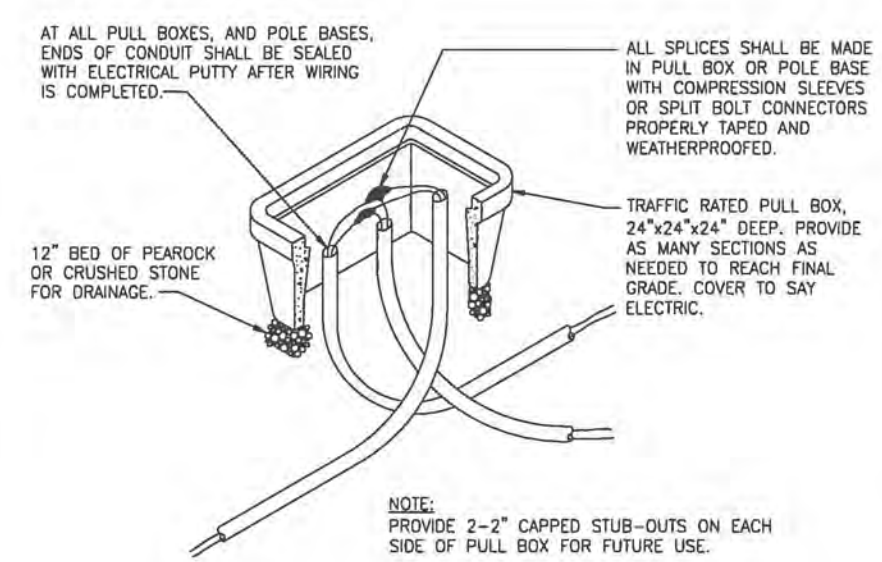
UNDERGROUND TRENCH DETAIL
 NTS
 (TYPICAL ALL UNPAVED AREAS)



UNDERGROUND TRENCH DETAIL
 NTS
 (TYPICAL ALL PAVED AREAS)



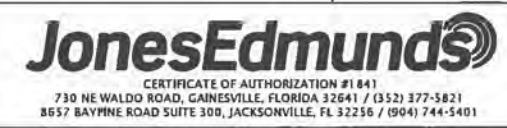
GROUND ROD TEST WELL DETAIL 4
 NTS



PULLBOX DETAIL 6
 NTS

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DESIGNED	HAL DIETRICK
DRAWN	HAL DIETRICK
CHECKED	MICHAEL CLARK
APPROVED	



CRANE CREEK M-1 CANAL FLOW RESTORATION
 ST. JOHN'S RIVER WATER MANAGEMENT DISTRICT

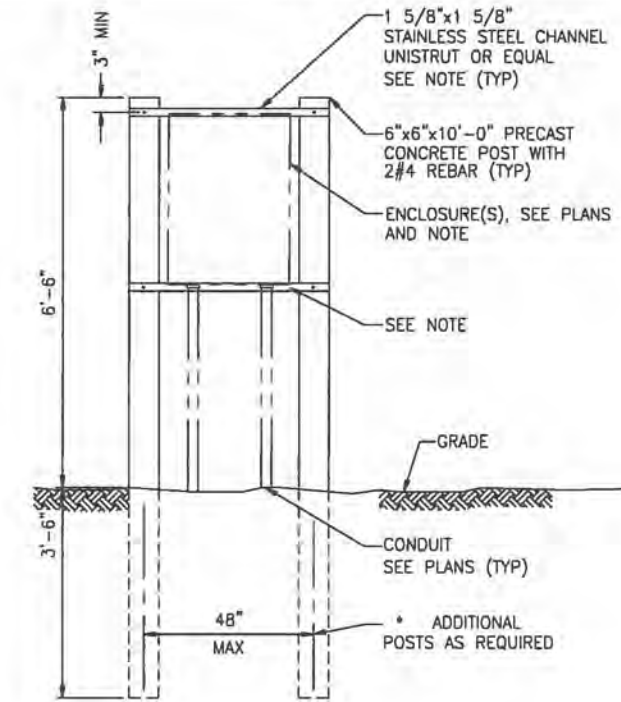
ELECTRICAL DETAILS

APPROVED BY	PROJECT NO:	DATE:
HAL DIETRICK	19750-066-01	NOV 2019
P.E. # 76416	INDEX NO:	DWG NO:
		E8

PROJECT NO:	DATE:
19750-066-01	NOV 2019
INDEX NO:	DWG NO:
	E8

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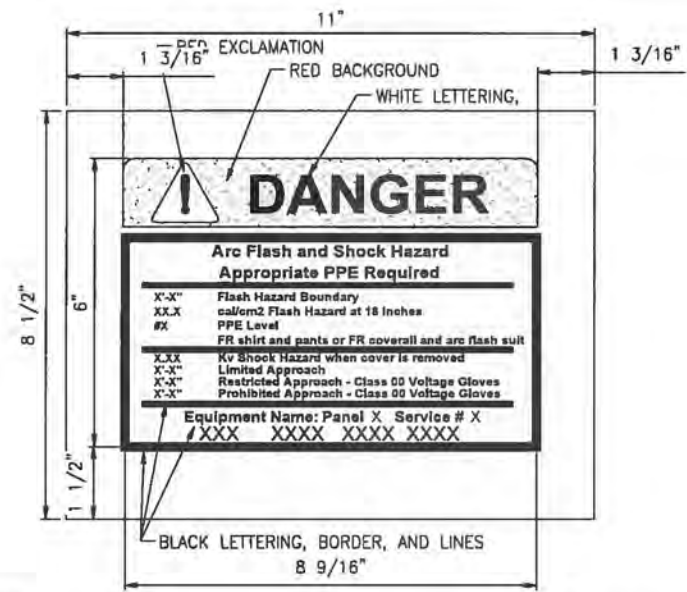
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NOTE:
SECURE CHANNELS TO POST(S) AND ENCLOSURE(S)
TO CHANNELS WITH STAINLESS STEEL HARDWARE.

TYPICAL EQUIPMENT MOUNTING ON CONCRETE POST(S) DETAIL

NTS




- NOTES:
1. THE EXCLAMATION POINT AND ASSOCIATED BACKGROUND SHALL BE RED IN COLOR.
 2. THE WORD "DANGER" AND THE TRIANGLE SHALL BE WHITE IN COLOR.
 3. ALL OTHER LETTERING, NUMBERING, AND LINWORK SHALL BE BLACK IN COLOR.

ARC FLASH WARNING LABEL DETAIL

NTS

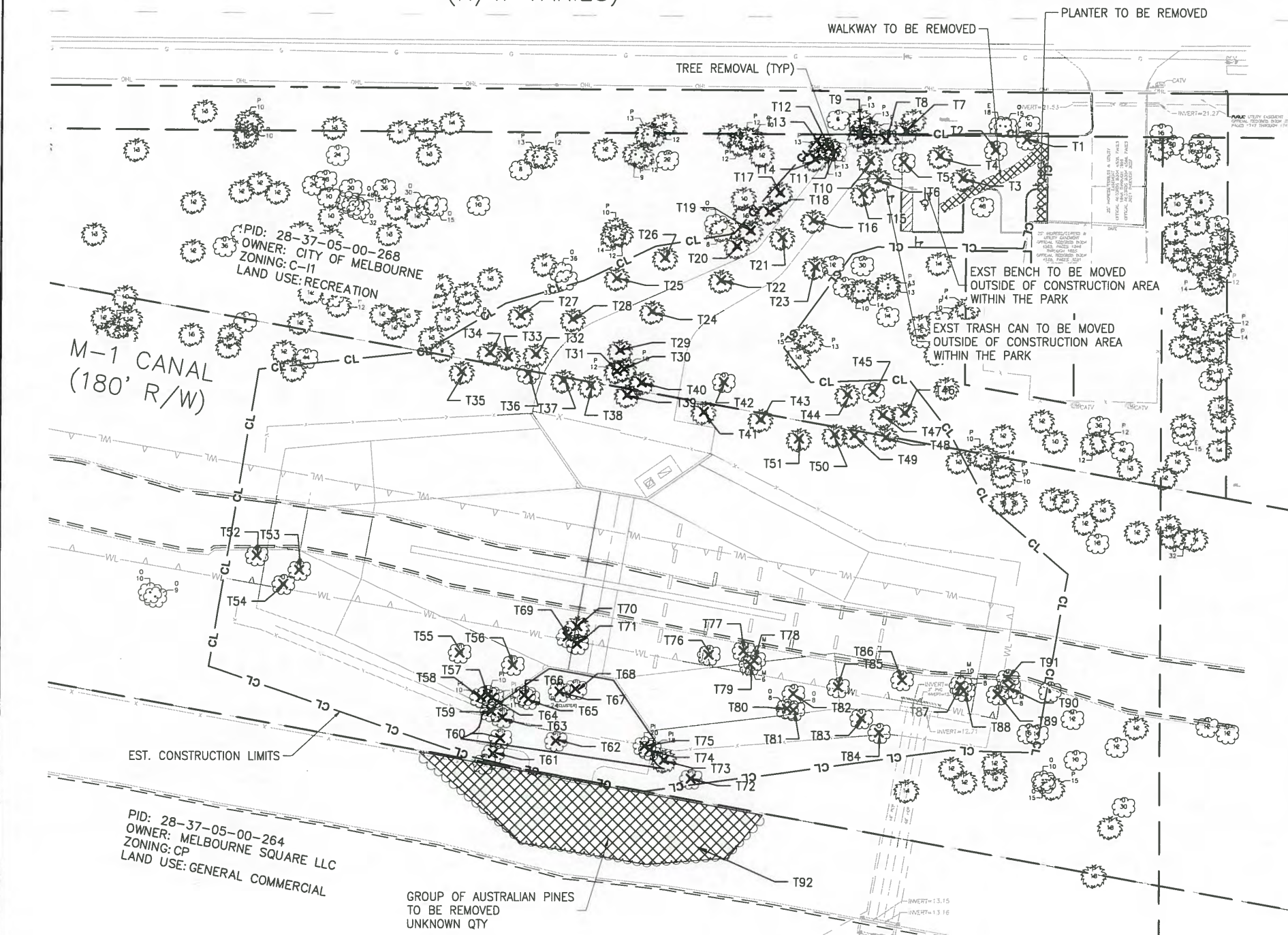


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 Xref: \\xref\XR018-TB.dwg

DESIGNED	HAL DIETRICK	 CERTIFICATE OF AUTHORIZATION #1841 730 NE WALDO ROAD, GAINESVILLE, FLORIDA 32641 / (352) 377-5821 8657 BAYPINE ROAD SUITE 300, JACKSONVILLE, FL 32256 / (904) 744-5401	CRANE CREEK M-1 CANAL FLOW RESTORATION ST. JOHN'S RIVER WATER MANAGEMENT DISTRICT	ELECTRICAL DETAILS	APPROVED BY	PROJECT NO:	DATE:
DRAWN	HAL DIETRICK				HAL DIETRICK	19750-066-01	NOV 2019
CHECKED	MICHAEL CLARK				P.E. # 76416	INDEX NO:	DWG NO:
							E9

PLOTTED: 1/20/2020 12:15 PM DEAN HAUBRICH

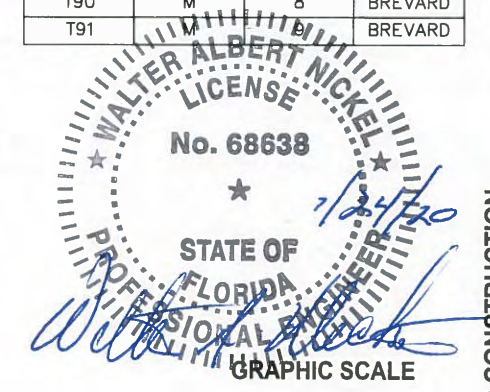
HIBISCUS BOULEVARD WEST
(R/W VARIES)



TREE REMOVAL DATA			
NO.	SPECIES	DBH (IN)	JURISDICTION
T1	O	15	MELBOURNE
T2	O	13	MELBOURNE
T3	P	12	MELBOURNE
T4	P	14	MELBOURNE
T5	CA	12	MELBOURNE
T6	P	12	MELBOURNE
T7	P	12	MELBOURNE
T8	P	14	MELBOURNE
T9	P	13	MELBOURNE
T10	P	13	MELBOURNE
T11	O	13	MELBOURNE
T12	P	13	MELBOURNE
T13	P	13	MELBOURNE
T14	P	13	MELBOURNE
T15	P	13	MELBOURNE
T16	P	13	MELBOURNE
T17	P	12	MELBOURNE
T18	P	12	MELBOURNE
T19	P	12	MELBOURNE
T20	P	10	MELBOURNE
T21	P	12	MELBOURNE
T22	P	15	MELBOURNE
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T24	P	12	MELBOURNE
T25	P	12	MELBOURNE
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T29	P	10	MELBOURNE
T30	P	10	MELBOURNE
T31	P	12	MELBOURNE
T32	P	12	MELBOURNE
T33	P	11	MELBOURNE
T34	P	8	MELBOURNE
T35	P	12	BREVARD
T36	O	18	BREVARD
T37	P	10	BREVARD
T38	P	10	BREVARD
T39	P	10	BREVARD
T40	P	10	MELBOURNE
T41	P	10	BREVARD
T42	O	42	MELBOURNE
T43	P	12	BREVARD
T44	P	13	MELBOURNE
T45	CA	6	MELBOURNE
T46	P	13	MELBOURNE
T47	P	13	MELBOURNE
T48	P	10	BREVARD
T49	P	15	BREVARD
T50	P	10	BREVARD
T51	P	13	BREVARD

TREE REMOVAL DATA			
NO.	SPECIES	DBH (IN)	JURISDICTION
T52	M	12	BREVARD
T53	M	15	BREVARD
T54	O	12	BREVARD
T55	PI	28	BREVARD
T56	PI	10	BREVARD
T57	PI	10	BREVARD
T58	PI	10	BREVARD
T59	PI	11	BREVARD
T60	PI	6	BREVARD
T61	PI	10	BREVARD
T62	PI	28	BREVARD
T63	PI	9	BREVARD
T64	PI	13	BREVARD
T65	PI	24 (CLUSTER)	BREVARD
T66	PI	11	BREVARD
T67	PI	13	BREVARD
T68	PI	13	BREVARD
T69	M	10	BREVARD
T70	P	13	BREVARD
T71	PI	12	BREVARD
T72	PI	15	BREVARD
T73	P	12	BREVARD
T74	PI	18	BREVARD
T75	PI	20	BREVARD
T76	M	10	BREVARD
T77	M	6	BREVARD
T78	M	6	BREVARD
T79	M	6	BREVARD
T80	O	8	BREVARD
T81	O	8	BREVARD
T82	O	8	BREVARD
T83	O	10	BREVARD
T84	O	6	BREVARD
T85	M	6	BREVARD
T86	M	8	BREVARD
T87	M	10	BREVARD
T88	M	8	BREVARD
T89	M	8	BREVARD
T90	M	8	BREVARD
T91			BREVARD

TREE REMOVAL DBH (IN) / TREE QTY SUMMARY			
SPECIES	BREVARD	MELBOURNE	TOTAL
CA (CAMPHOR)	0 / 0	18 / 2	18 / 2
M (MANGROVE)	122 / 14	0 / 0	122 / 14
O (OAK)	70 / 7	83 / 4	153 / 11
P (PALM)	137 / 12	415 / 34	552 / 46
PI (PINE)	237 / 18	0 / 0	237 / 18



NOT FOR CONSTRUCTION

SAVED: 11/15/2019 12:52 PM MHOFFMAN Y:\19750-SURVMD\PROJECTS\066-01_CRANE CREEK_M-1_FLOW_RESTORATION_DEMO\05-1.DWG

DESIGNED	W NICKEL			
DRAWN	D HAUBRICH			
CHECKED	R KOLLER			
LTR.	DATE	REVISIONS	BY	APPRD.

JonesEdmunds
 CERTIFICATE OF AUTHORIZATION #1841
 730 NE WALDO ROAD, GAINESVILLE, FLORIDA 32641 / (352) 377-5821
 8657 BAYPINE ROAD SUITE 300, JACKSONVILLE, FL 32256 / (904) 744-5401

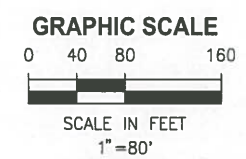
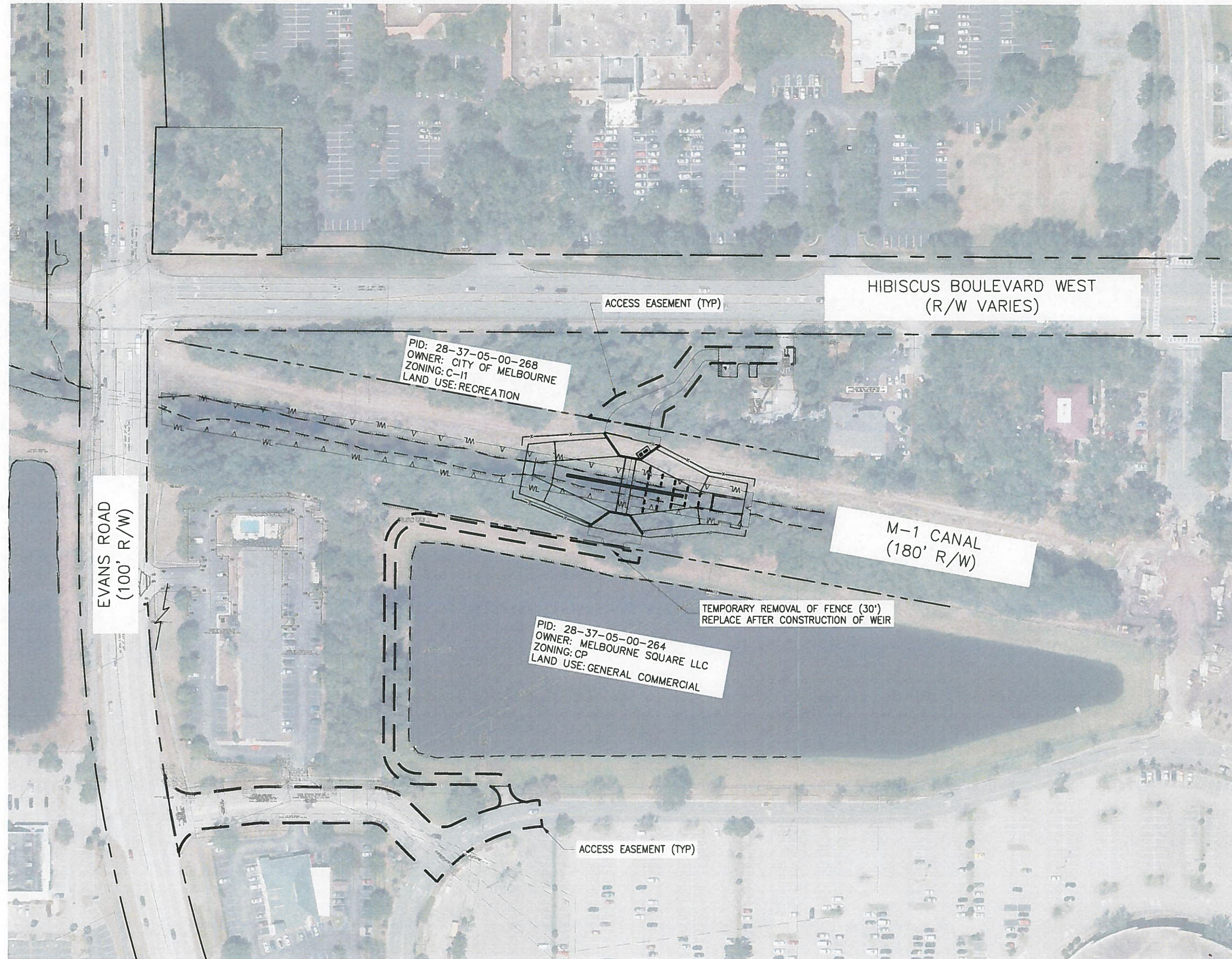
CRANE CREEK M-1 CANAL FLOW RESTORATION
 ST. JOHN'S RIVER WATER MANAGEMENT DISTRICT

TREE REMOVAL AND DEMO PLAN

CERTIFICATE OF AUTHORIZATION #1841 APPROVED BY W. NICKEL P.E. # 68638	PROJECT NO: 19750-066-01	DATE: DEC 2019
	INDEX NO:	DWG NO: D5-1

PLOTTED: 1/20/2020 12:16 PM DEAN HAUBRICH

Y:\19750-SJRWMD\PROJECTS\066-01_CRANE_CREEK_M-1_FLOW_RESTORATION_DESIGN\CAD\DWGS\CIVIL\C5-1.DWG
 12/19/2019 10:35 AM DHAUBRICH



NOT FOR CONSTRUCTION

LTR.	DATE	REVISIONS	BY	APPRD.

DESIGNED **W NICKEL**
 DRAWN **D HAUBRICH**
 CHECKED **R KOLLER**

JonesEdmunds

 CERTIFICATE OF AUTHORIZATION #1841
 730 NE WALDO ROAD, GAINESVILLE, FLORIDA 32641 / (352) 377-5821
 8657 BAYPINE ROAD SUITE 300, JACKSONVILLE, FL 32256 / (904) 744-5401

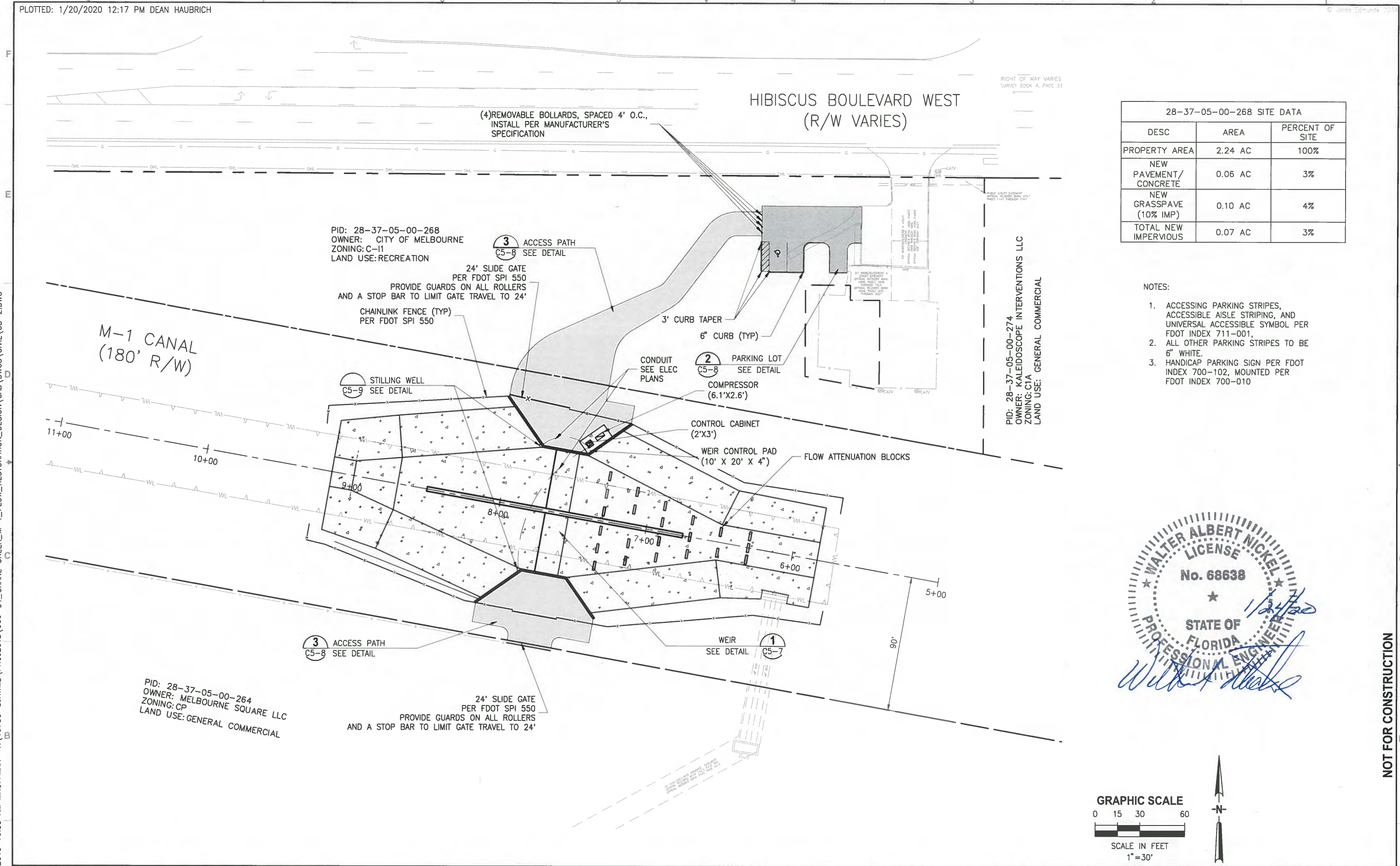
CRANE CREEK M-1 CANAL FLOW RESTORATION
ST. JOHN'S RIVER WATER MANAGEMENT DISTRICT

WEIR ACCESS PLAN

CERTIFICATE OF AUTHORIZATION #1841	PROJECT NO:	DATE:
APPROVED BY	19750-066-01	DEC 2019
W. NICKEL	INDEX NO:	DWG NO:
P.E. # 68638		C5-1

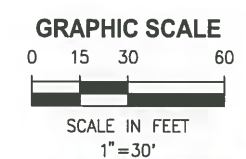
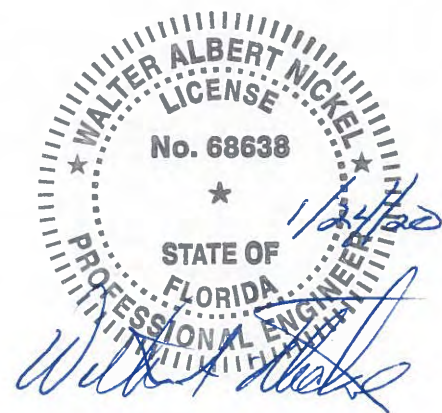
PLOTTED: 1/20/2020 12:17 PM DEAN HAUBRICH

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28-37-05-00-268 SITE DATA		
DESC	AREA	PERCENT OF SITE
PROPERTY AREA	2.24 AC	100%
NEW PAVEMENT/ CONCRETE	0.06 AC	3%
NEW GRASSPAVE (10% IMP)	0.10 AC	4%
TOTAL NEW IMPERVIOUS	0.07 AC	3%

- NOTES:
1. ACCESSING PARKING STRIPES, ACCESSIBLE AISLE STRIPING, AND UNIVERSAL ACCESSIBLE SYMBOL PER FDOT INDEX 711-001,
 2. ALL OTHER PARKING STRIPES TO BE 6" WHITE.
 3. HANDICAP PARKING SIGN PER FDOT INDEX 700-102, MOUNTED PER FDOT INDEX 700-010



NOT FOR CONSTRUCTION

LTR.	DATE	REVISIONS	BY	APPRD.

DESIGNED W NICKEL
DRAWN D HAUBRICH
CHECKED R KOLLER

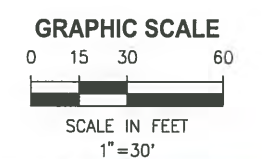
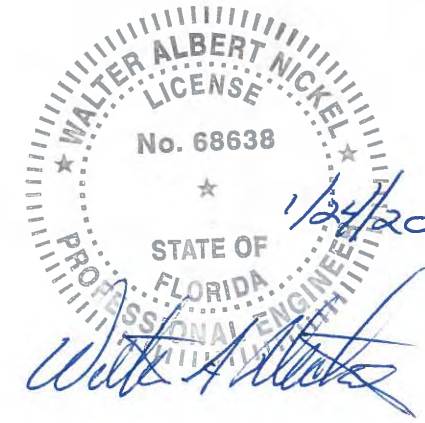
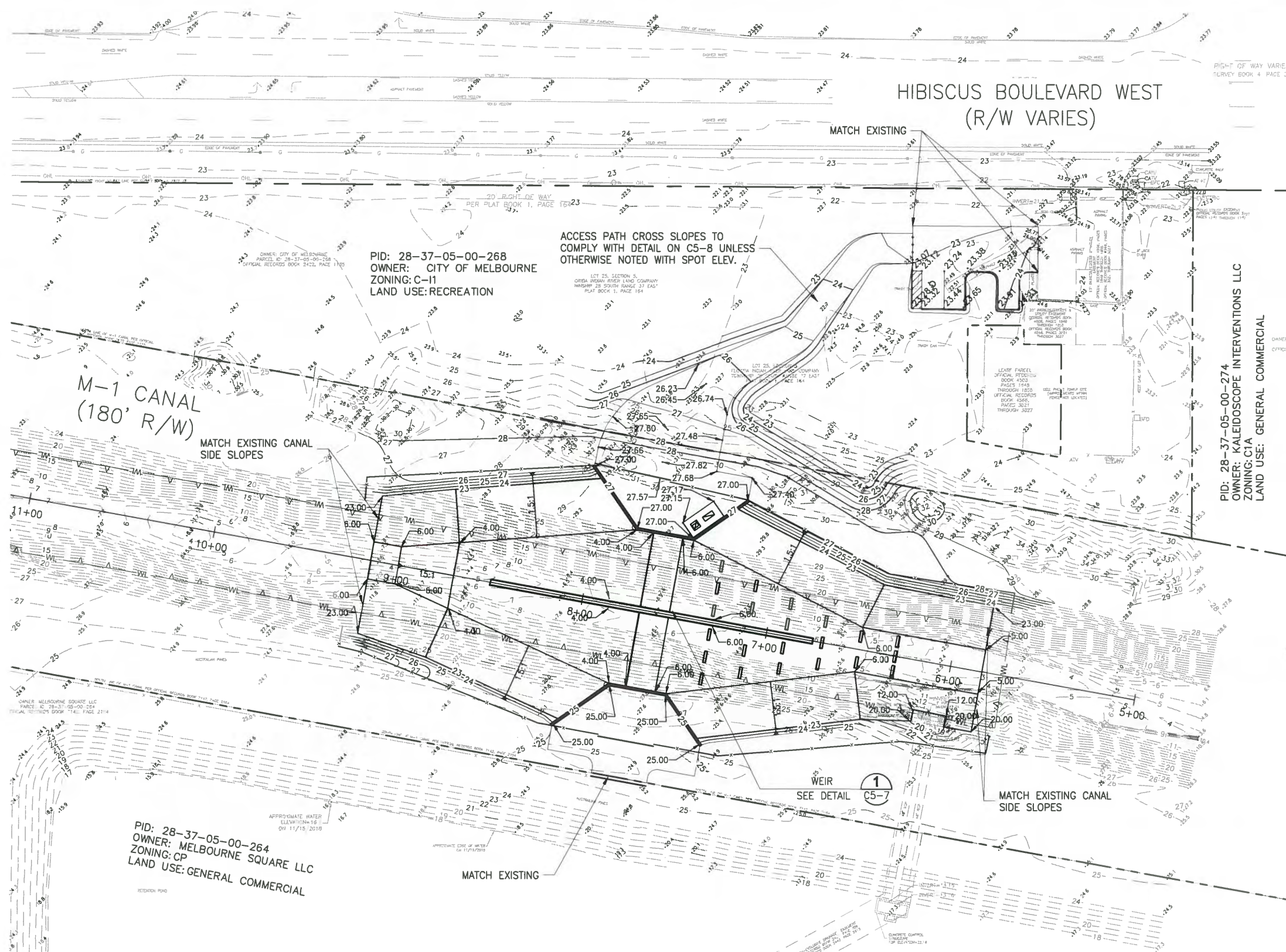
JonesEdmunds
CERTIFICATE OF AUTHORIZATION #1841
730 NE WALDO ROAD, GAINESVILLE, FLORIDA 32641 / (352) 377-5821
8657 BAYPINE ROAD SUITE 300, JACKSONVILLE, FL 32256 / (904) 744-5401

**CRANE CREEK M-1 CANAL FLOW RESTORATION
ST. JOHN'S RIVER WATER MANAGEMENT DISTRICT**

WEIR SITE PLAN

CERTIFICATE OF AUTHORIZATION #1841 APPROVED BY W. NICKEL P.E. # 68638	PROJECT NO: 19750-066-01	DATE: DEC 2019
INDEX NO:	DWG NO: C5-2	

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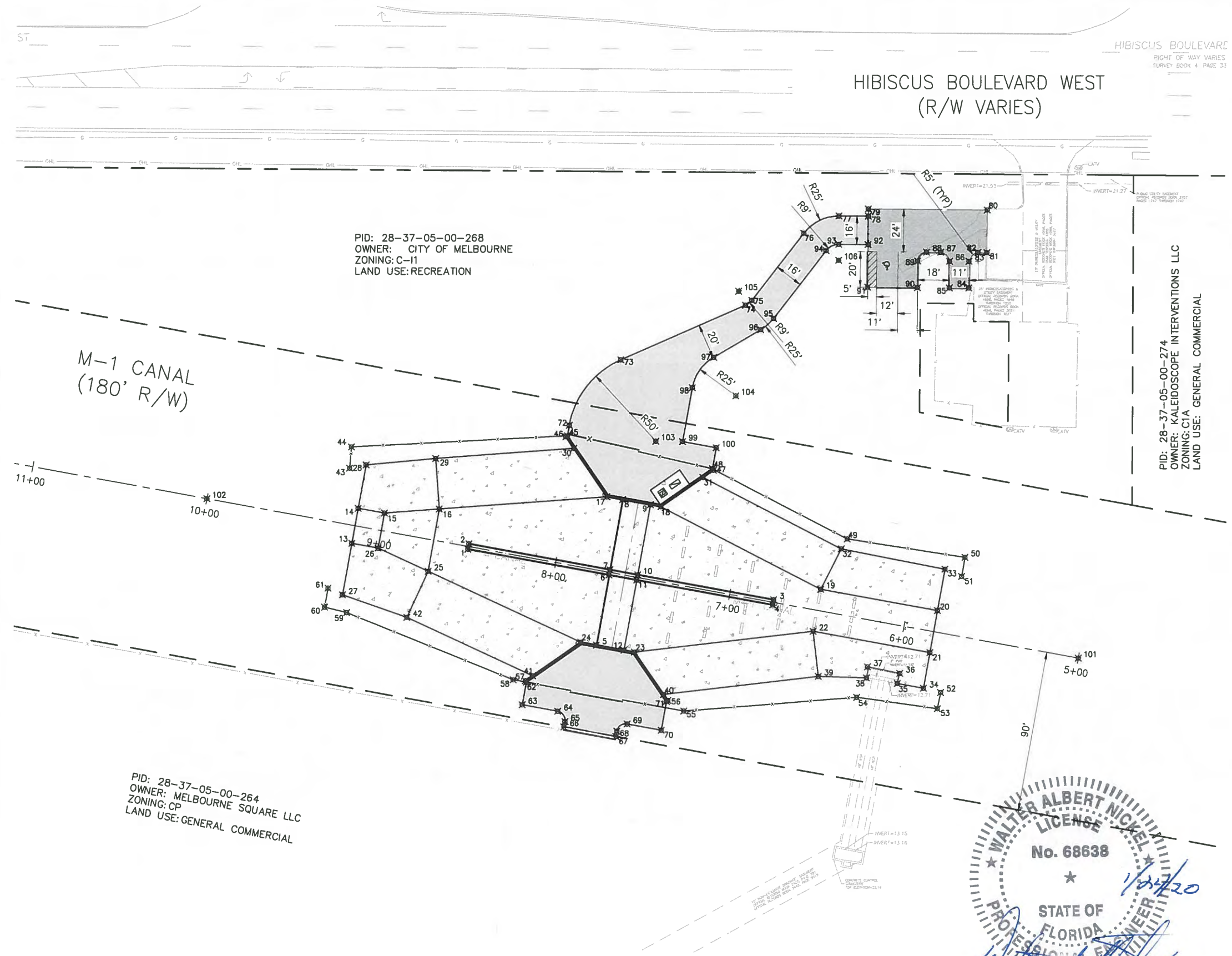


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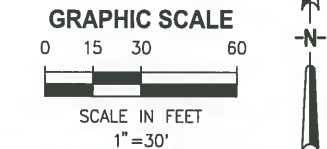
DESIGNED <u>W NICKEL</u> DRAWN <u>D HAUBRICH</u> CHECKED <u>R KOLLER</u>				CERTIFICATE OF AUTHORIZATION #1841 730 NE WALDO ROAD, GAINESVILLE, FLORIDA 32641 / (352) 377-5821 8657 BAYPINE ROAD SUITE 300, JACKSONVILLE, FL 32256 / (904) 744-5401	CRANE CREEK M-1 CANAL FLOW RESTORATION ST. JOHN'S RIVER WATER MANAGEMENT DISTRICT	WEIR GRADING PLAN	CERTIFICATE OF AUTHORIZATION #1841 APPROVED BY W. NICKEL P.E. # 68638	PROJECT NO: 19750-066-01	DATE: DEC 2019
LTR.	DATE	REVISIONS	BY				APPRD.	INDEX NO:	DWG NO: C5-3

PLOTTED: 1/20/2020 12:19 PM DEAN HAUBRICH



COORDINATE TABLE		
POINT	NORTHING	EASTING
1	1363673.60	768208.40
2	1363676.55	768208.93
3	1363645.62	768381.17
4	1363642.67	768380.64
5	1363619.91	768281.05
6	1363659.28	768288.12
7	1363662.24	768288.65
8	1363701.61	768295.72
9	1363698.78	768311.47
10	1363659.41	768304.40
11	1363656.45	768303.87
12	1363617.08	768296.80
13	1363676.72	768142.92
14	1363696.41	768146.45
15	1363693.76	768161.22
16	1363696.08	768192.11
17	1363703.20	768286.66
18	1363697.72	768317.38
19	1363651.54	768407.63
20	1363639.69	768473.58
21	1363616.07	768469.34
22	1363627.91	768403.39
23	1363616.02	768302.71
24	1363621.50	768272.19
25	1363661.15	768185.84
26	1363674.07	768157.68
27	1363647.77	768137.72
28	1363720.80	768150.83
29	1363724.50	768189.98
30	1363730.36	768267.97
31	1363714.22	768341.10
32	1363674.24	768419.25
33	1363662.95	768477.76
34	1363596.05	768465.74
35	1363598.73	768451.07
36	1363604.37	768452.46
37	1363607.98	768434.27
38	1363601.81	768433.67
39	1363602.59	768406.38
40	1363592.30	768319.21
41	1363602.61	768245.03
42	1363635.24	768173.95
43	1363718.98	768141.50
44	1363730.91	768142.51
45	1363737.43	768264.28
46	1363736.86	768263.45
47	1363718.27	768346.93
48	1363719.09	768346.36
49	1363679.83	768422.57
50	1363669.67	768489.08
51	1363658.96	768487.16
52	1363593.83	768475.46
53	1363584.73	768473.59

COORDINATE TABLE		
POINT	NORTHING	EASTING
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55	1363583.01	768330.52
56	1363588.93	768321.55
57	1363599.81	768241.00
58	1363600.32	768234.14
59	1363637.88	768140.04
60	1363640.88	768127.57
61	1363651.56	768129.48
62	1363598.98	768241.57
63	1363586.31	768239.29
64	1363582.72	768259.29
65	1363576.92	768263.33
66	1363573.91	768262.80
67	1363568.61	768292.32
68	1363571.61	768292.86
69	1363575.65	768298.66
70	1363572.21	768317.83
71	1363588.36	768320.73
72	1363743.26	768265.32
73	1363780.21	768294.44
74	1363811.10	768364.81
75	1363813.84	768368.32
76	1363851.62	768397.46
77	1363861.35	768417.38
78	1363861.27	768433.97
79	1363865.27	768433.99
80	1363864.94	768501.07
81	1363840.94	768500.96
82	1363840.96	768495.87
83	1363835.99	768490.85
84	1363820.99	768490.77
85	1363821.04	768479.77
86	1363836.04	768479.85
87	1363841.07	768474.87
88	1363841.10	768466.87
89	1363836.13	768461.85
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100	1363730.90	768348.48
101	1363613.21	768553.15
102	1363701.59	768061.02
103	1363734.52	768314.41
104	1363760.13	768359.47
105	1363818.91	768360.86
106	1363836.35	768417.26



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DESIGNED	W NICKEL			
DRAWN	D HAUBRICH			
CHECKED	R KOLLER			
LTR.	DATE	REVISIONS	BY	APPRD.

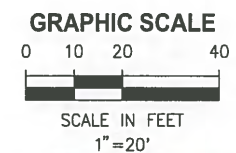
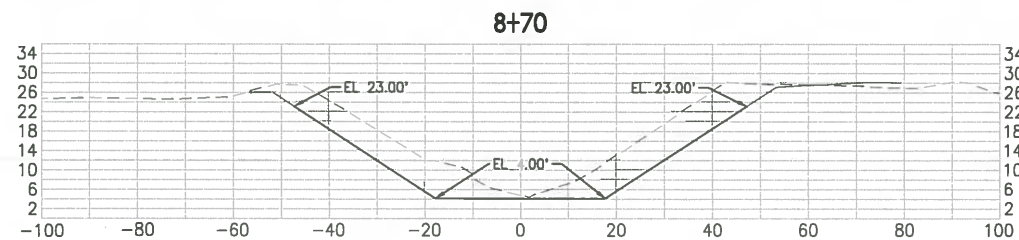
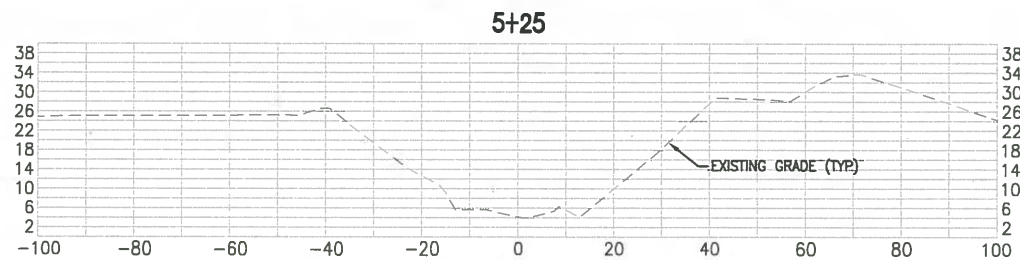
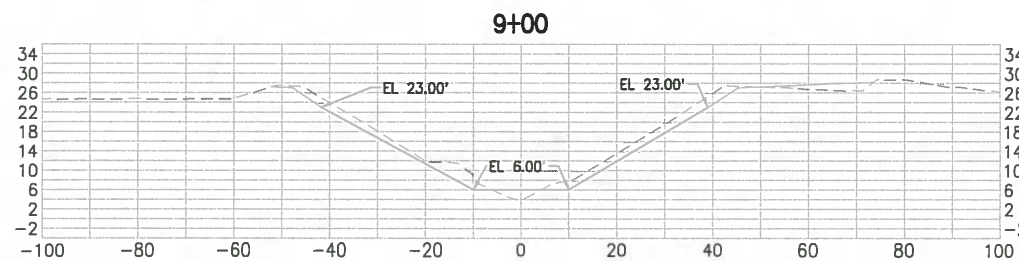
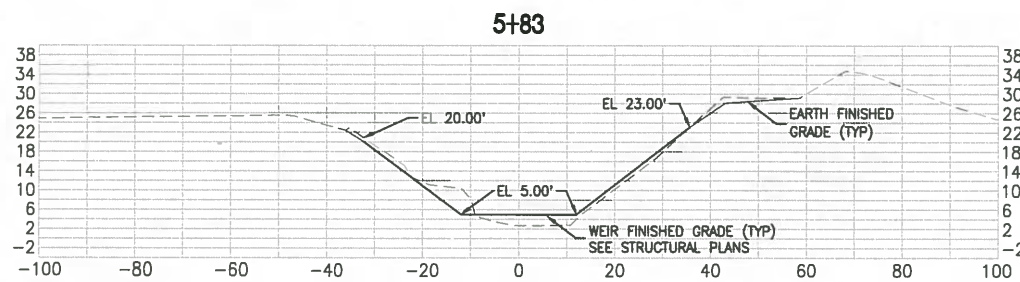
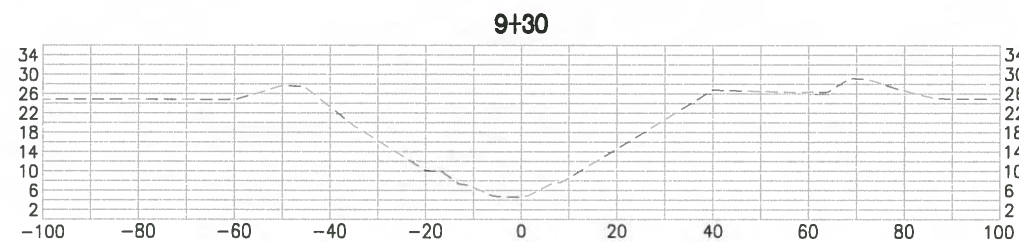
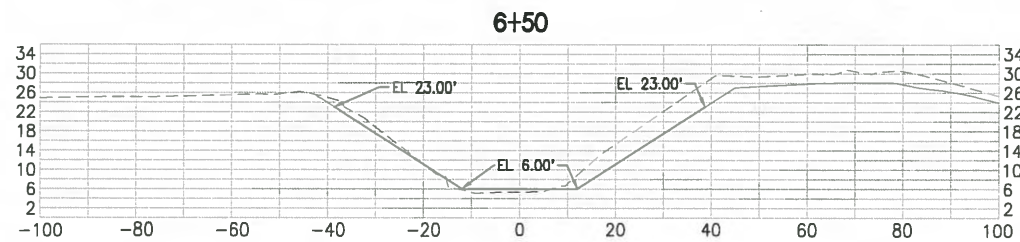
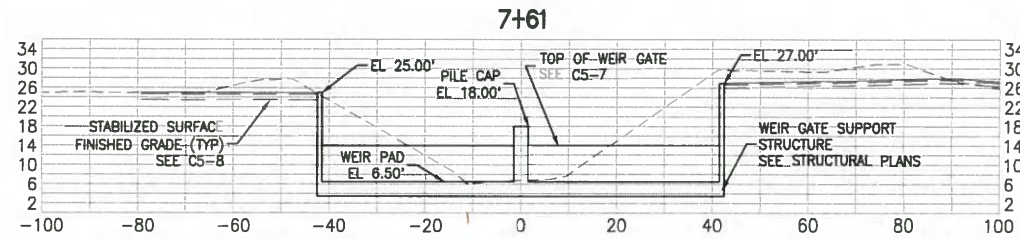
JonesEdmunds
 CERTIFICATE OF AUTHORIZATION #1841
 730 NE WALDO ROAD, GAINESVILLE, FLORIDA 32641 / (352) 377-5821
 8657 BAYPINE ROAD SUITE 300, JACKSONVILLE, FL 32256 / (904) 744-5401

CRANE CREEK M-1 CANAL FLOW RESTORATION
ST. JOHN'S RIVER WATER MANAGEMENT DISTRICT

WEIR GEOMETRIC CONTROL TABLE

CERTIFICATE OF AUTHORIZATION #1841	PROJECT NO:	DATE:
APPROVED BY	19750-066-01	DEC 2019
W. NICKEL	INDEX NO:	DWG NO:
P.E. # 68638		C5-4

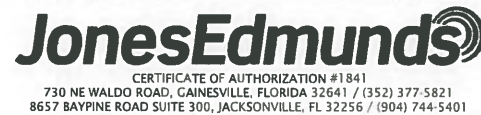
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DESIGNED	W NICKEL			
DRAWN	D HAUBRICH			
CHECKED	R KOLLER			
LTR.	DATE	REVISIONS	BY	APPRD.

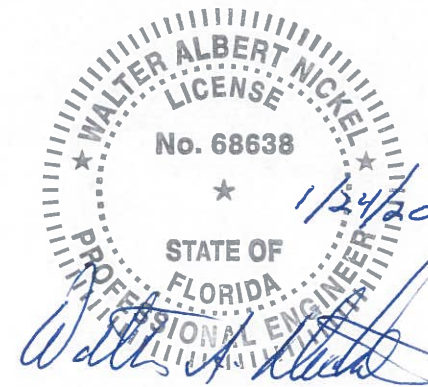
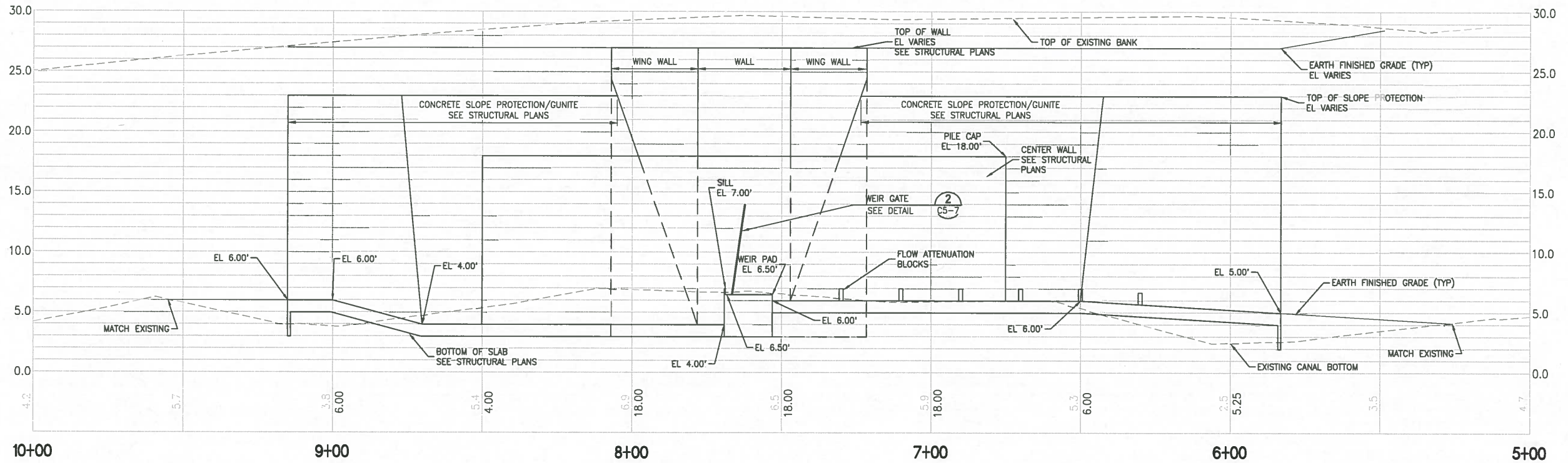


CRANE CREEK M-1 CANAL FLOW RESTORATION
ST. JOHN'S RIVER WATER MANAGEMENT DISTRICT

WEIR CROSS SECTIONS

CERTIFICATE OF AUTHORIZATION #1841 APPROVED BY W. NICKEL P.E. # 68638	PROJECT NO: 19750-066-01	DATE: DEC 2019
	INDEX NO:	DWG NO: C5-5

PLOTTED: 1/20/2020 12:20 PM DEAN HAUBRICH



GRAPHIC SCALE
0 2.5 5 10

SCALE IN FEET
1"=5' V

GRAPHIC SCALE
0 10 20 40

SCALE IN FEET
1"=20' H

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DESIGNED	W NICKEL			
DRAWN	D HAUBRICH			
CHECKED	R KOLLER			
LTR.	DATE	REVISIONS	BY	APPRD.

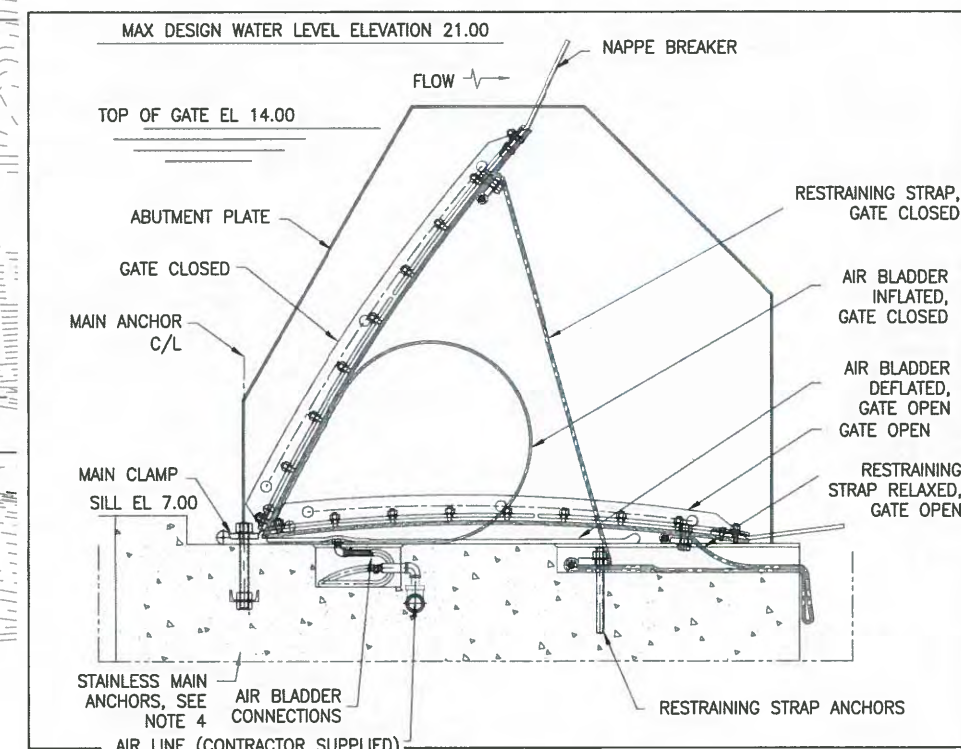
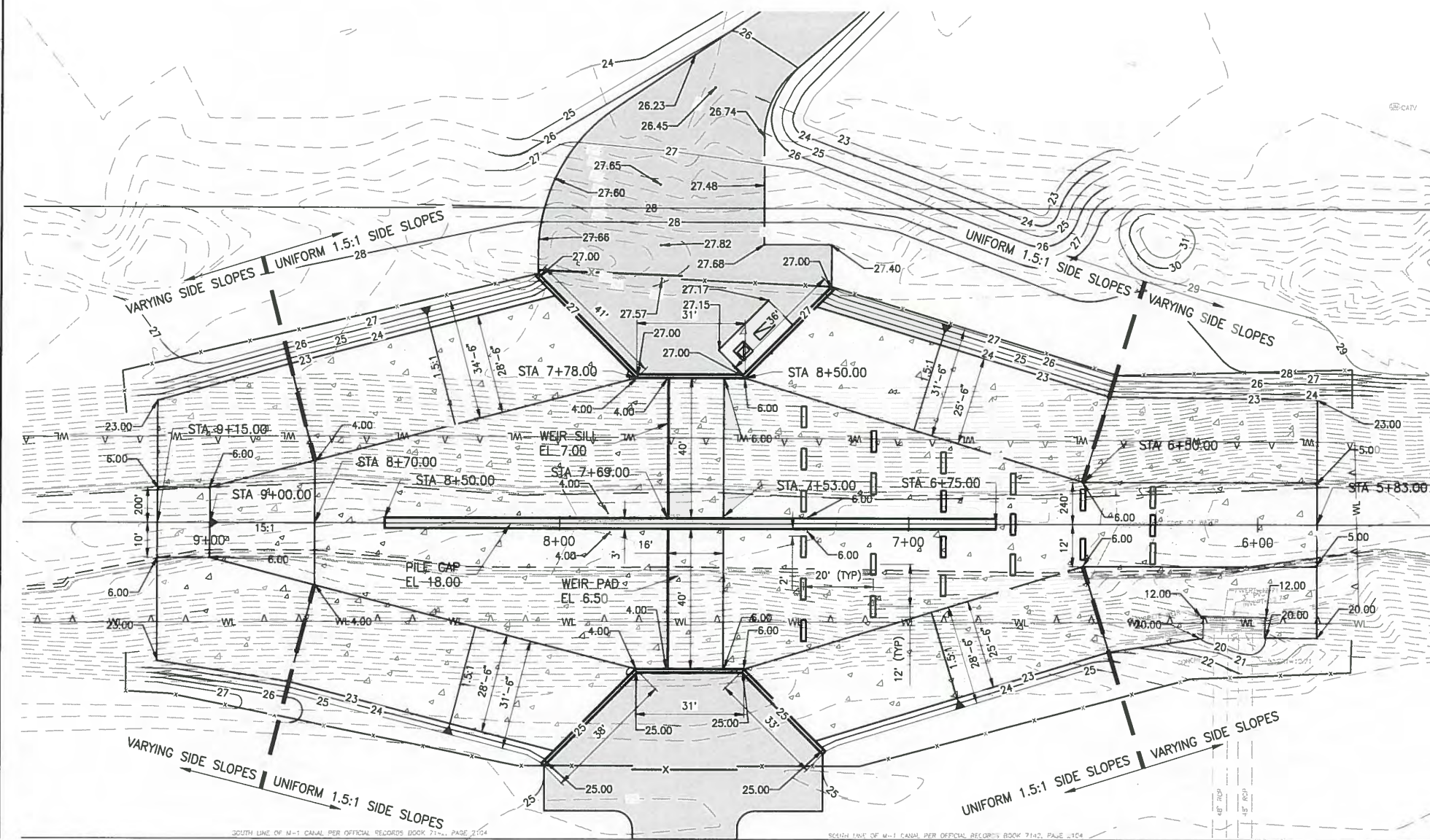
JonesEdmunds
 CERTIFICATE OF AUTHORIZATION #1841
 730 NE WALDO ROAD, GAINESVILLE, FLORIDA 32641 / (352) 377-5821
 8657 BAYPINE ROAD SUITE 300, JACKSONVILLE, FL 32256 / (904) 744-5401

CRANE CREEK M-1 CANAL FLOW RESTORATION
ST. JOHN'S RIVER WATER MANAGEMENT DISTRICT

WEIR PROFILE

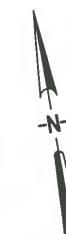
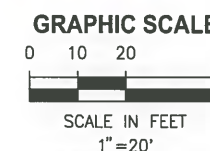
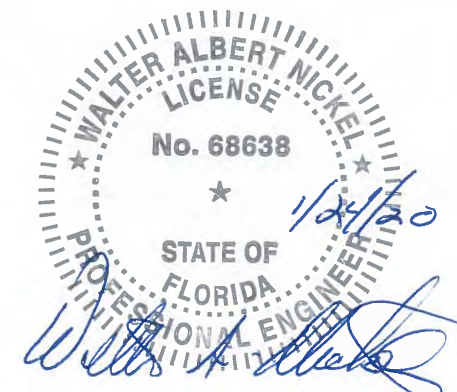
CERTIFICATE OF AUTHORIZATION #1841	PROJECT NO:	DATE:
APPROVED BY	19750-066-01	DEC 2019
W. NICKEL	INDEX NO:	DWG NO:
P.E. # 68638		C5-6

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DETAIL 2
N.T.S. C5-7

DETAIL 1
1"=20' C5-7

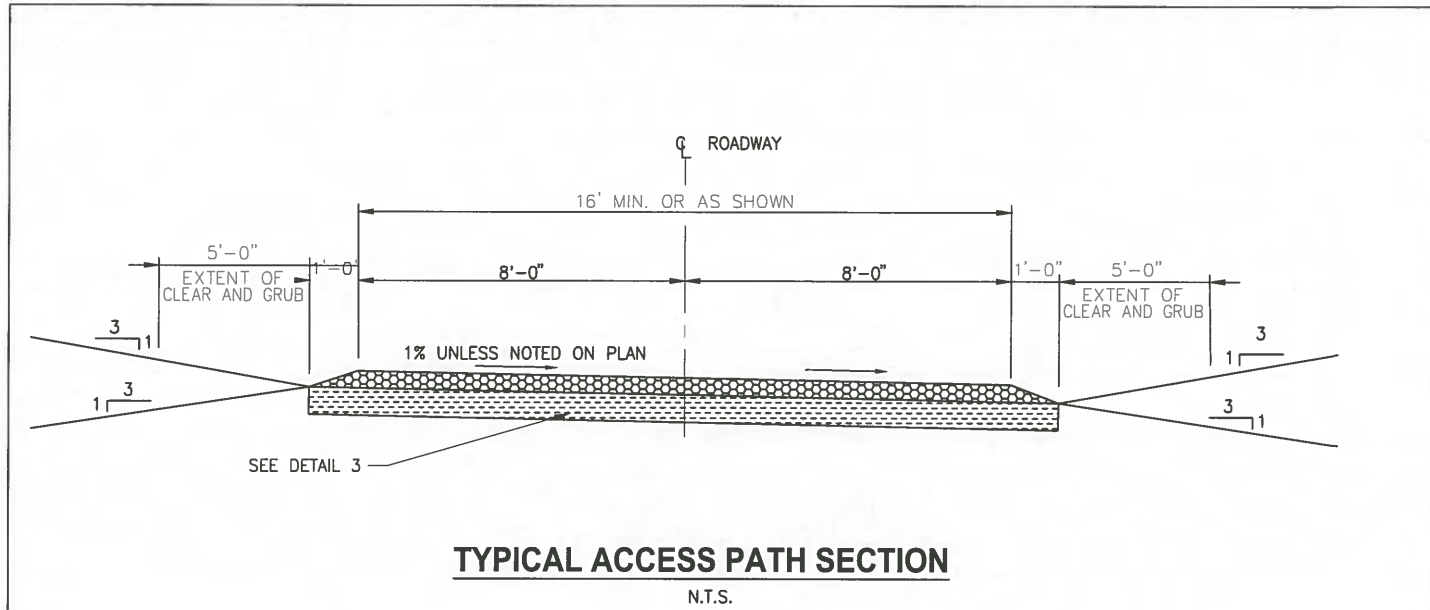


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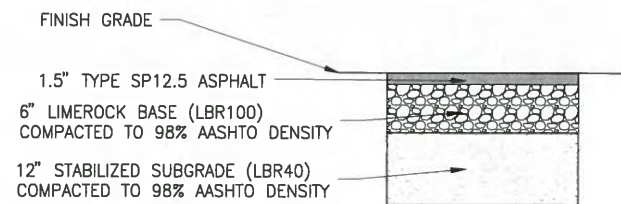
NOT FOR CONSTRUCTION

DESIGNED <u>W NICKEL</u> DRAWN <u>D HAUBRICH</u> CHECKED <u>R KOLLER</u>						CRANE CREEK M-1 CANAL FLOW RESTORATION ST. JOHN'S RIVER WATER MANAGEMENT DISTRICT		WEIR DETAILS		CERTIFICATE OF AUTHORIZATION #1841 APPROVED BY W. NICKEL P.E. # 68638		PROJECT NO: 19750-066-01		DATE: DEC 2019	
LTR. DATE REVISIONS BY APPRD.				730 NE WALDO ROAD, GAINESVILLE, FLORIDA 32641 / (352) 377-5821 8657 BAYPINE ROAD SUITE 300, JACKSONVILLE, FL 32256 / (904) 744-5401						INDEX NO: C5-7					

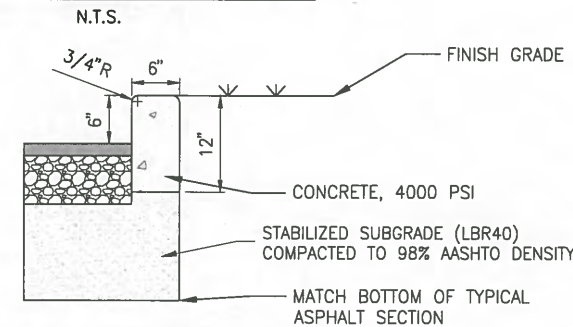
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DETAIL 1
C5-8

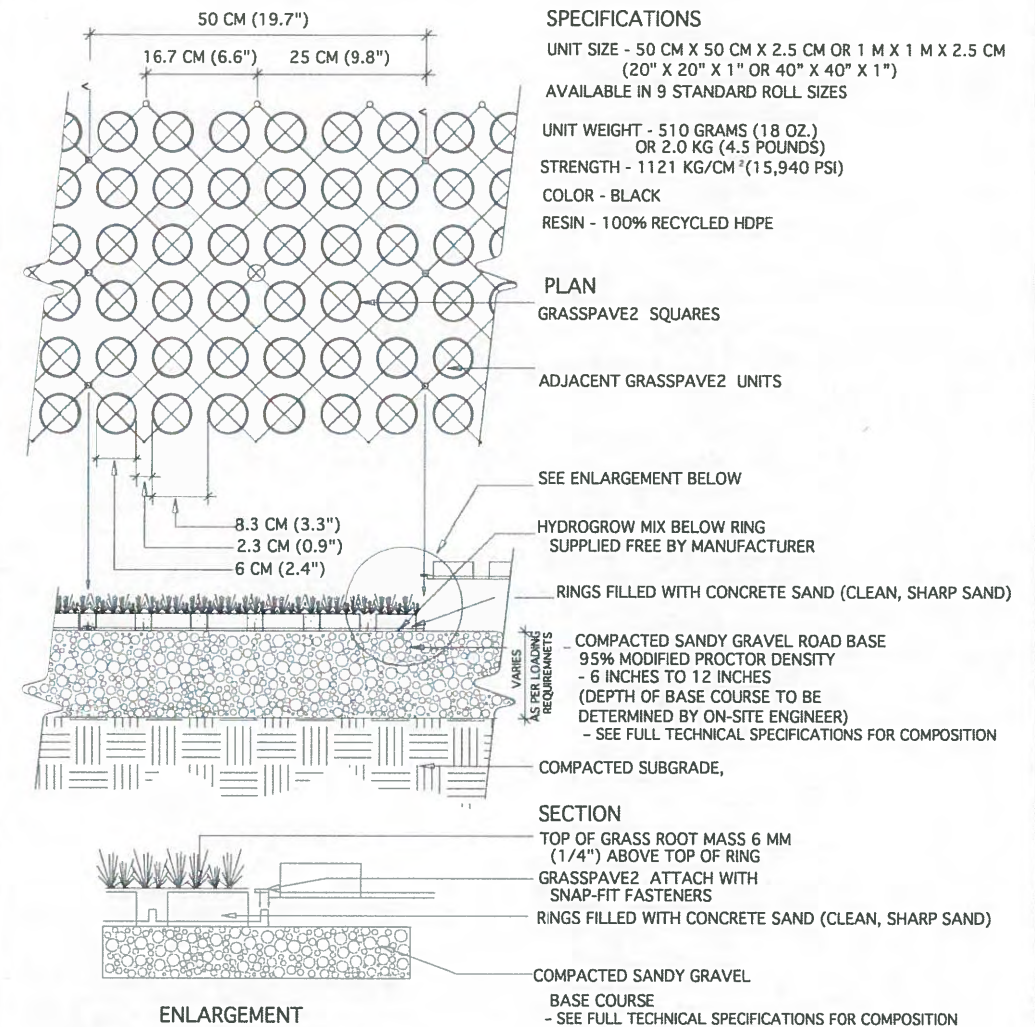


TYPICAL ASPHALT SECTION



TYPICAL CURB SECTION

DETAIL 2
C5-8



TYPICAL GRASSPAVE2 DETAIL

CHOOSE THIS PRODUCT FOR REINFORCING GRASS WEARING SURFACES

1
1 OF 1

NOT TO SCALE
Invisible Structures, Inc.
GPDET18.DWG

16265 E. 33RD DR., SUITE 20
AURORA, COLORADO 80011
800-233-1510 OR 303-233-8383
FAX: 800-233-1522 OR 303-233-8282
www.invisiblestructures.com
rev. 1/18

DETAIL 3
C5-8

WALTER ALBERT NICKEL
LICENSE
No. 68638
STATE OF FLORIDA
PROFESSIONAL ENGINEER

Walter Nickel

NOT FOR CONSTRUCTION

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DESIGNED	W NICKEL			
DRAWN	D HAUBRICH			
CHECKED	R KOLLER			
LTR.	DATE	REVISIONS	BY	APPRD.

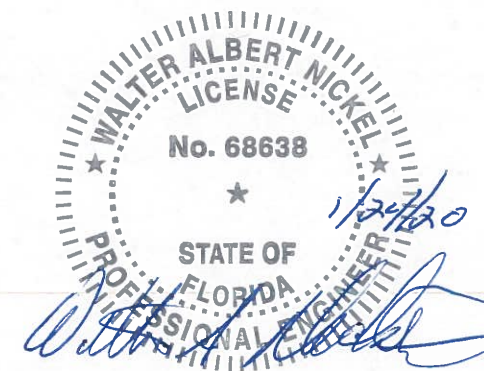
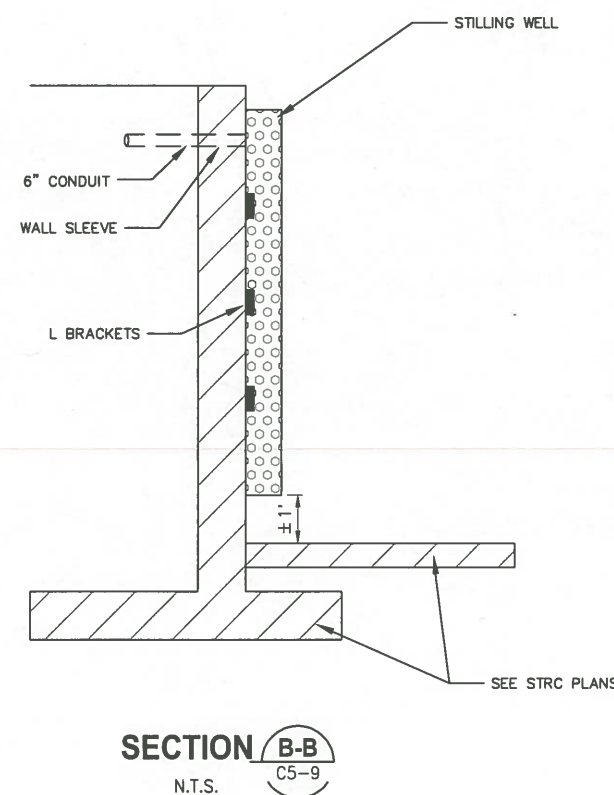
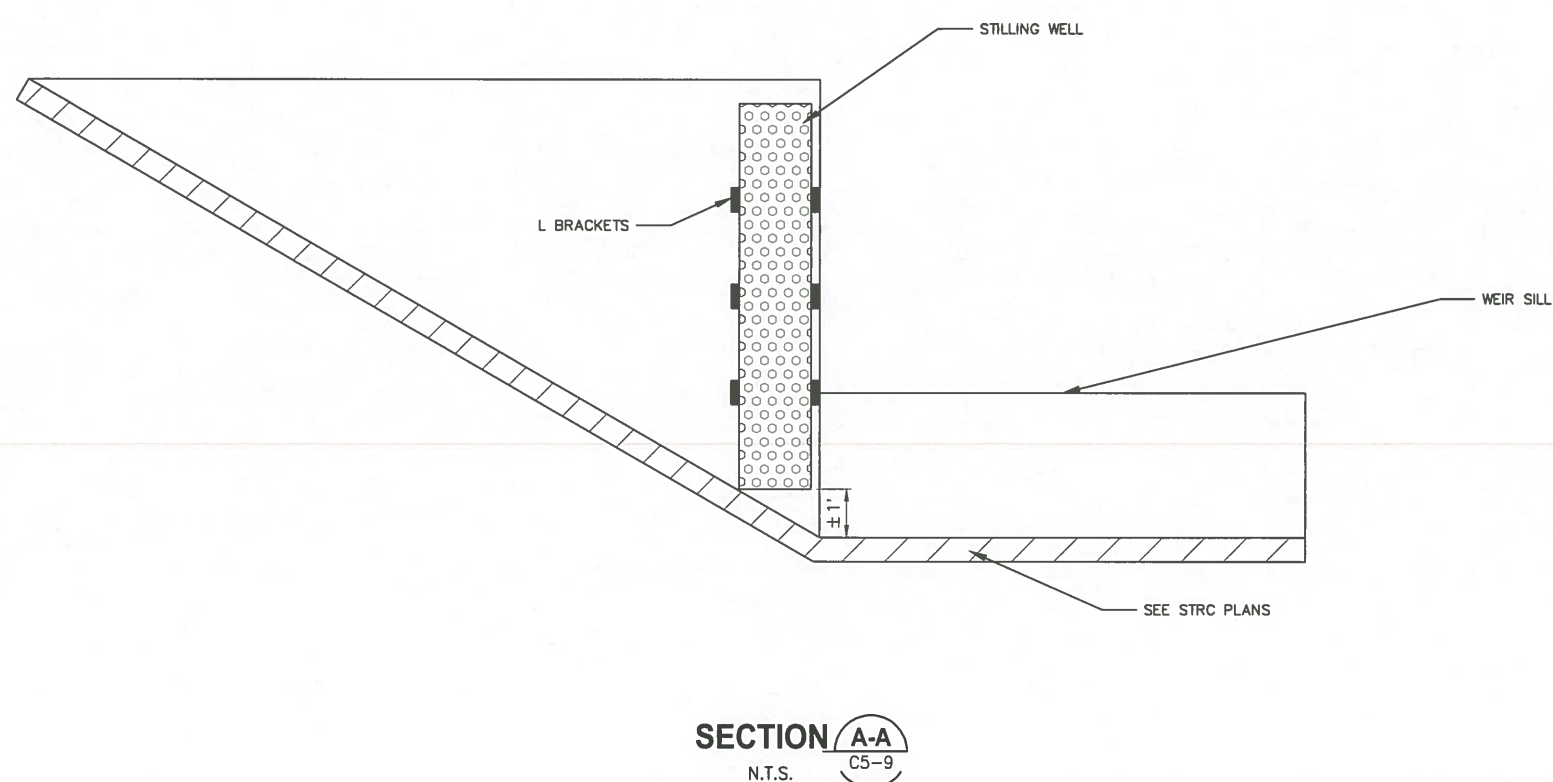
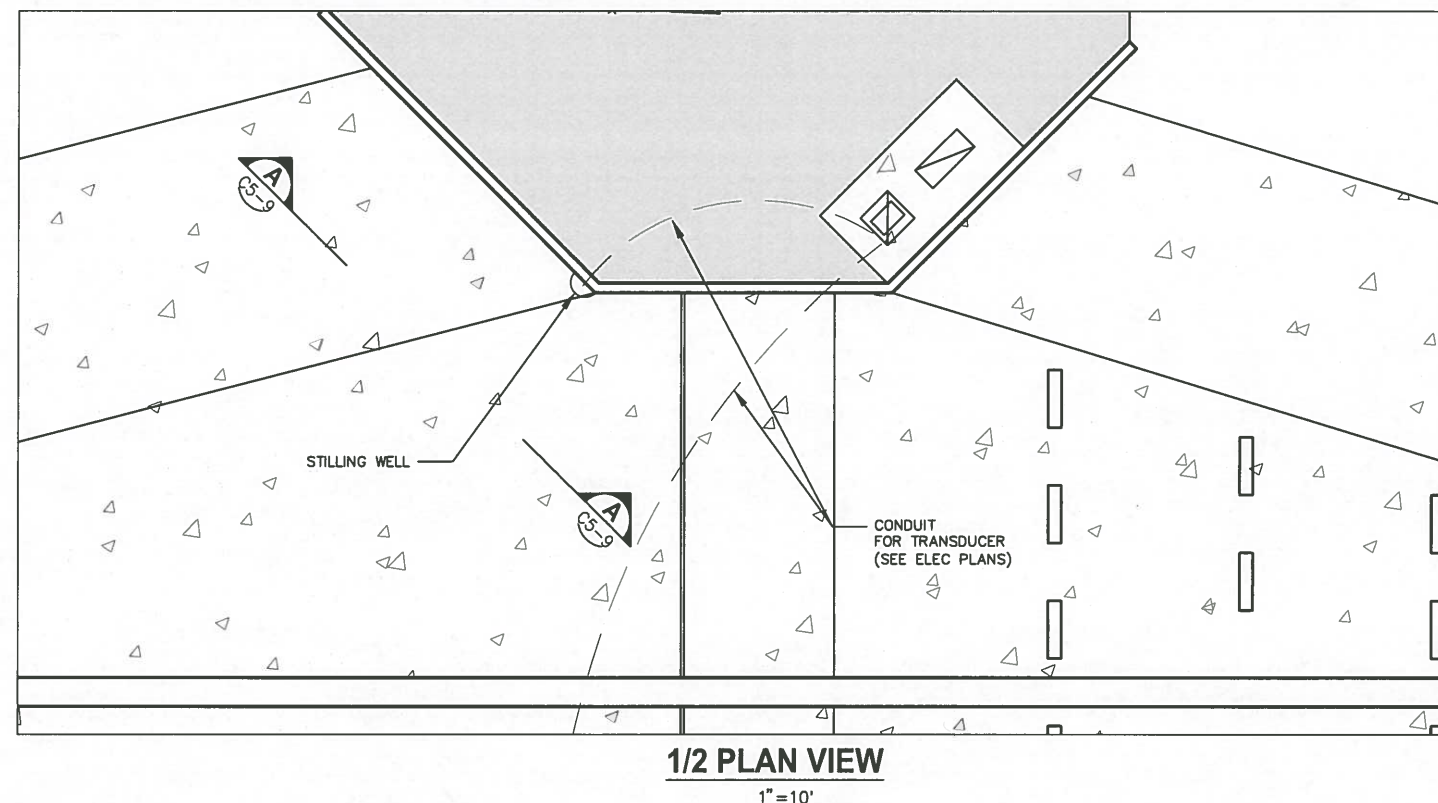
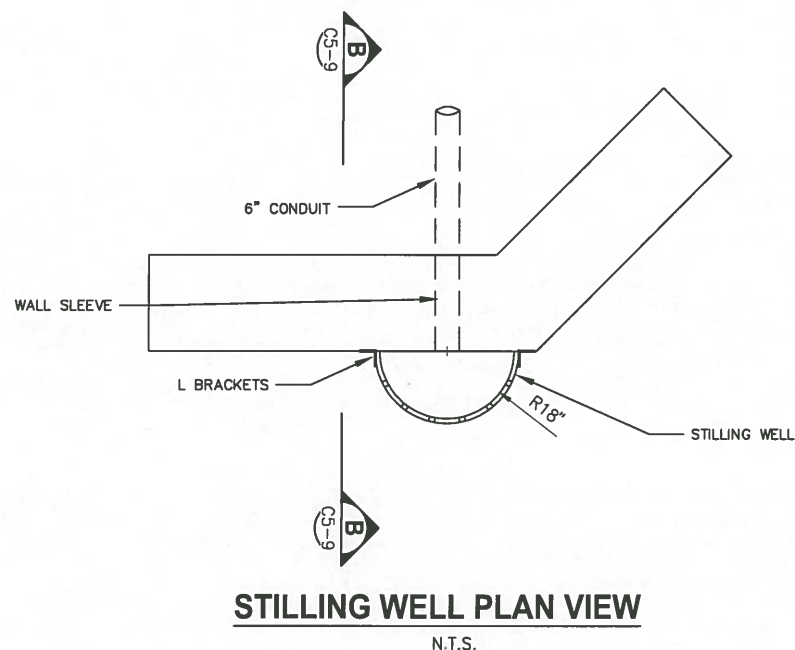
JonesEdmunds
CERTIFICATE OF AUTHORIZATION #1841
730 NE WALDO ROAD, GAINESVILLE, FLORIDA 32641 / (352) 377-5821
8657 BAYPINE ROAD SUITE 300, JACKSONVILLE, FL 32256 / (904) 744-5401

CRANE CREEK M-1 CANAL FLOW RESTORATION
ST. JOHN'S RIVER WATER MANAGEMENT DISTRICT

ACCESS DETAILS

CERTIFICATE OF AUTHORIZATION #1841	PROJECT NO:	DATE:
APPROVED BY	19750-066-01	DEC 2019
W. NICKEL	INDEX NO:	DWG NO:
P.E. # 68638		C5-8

PLOTTED: 1/20/2020 12:22 PM DEAN HAUBRICH



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DESIGNED	W NICKEL			
DRAWN	D HAUBRICH			
CHECKED	R KOLLER			
LTR.	DATE	REVISIONS	BY	APPRD.

JonesEdmunds
 CERTIFICATE OF AUTHORIZATION #1841
 730 NE WALDO ROAD, GAINESVILLE, FLORIDA 32641 / (352) 377-5821
 8657 BAYPINE ROAD SUITE 300, JACKSONVILLE, FL 32256 / (904) 744-5401

CRANE CREEK M-1 CANAL FLOW RESTORATION
ST. JOHN'S RIVER WATER MANAGEMENT DISTRICT

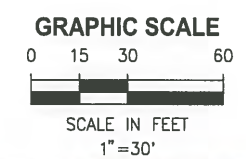
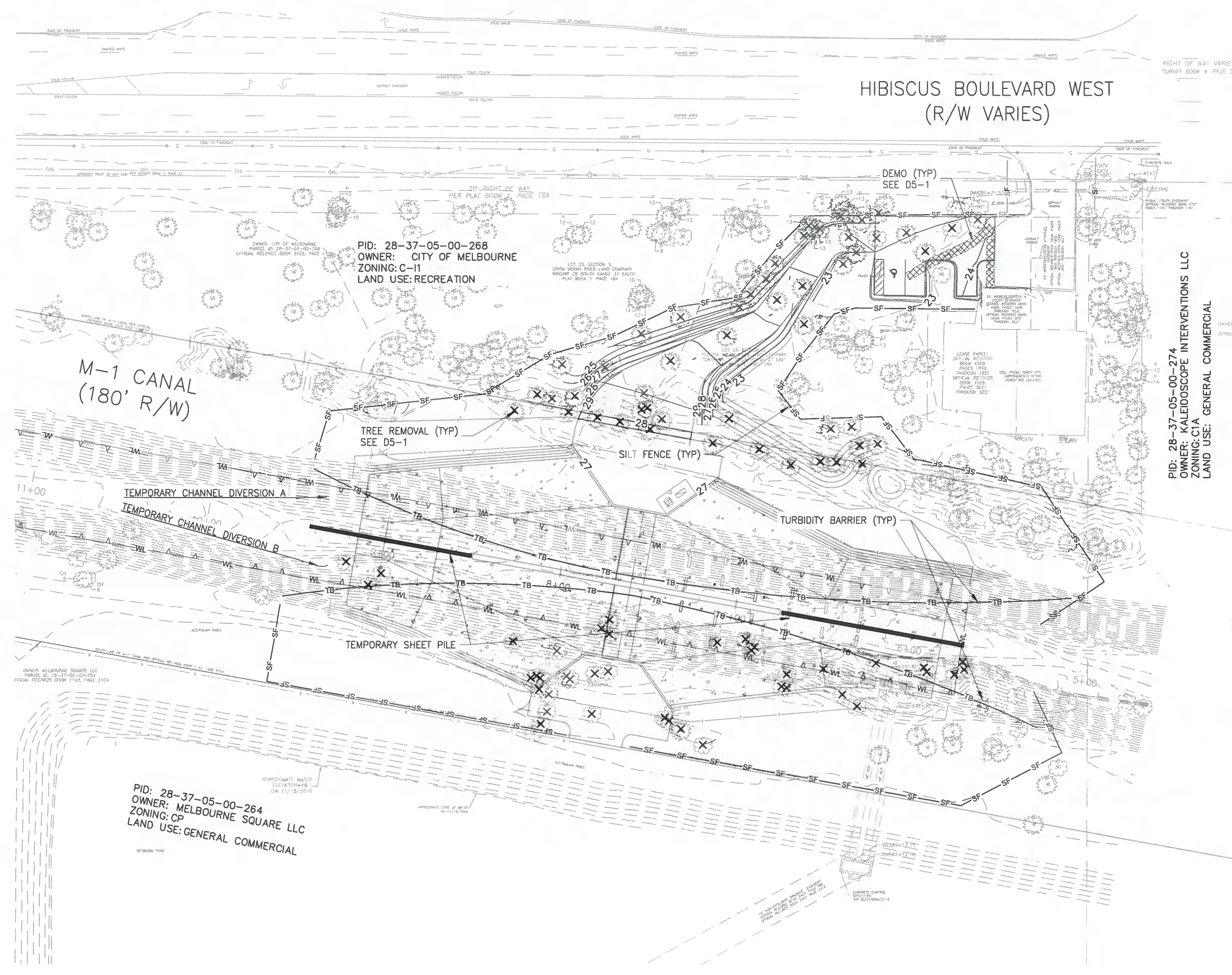
STILLING WELL DETAILS

CERTIFICATE OF AUTHORIZATION #1841	PROJECT NO:	DATE:
APPROVED BY	19750-066-01	DEC 2019
W. NICKEL	INDEX NO:	DWG NO:
P.E. # 68638		C5-9

PLOTTED: 1/20/2020 12:23 PM DEAN HAUBRICH

HIBISCUS BOULEVARD WEST
(R/W VARIES)

- NOTES:
- CONTRACTOR SHALL PREPARE A CONSTRUCTION PLAN INCORPORATING THE FOLLOWING:
 - SCHEDULE
 - MEANS AND METHODS
 - MAINTENANCE OF FLOW IN THE M-1 CANAL
 - EROSION CONTROL
 - DEWATERING
 - TURBIDITY CONTROL
 - THE PLAN SHALL BE SUBMITTED TO THE OWNER FOR REVIEW PRIOR TO MOBILIZING FOR CONSTRUCTION.
 - THE WIDENING OF THE CHANNEL ALLOWS THE WEIR TO BE CONSTRUCTED IN 2 SECTIONS. THE ALTERNATE SIDE MAY BE USED TO DIVERT THE FLOW OF THE M-1 CANAL AROUND THE ACTIVE WORK SITE.



NOT FOR CONSTRUCTION

SAVED: 11/22/2019 1:50 PM DHAUBRICH Y:\19750-SJRWMD\PROJECTS\066-01_CRANE_CREEK_M-1_FLOW_RESTORATION_DESIGN\CAD\DWGS\ENV\EC5-1.DWG

LTR.	DATE	REVISIONS	BY	APPRD.

DESIGNED	A GOODDEN
DRAWN	D HAUBRICH
CHECKED	R KOLLER

JonesEdmunds
 CERTIFICATE OF AUTHORIZATION #1841
 730 NE WALDO ROAD, GAINESVILLE, FLORIDA 32641 / (352) 377-5821
 8657 BAYPINE ROAD SUITE 300, JACKSONVILLE, FL 32256 / (904) 744-5401

CRANE CREEK M-1 CANAL FLOW RESTORATION
 ST. JOHN'S RIVER WATER MANAGEMENT DISTRICT

EROSION CONTROL PLAN - WEIR

CERTIFICATE OF AUTHORIZATION #1841	PROJECT NO:	DATE:
APPROVED BY	19750-066-01	DEC 2019
A. GOODDEN	INDEX NO:	DWG NO:
P.E. # 60097		EC5-1

PLOTTED: 1/20/2020 12:23 PM DEAN HAUBRICH

SAVED: 11/15/2019 4:26 PM ACOODDEN Y:\19750-SJRWMD\PROJECTS\066-01_CRANE_CREEK_M-1_FLOW_RESTORATION\DESIGN\CADDWG\ENV\EC5-2.DWG

NOT FOR CONSTRUCTION

CONTRACTOR REQUIREMENTS

SITE DESCRIPTION

PROJECT NAME(S) AND LOCATION:
CRANE CREEK M-1 CANAL FLOW RESTORATION, WEIR COUNTY: SECTIONS 03, TOWNSHIP 28S; RANGE 37E

PROPERTY OWNER AND PERMISSIONS:

THE WEIR CONSTRUCTION INVOLVES 3 PROPERTIES:
1) CITY OF MELBOURNE, MONPOLE PARK-EASEMENT TO SJRWMD
2) BREVARD COUNTY, M-1 CANAL RIGHT-OF-WAY, RIGHT-OF-WAY PERMIT.
3) MELBOURNE SQUARE MALL - EASEMENT TO SJRWMD.

DESCRIPTION:

THIS PROJECT WILL CONSIST OF:
THE CONSTRUCTION OF A NEW ACCESS DRIVEWAY, SHEETPILE, CONCRETE CANAL IMPROVEMENT, CONCRETE WEIR FOUNDATION, PNEUMATIC WEIR AND CONTROL SYSTEM, AND ASSOCIATED GRADING.

SOIL DISTURBING ACTIVITIES WILL INCLUDE:
CLEARING, GRUBBING; INSTALLING STABILIZED CONSTRUCTION ENTRANCE, PERIMETER, AND OTHER EROSION AND SEDIMENT CONTROLS; GRADING; EXCAVATION FOR CHANNEL IMPROVEMENTS, CONSTRUCTION OF ACCESS DRIVEWAY.

SOILS:
SEE GEOTECHNICAL REPORT FOR SOILS DATA.

SITE MAPS:

SEE ATTACHED GRADING PLAN FOR PRE & POST DEVELOPMENT GRADES, AREAS OF SOILS, DISTURBANCE, LOCATION OF SURFACE WATERS, WETLANDS, PROTECTED AREAS, MAJOR STRUCTURAL AND NONSTRUCTURAL CONTROLS AND STORM WATER DISCHARGE POINTS.

SEE ATTACHED EROSION & TURBIDITY CONTROL PLAN FOR LOCATION OF TEMPORARY STABILIZATION PRACTICES, AND TURBIDITY BARRIERS.

SEE GENERAL NOTES AND SPECIFICATIONS FOR REQUIREMENTS FOR TEMPORARY AND PERMANENT STABILIZATION.

SITE AREA:
TOTAL AREA OF SITE - 1.5 ACRES
TOTAL AREA TO BE DISTURBED - 1.10 ACRES

NAME OF RECEIVING WATERS:
M-1 CANAL TURBIDITY STANDARD < 29 NTU ABOVE BACKGROUND, UNLESS OTHERWISE SPECIFIED IN FDP OR USACE PERMITS.

FLOW
2.33 YR 8 HR PEAK HOURLY FLOW RATE 385 CFS AT 17.5 FT
100 YR 8 HR PEAK FLOW RATE = 596 CFS AT EL 19.6 FT
100 YR 24 HR PEAK FLOW RATE = 708 CFS AT EL 21.0 FT

CONTROLS

THIS PLAN UTILIZES BEST MANAGEMENT PRACTICES TO CONTROL EROSION AND TURBIDITY CAUSED BY STORM WATER RUN OFF, AN EROSION & TURBIDITY PLAN HAS BEEN PREPARED TO INSTRUCT THE CONTRACTOR ON PLACEMENT OF THESE CONTROLS. IT IS THE CONTRACTORS RESPONSIBILITY TO INSTALL AND MAINTAIN THE CONTROLS AS PER PLAN AS WELL AS ENSURING THE PLAN IS PROVIDING THE PROPER PROTECTION AS REQUIRED BY FEDERAL, STATE, AND LOCAL LAWS. REFER TO 'CONTRACTORS REQUIREMENTS' FOR A VERBAL DESCRIPTION OF THE CONTROLS THAT MAY BE IMPLEMENTED.

CERTIFICATION OF COMPLIANCE WITH FEDERAL, STATE, AND LOCAL REGULATIONS

IN AN EFFORT TO ENSURE COMPLIANCE WITH FEDERAL, STATE, AND LOCAL LAWS REGARDING EROSION AND TURBIDITY CONTROLS, THE FOLLOWING PERMITS HAVE BEEN OBTAINED.

FDEP ERP PERMIT	TBD
U.S.A.C.E. PERMIT	N/A

POLLUTION PREVENTION PLAN CERTIFICATION

I CERTIFY UNDER PENALTY OF LAW THAT THIS DOCUMENT AND ALL ATTACHMENTS WERE PREPARED UNDER MY DIRECTION OR SUPERVISION IN ACCORDANCE WITH A SYSTEM DESIGNED TO ASSURE THAT QUALIFIED PERSONNEL PROPERLY GATHERED AND EVALUATED THE INFORMATION SUBMITTED, BASED ON MY INQUIRY OF THE PERSON OR PERSONS WHO MANAGE THE SYSTEM, OR THOSE PERSONS DIRECTLY RESPONSIBLE FOR GATHERING THE INFORMATION, THE INFORMATION SUBMITTED IS, TO THE BEST OF MY KNOWLEDGE AND BELIEF, TRUE, ACCURATE, AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT FOR KNOWING VIOLATIONS.

SIGNED: _____
TITLE: _____
DATE: _____

TIMING OF CONTROLS/MEASURES

AS INDICATED IN THE SEQUENCE OF MAJOR ACTIVITIES, THE SILT FENCES, STABILIZED CONSTRUCTION ENTRANCE AND TURBIDITY CURTAIN WILL BE CONSTRUCTED PRIOR TO CLEARING OR GRADING OF ANY OTHER PORTIONS OF THE SITE. STABILIZATION MEASURES SHALL BE INITIATED AS SOON AS PRACTICAL IN PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITIES HAVE TEMPORARILY OR PERMANENTLY CEASED. ONCE CONSTRUCTION ACTIVITY CEASES PERMANENTLY IN ACCORDANCE WITH THE PLANS AND AFTER THE ENTIRE SITE IS STABILIZED, THE ACCUMULATED SEDIMENT WILL BE REMOVED FROM THE SEDIMENT TRAPS AND STABILIZED IN ACCORDANCE WITH THE SEDIMENT AND EROSION CONTROL PLAN.

GENERAL

THE CONTRACTOR SHALL PREPARE A DETAILED CONSTRUCTION SCHEDULE WHICH MAINTAINS THE FLOW IN THE M-1 CANAL. THE CONSTRUCTION SCHEDULE SHALL SHOW THE MAINTENANCE OF FLOW, CONSTRUCTION MEANS AND METHODS AND THE EROSION AND TURBIDITY CONTROL PLAN. IN ADDITION THE CONTRACTOR SHALL UNDERTAKE ADDITIONAL MEASURES REQUIRED TO BE IN COMPLIANCE WITH STATE WATER QUALITY STANDARDS AND PERMIT CONDITIONS.

SEQUENCE OF MAJOR ACTIVITIES

1. SUBMIT DETAILED PLAN TO MAIN FLOW, CONSTRUCT WEIR, AND CONTROL EROSION AND TURBIDITY.	11. CONSTRUCT WEIR FOUNDATION AND CONCRETE CHANNEL.
2. COMPLETE AND SUBMIT NOTICE OF INTENT (NOI) TO FDP.	12. INSTALL WEIR PANEL.
3. INSPECT AND DOCUMENT CONDITION OF MONPOLE PARK, M-1 CANAL, MELBOURNE SQUARE MALL PROPERTY.	13. DIVERT M-1 THROUGH COMPLETED WORK OF WEIR CHANNEL.
4. INSTALL STABILIZED CONSTRUCTION ENTRANCES AND PERIMETER CONTROLS.	14. CONSTRUCT SECOND WEIR FOUNDATION AND CONCRETE CHANNEL.
5. INSTALL SHEET PILE CENTER WALL.	15. WHEN CHANNEL IMPROVEMENTS AND WEIR CONSTRUCTION ACTIVITY IS COMPLETE, LOOSEN SOIL ALONG ACCESS ROAD.
6. INSTALL SHEET PILE GRADE CONTROL.	16. INSTALL GRASSPAVE AND FINAL STABILIZATION FOR ACCESS ROAD.
7. INSTALL TURBIDITY CURTAIN, AND EXCAVATE TEMPORARY DIVERSION CHANNEL.	17. WHEN ALL CONSTRUCTION ACTIVITY IS COMPLETE AND THE SITE IS STABILIZED, REMOVE ANY TEMPORARY DIVERSION SWALES/DIKES AND RESEED/SOD AS REQUIRED.
8. STOCKPILE TOP SOIL AS REQUIRED.	18. COMPLETE AND SUBMIT NOTICE OF TERMINATION (NOT) TO FDP.
9. STABILIZE CLEARED AREAS AND STOCKPILES AS SOON AS PRACTICABLE.	

10. DIVERT M-1 CANAL

CONTROLS

IT IS THE CONTRACTORS RESPONSIBILITY TO DEVELOP THE EROSION AND TURBIDITY CONTROLS SPECIFIC TO THEIR SCHEDULE AND METHODS OF CONSTRUCTION. IT IS ALSO THE CONTRACTORS RESPONSIBILITY TO ENSURE THESE CONTROLS ARE PROPERLY INSTALLED, MAINTAINED AND FUNCTIONING PROPERLY TO PREVENT TURBID OR POLLUTED WATER FROM LEAVING THE PROJECT SITE. THE CONTRACTOR WILL ADJUST THE EROSION CONTROL PLAN AND ADD ADDITIONAL CONTROL MEASURES, AS REQUIRED, TO ENSURE THE SITE MEETS ALL FEDERAL, STATE AND LOCAL EROSION AND SEDIMENT CONTROL PLAN AND AS REQUIRED TO MEET THE SEDIMENT AND TURBIDITY REQUIREMENTS IMPOSED ON THE PROJECT SITE BY THE REGULATORY AGENCIES.

EROSION AND SEDIMENT CONTROLS

STABILIZATION PRACTICES

1. FILTER FABRIC BARRIER: FILTER FABRIC BARRIERS CAN BE USED BELOW DISTURBED AREAS SUBJECT TO SHEET AND RILL EROSION WITH THE FOLLOWING LIMITATIONS:
A. WHERE THE MAXIMUM SLOPE BEHIND THE BARRIER IS 33 PERCENT.
B. IN MINOR SWALES OR DITCH LINES WHERE THE MAXIMUM CONTRIBUTING DRAINAGE AREA IS NO GREATER THAN 2.0 ACRES.
2. BRUSH BARRIER WITH FILTER FABRIC: BRUSH BARRIER MAY BE USED BELOW DISTURBED AREAS SUBJECT TO SHEET AND RILL EROSION WHERE ENOUGH RESIDUE MATERIAL IS AVAILABLE ON SITE.
3. LEVEL SPREADER: A LEVEL SPREADER MAY BE USED WHERE SEDIMENT-FREE STORM RUNOFF IS INTERCEPTED AND DIVERTED AWAY FROM THE GRADED AREAS ONTO UNDISTURBED STABILIZED AREAS. THIS PRACTICE APPLIES ONLY IN THOSE SITUATIONS WHERE THE SPREADER CAN BE CONSTRUCTED ON UNDISTURBED SOIL AND THE AREA BELOW THE LEVEL UP IS STABILIZED. THE WATER SHOULD NOT BE ALLOWED TO RECONCENTRATE AFTER RELEASE.
4. STOCKPILING MATERIAL: NO EXCAVATED MATERIAL SHALL BE STOCKPILED IN SUCH A MANNER AS TO DIRECT RUNOFF DIRECTLY OFF THE PROJECT SITE INTO ANY ADJACENT WATER BODY OR STORM WATER COLLECTION FACILITY.
5. EXPOSED AREA LIMITATION: THE SURFACE AREA OF OPEN, ERODIBLE SOIL EXPOSED BY CLEARING GRUBBING OPERATIONS OR EXCAVATION AND FILLING OPERATIONS SHALL NOT EXCEED 2.0 ACRES. THIS REQUIREMENT MAY BE WAIVED BY THE OWNER WITH A DETAILED EROSION CONTROL PLAN PREPARED BY THE CONTRACTOR. THE DETAILED PLAN MUST INCLUDE A SCHEDULE, DESCRIPTION OF CONSTRUCTION MEANS AND METHODS AND EROSION CONTROL MANAGEMENT PRACTICES WHICH DEMONSTRATES THAT OPENING OF ADDITIONAL AREA WILL NOT SIGNIFICANTLY AFFECT OFF-SITE DEPOSIT OF SEDIMENTS.
6. TEMPORARY SEEDING: AREAS OPENED BY CONSTRUCTION OPERATIONS AND THAT ARE NOT ANTICIPATED TO BE RE-EXCAVATED OR DRESSED AND RECEIVE FINAL GRASSING TREATMENT WITHIN 21 DAYS SHALL BE SEEDDED WITH A QUICK GROWING GRASS. SPECIES WHICH WILL PROVIDE AN EARLY COVER DURING THE SEASON IN WHICH IT IS PLANTED AND WILL NOT LATER COMPETE WITH THE PERMANENT GRASSING.

INVENTORY FOR POLLUTION PREVENTION PLAN

THE MATERIAL OR SUBSTANCES LISTED BELOW ARE EXPECTED TO BE PRESENT ONSITE DURING CONSTRUCTION:

CONCRETE	FERTILIZERS	WOOD
DETERGENTS	PETROLEUM BASED PRODUCTS	
	CLEANING SOLVENTS	
	PAINTS	

7. TURBIDITY BARRIER SHALL BE USED TO MINIMIZE TURBIDITY CAUSED BY EROSION DURING EXCAVATION ALONG THE BANK OF THE M-1 CANAL. TURBIDITY CURTAIN SHALL BE INSTALLED PARALLEL TO THE FLOW OF MOVING WATER IN ACCORDANCE WITH MANUFACTURERS INSTALLATION INSTRUCTIONS.
8. DEWATER AS NEEDED DIRECTING WATER TO DOWNSTREAM STABILIZED SECTIONS OF THE CANAL. TURBIDITY CONTROLS MEASURES SUCH AS JUTE Baffles WITH POLYACRYLAMIDE MAY BE USED.
9. TEMPORARY REGRASSING: IF, AFTER 14 DAYS FROM SEEDING, THE TEMPORARY GRASSED AREAS HAVE NOT MAINTAINED A MINIMUM OF 75 PERCENT GOOD GRASS COVER, THE AREA WILL BE REWORKED AND ADDITIONAL SEED APPLIED SUFFICIENT TO ESTABLISH THE DESIRED VEGETATIVE COVER.
10. MAINTENANCE: ALL FEATURES OF THE PROJECT DESIGNED AND CONSTRUCTED TO PREVENT EROSION AND SEDIMENT SHALL BE MAINTAINED DURING THE LIFE OF THE CONSTRUCTION SO AS TO FUNCTION AS THEY WERE ORIGINALLY DESIGNED AND CONSTRUCTED.
11. PERMANENT EROSION CONTROL: THE EROSION CONTROL FACILITIES OF THE PROJECT SHOULD BE DESIGNED TO MINIMIZE THE IMPACT ON THE OFFSITE FACILITIES.
12. PERMANENT SODDING: ALL AREAS WHICH HAVE BEEN DISTURBED BY CONSTRUCTION WILL BE SODDED.

STRUCTURAL PRACTICES

1. TEMPORARY CHANNEL DIVERSION: TEMPORARY CHANNEL DIVERSION SHALL BE USED TO DIVERT M-1 CANAL AROUND THE ACTIVE WORK ZONE.

SPILL CONTROL PRACTICES

IN ADDITION TO THE GOOD HOUSEKEEPING AND MATERIAL MANAGEMENT PRACTICES DISCUSSED IN THE PREVIOUS SECTIONS OF THIS PLAN, THE FOLLOWING PRACTICES WILL BE FOLLOWED FOR SPILL PREVENTION AND CLEANUP:

MANUFACTURERS' RECOMMENDED METHODS FOR SPILL CLEANUP WILL BE CLEARLY POSTED ON SITE AND SITE PERSONNEL WILL BE MADE AWARE OF THE METHODS AND POSTED LOCATION.

MATERIALS AND EQUIPMENT NECESSARY FOR SPILL CLEANUP WILL BE KEPT IN THE MATERIAL STORAGE AREA ONSITE. EQUIPMENT AND MATERIALS WILL INCLUDE, BUT NOT BE LIMITED TO BROOMS, DUST PANS, MOPS, RAGS, GLOVES, GOGGLES, LIQUID ABSORBENT (I.E. KITTY LITTER OR EQUAL), SAND SAWDUST, AND PLASTIC AND METAL TRASH CONTAINERS SPECIFICALLY FOR THIS PURPOSE.

ALL SPILLS WILL BE CLEANED UP IMMEDIATELY AFTER DISCOVERY.

THE SPILL AREA WILL BE KEPT WELL VENTILATED AND PERSONNEL WILL WEAR APPROPRIATE PROTECTIVE CLOTHING TO PREVENT INJURY FROM CONTACT WITH A HAZARDOUS SUBSTANCE.

SPILL OF TOXIC OR HAZARDOUS MATERIAL WILL BE REPORTED IMMEDIATELY TO THE OWNER.

THE SPILL PREVENTION PLAN WILL BE ADJUSTED TO INCLUDE MEASURES TO PREVENT THIS TYPE OF SPILL FROM REOCCURRING AND HOW TO CLEAN UP THE SPILL IF THERE IS ANOTHER ONE. A DESCRIPTION OF THE SPILL, WHAT CAUSED IT, AND THE CLEANUP MEASURES WILL ALSO BE INCLUDED.

THE SITE SUPERINTENDENT RESPONSIBLE FOR THE DAY-TO-DAY SITE OPERATIONS, WILL BE THE SPILL PREVENTION AND CLEANUP COORDINATOR. HE/SHE WILL DESIGNATE AT LEAST ONE OTHER SITE PERSONNEL WHO WILL RECEIVE SPILL PREVENTION AND CLEANUP TRAINING. THESE INDIVIDUALS WILL EACH BECOME RESPONSIBLE FOR A PARTICULAR PHASE OF PREVENTION AND CLEANUP, THE NAMES OF RESPONSIBLE SPILL PERSONNEL WILL BE POSTED IN THE MATERIAL STORAGE AREA AND IF APPLICABLE, IN THE OFFICE TRAILER ONSITE.



SPILL PREVENTION

MATERIAL MANAGEMENT PRACTICES

THE FOLLOWING ARE THE MATERIAL MANAGEMENT PRACTICES THAT WILL BE USED TO REDUCE THE RISK OF SPILLS OR OTHER ACCIDENTAL EXPOSURE OF MATERIALS AND SUBSTANCES TO STORM WATER RUNOFF.

GOOD HOUSEKEEPING

THE FOLLOWING GOOD HOUSEKEEPING PRACTICES WILL BE FOLLOWED ONSITE DURING THE CONSTRUCTION PROJECT.

AN EFFORT WILL BE MADE TO STORE ONLY ENOUGH PRODUCT REQUIRED TO DO THE JOB.

ALL MATERIALS STORED ONSITE WILL BE STORED IN A NEAT, ORDERLY MANNER IN THEIR APPROPRIATE CONTAINERS AND, IF POSSIBLE, UNDER A ROOF OR OTHER ENCLOSURE.

PRODUCTS WILL BE KEPT IN THEIR ORIGINAL CONTAINERS WITH THE ORIGINAL MANUFACTURER'S LABEL.

SUBSTANCES WILL NOT BE MIXED WITH ONE ANOTHER UNLESS RECOMMENDED BY THE MANUFACTURER.

WHENEVER POSSIBLE, ALL OF A PRODUCT WILL BE USED UP BEFORE DISPOSING OF THE CONTAINER.

MANUFACTURER'S RECOMMENDATIONS FOR PROPER USE AND DISPOSAL WILL BE FOLLOWED.

HAZARDOUS PRODUCTS

THESE PRACTICES ARE USED TO REDUCE THE RISKS ASSOCIATED WITH HAZARDOUS MATERIALS.

PRODUCTS WILL BE KEPT IN ORIGINAL CONTAINERS UNLESS THEY ARE NOT RESEALABLE.

ORIGINAL LABELS AND MATERIAL SAFETY DATA WILL BE RETAINED; THEY CONTAIN IMPORTANT PRODUCT INFORMATION.

IF SURPLUS PRODUCT MUST BE DISPOSED OF MANUFACTURER'S OR LOCAL AND STATE RECOMMENDED METHODS FOR PROPER DISPOSAL WILL BE FOLLOWED.

PRODUCT SPECIFIC PRACTICES

THE FOLLOWING PRODUCT SPECIFIC PRACTICES WILL BE FOLLOWED ONSITE:

PETROLEUM PRODUCTS

ALL ONSITE VEHICLES WILL BE MONITORED FOR LEAKS AND RECEIVE REGULAR PREVENTATIVE MAINTENANCE TO REDUCE THE CHANCE OF LEAKAGE. PETROLEUM PRODUCTS WILL BE STORED IN TIGHTLY SEALED CONTAINERS WHICH ARE CLEARLY LABELED. ANY ASPHALT SUBSTANCES USED ONSITE WILL BE APPLIED ACCORDING TO THE MANUFACTURER'S RECOMMENDATIONS.

FERTILIZERS

FERTILIZERS USED WILL BE APPLIED ONLY IN THE MINIMUM AMOUNTS RECOMMENDED BY THE MANUFACTURER. ONCE APPLIED, FERTILIZER WILL BE WORKED INTO THE SOIL TO LIMIT EXPOSURE TO STORM WATER. STORAGE WILL BE IN A COVERED AREA. THE CONTENTS OF ANY PARTIALLY USED BAGS OF FERTILIZER WILL BE TRANSFERRED TO A SEALABLE PLASTIC BIN TO AVOID SPILLS.

PAINTS

ALL CONTAINERS WILL BE TIGHTLY SEALED AND STORED WHEN NOT REQUIRED FOR USE. EXCESS PAINT WILL NOT BE DISCHARGED TO THE STORM SEWER SYSTEM BUT WILL BE PROPERLY DISPOSED OF ACCORDING TO MANUFACTURERS' INSTRUCTIONS OR STATE AND LOCAL REGULATIONS.

CONCRETE TRUCKS

CONCRETE TRUCKS WILL NOT BE ALLOWED TO WASH OUT OR DISCHARGE SURPLUS CONCRETE OR DRUM WASH WATER TO DITCHES, PONDS OR OTHER WATERWAYS. WASHWATER SHALL BE COLLECTED IN A TEMPORARY SETTLING POND.

OTHER CONTROLS

WASTE DISPOSAL

WASTE MATERIALS

ALL WASTE MATERIALS EXCEPT LAND CLEARING DEBRIS SHALL BE COLLECTED AND STORED IN A METAL DUMPSTER. THE DUMPSTER WILL MEET ALL LOCAL AND STATE SOLID WASTE MANAGEMENT REGULATIONS. THE DUMPSTER WILL BE EMPLOYED AS NEEDED AND THE TRASH WILL BE HAULED TO A STATE APPROVED LANDFILL. ALL PERSONNEL WILL BE INSTRUCTED REGARDING THE CORRECT PROCEDURE FOR WASTE DISPOSAL. NOTICES STATING THESE PRACTICES WILL BE POSTED AT THE CONSTRUCTION SITE BY THE CONSTRUCTION SUPERINTENDENT, THE INDIVIDUAL WHO MANAGES THE DAY-TO-DAY SITE OPERATIONS, WILL BE RESPONSIBLE FOR SEEING THAT THESE PROCEDURES ARE FOLLOWED.

HAZARDOUS WASTE

ALL HAZARDOUS WASTE MATERIALS WILL BE DISPOSED OF IN THE MANNER SPECIFIED BY LOCAL OR STATE REGULATION OR BY THE MANUFACTURER. SITE PERSONNEL WILL BE INSTRUCTED IN THESE PRACTICES AND THE SITE SUPERINTENDENT, THE INDIVIDUAL WHO MANAGES DAY-TO-DAY SITE OPERATIONS, WILL BE RESPONSIBLE FOR SEEING THAT THESE PRACTICES ARE FOLLOWED.

SANITARY WASTE

ALL SANITARY WASTE WILL BE COLLECTED FROM THE PORTABLE UNITS AS NEEDED TO PREVENT POSSIBLE SPILLAGE. THE WASTE WILL BE COLLECTED AND DISPOSED OF IN ACCORDANCE WITH STATE AND LOCAL WASTE DISPOSAL REGULATIONS FOR SANITARY SEWER OR SEPTIC SYSTEMS.

OFFSITE VEHICLE TRACKING

A STABILIZED CONSTRUCTION ENTRANCE WILL BE PROVIDED TO HELP REDUCE VEHICLE TRACKING OF SEDIMENTS. DUMP TRUCKS HAULING MATERIAL FROM THE CONSTRUCTION SITE WILL BE COVERED WITH A TARP.

MAINTENANCE/INSPECTION PROCEDURES

EROSION AND SEDIMENT CONTROL INSPECTION AND MAINTENANCE PRACTICES

THE FOLLOWING ARE INSPECTION AND MAINTENANCE PRACTICES THAT WILL BE USED TO MAINTAIN EROSION AND SEDIMENT CONTROLS.

NO MORE THAN 0.5 ACRES OF THE SITE WILL BE CLEARED AT ONE TIME WITHOUT WRITTEN PERMISSION FROM THE ENGINEER.

ALL CONTROL MEASURES WILL BE INSPECTED BY A CERTIFIED SUPERINTENDENT, THE PERSON RESPONSIBLE FOR THE DAY-TO-DAY SITE OPERATION OR SOMEONE APPOINTED BY THE SUPERINTENDENT, AT LEAST ONCE A WEEK AND WITHIN 24 HOURS OF THE END OF ANY STORM EVENT OF 1/2" OR GREATER.

ALL TURBIDITY CONTROL MEASURES WILL BE MAINTAINED IN GOOD WORKING ORDER; IF A REPAIR IS NECESSARY, IT WILL BE INITIATED WITHIN 24 HOURS OF REPORT.

BUILT UP SEDIMENT WILL BE REMOVED FROM SILT FENCE WHEN IT HAS REACHED ONE-THIRD THE HEIGHT OF THE FENCE.

SILT FENCE WILL BE INSPECTED FOR DEPTH OF SEDIMENT, TEARS, TO SEE IF THE FABRIC IS SECURELY ATTACHED TO THE FENCE POSTS, AND TO SEE THAT THE FENCE POSTS ARE FIRMLY IN THE GROUND.

CONSTRUCTION ENTRANCES WILL BE INSPECTED FOR DEPTH OF CRUSHED STONE BED AND FILTER FABRIC CONDITION. THE BED SHALL HAVE A 6" THICKNESS AND THE FILTER FABRIC SHALL BE FREE OF TEARS AND FIRMLY SECURE. ENTRANCES SHALL BE REMOVED PRIOR TO CONSTRUCTION OF DRIVEWAYS.

THE SEDIMENT BASINS WILL BE INSPECTED FOR DEPTH OF SEDIMENT, AND BUILT UP SEDIMENT WILL BE REMOVED WHEN IT REACHES 10 PERCENT OF THE DESIGN CAPACITY OR AT THE END OF THE JOB.

DIVERSION DIKES/SWALES WILL BE INSPECTED AND ANY BREACHES PROMPTLY REPAIRED.

TEMPORARY AND PERMANENT SEEDING AND PLANTING WILL BE INSPECTED FOR BARE SPOTS, WASHOUTS, AND HEALTHY GROWTH.

A MAINTENANCE INSPECTION REPORT WILL BE MADE AFTER EACH INSPECTION. COPY OF THE REPORT FORM TO BE COMPLETED BY THE INSPECTOR IS ATTACHED. THE REPORTS WILL BE KEPT ON SITE DURING CONSTRUCTION AND AVAILABLE UPON REQUEST TO THE OWNER, ENGINEER OR ANY FEDERAL, STATE, AND LOCAL AGENCY APPROVING SEDIMENT AND EROSION PLANS, OR STORM WATER MANAGEMENT PLANS. THE REPORTS SHALL BE MADE AND RETAINED AS PART OF THE STORM WATER POLLUTION PREVENTION PLAN FOR AT LEAST THREE YEARS FROM THE DATE THAT THE SITE IS FINALLY STABILIZED AND THE NOTICE OF TERMINATION IS SUBMITTED. THE REPORTS SHALL IDENTIFY ANY INCIDENTS OF NON-COMPLIANCE.

THE SITE SUPERINTENDENT WILL SELECT UP TO THREE CERTIFIED INDIVIDUALS WHO WILL BE RESPONSIBLE FOR INSPECTIONS, MAINTENANCE AND REPAIR ACTIVITIES, AND FILLING OUT THE INSPECTION AND MAINTENANCE REPORT.

PERSONNEL SELECTED FOR INSPECTION AND MAINTENANCE RESPONSIBILITIES WILL RECEIVE TRAINING FROM THE SITE SUPERINTENDENT AND MUST ENFORCE THE FDP NPDES SWPPP FOR THIS PROJECT. THEY WILL BE INCLUDED IN ALL THE INSPECTION AND MAINTENANCE PRACTICES NECESSARY FOR KEEPING THE EROSION AND SEDIMENT CONTROLS USED ONSITE IN GOOD WORKING ORDER.

NON-STORM WATER DISCHARGES

IT IS EXPECTED THAT THE FOLLOWING NON-STORM WATER DISCHARGES WILL OCCUR FROM THE SITE DURING THE CONSTRUCTION PERIOD.

UNCONTAMINATED GROUNDWATER (FROM DEWATERING EXCAVATION).

ALL NON-STORM WATER DISCHARGES WILL BE DIRECTED TO THE SEDIMENT BASIN OR OTHER APPROPRIATE AREA PRIOR TO DISCHARGE TO EXISTING DITCHES OR WETLANDS.

CONTRACTORS CERTIFICATION

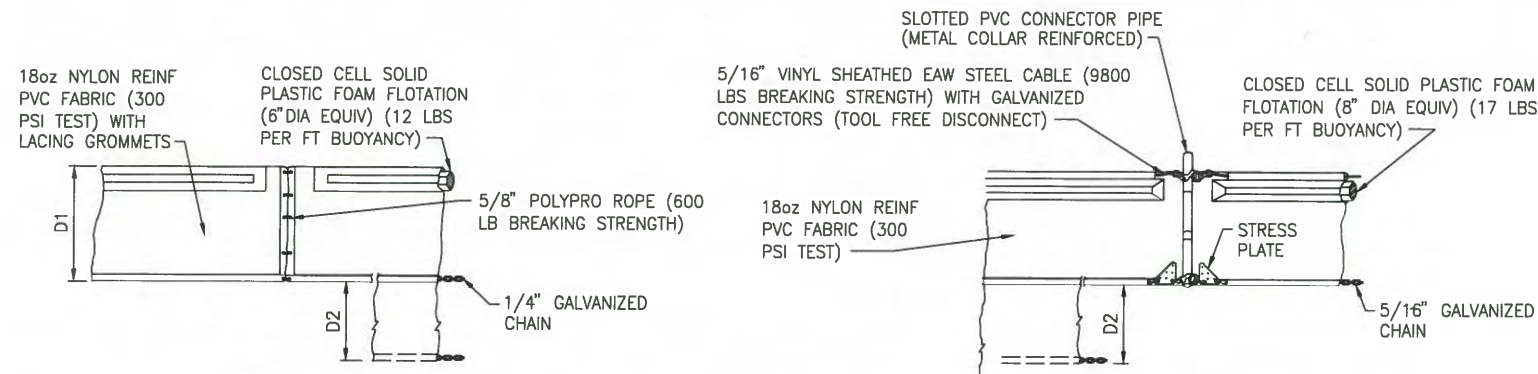
I CERTIFY UNDER PENALTY OF LAW THAT I UNDERSTAND THE TERMS AND CONDITIONS OF THE GENERAL NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) PERMIT THAT AUTHORIZES THE STORM WATER DISCHARGES ASSOCIATED WITH CONSTRUCTION ACTIVITY FROM THE SITE IDENTIFIED AS PART OF THIS CERTIFICATION.

SIGNATURE: _____ BUSINESS NAME & ADDRESS OF CONTRACTOR, ALL SUBS RESPONSIBLE FOR/DUTIES GENERAL CONTRACTOR

_____ SUBCONTRACTOR

<table border="1"> <thead> <tr><th>LTR.</th><th>DATE</th><th>REVISIONS</th><th>BY</th><th>APPROD</th></tr> </thead> <tbody> <tr><td></td><td></td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td></td><td></td><td></td></tr> </tbody> </table>	LTR.	DATE	REVISIONS	BY	APPROD																<table border="0"> <tr> <td>DESIGNED</td><td>A GOODDEN</td> </tr> <tr> <td>DRAWN</td><td>D HAUBRICH</td> </tr> <tr> <td>CHECKED</td><td>R KOLLER</td> </tr> </table>	DESIGNED	A GOODDEN	DRAWN	D HAUBRICH	CHECKED	R KOLLER	<p>JonesEdmunds</p> <p>CERTIFICATE OF AUTHORIZATION #1841 730 NE WALDO ROAD, GAINESVILLE, FLORIDA 32641 / (352) 377-5821 8657 BAYPINE ROAD SUITE 300, JACKSONVILLE, FL 32256 / (904) 744-5401</p>	<p>CRANE CREEK M-1 CANAL FLOW RESTORATION ST. JOHN'S RIVER WATER MANAGEMENT DISTRICT</p>	<p>STORMWATER POLLUTION PREVENTION NOTES - WEIR</p>	<table border="0"> <tr> <td>CERTIFICATE OF AUTHORIZATION #1841 APPROVED BY A. GOODDEN P.E. # 60997</td> <td>PROJECT NO: 19750-066-01</td> <td>DATE: DEC 2019</td> </tr> <tr> <td></td> <td>INDEX NO:</td> <td>DWG NO: EC5-2</td> </tr> </table>	CERTIFICATE OF AUTHORIZATION #1841 APPROVED BY A. GOODDEN P.E. # 60997	PROJECT NO: 19750-066-01	DATE: DEC 2019		INDEX NO:	DWG NO: EC5-2
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TYPE 1

D1 = 5' STD (SINGLE PANEL FOR DEPTHS 5' OR LESS)
 D2 = 5' STD (ADDITIONAL PANEL FOR DEPTHS 5')

TYPE 2

CURTAIN TO REACH BOTTOM UP TO DEPTHS OF 10 FEET. TWO (2) PANELS TO BE USED FOR DEPTHS GREATER THAN 10 FEET UNLESS SPECIAL DEPTH CURTAINS SPECIFICALLY CALL FOR IN THE PLANS OR AS DETERMINED BY THE ENGINEER.

NOTICE: COMPONENTS OF TYPES 1 AND 2 MAY BE SIMILAR OR IDENTICAL TO PROPRIETARY DESIGNS. ANY INFRINGEMENT ON THE PROPRIETARY RIGHTS OF THE DESIGNER SHALL BE THE SOLE RESPONSIBILITY OF THE USER. SUBSTITUTIONS FOR TYPES 1 AND 2 SHALL BE AS APPROVED BY THE ENGINEER.

TYPICAL FLOATING TURBIDITY BARRIER DETAIL

STORMWATER POLLUTION PREVENTION PLAN

INSPECTIONS MUST OCCUR AT LEAST ONCE A WEEK AND WITHIN 24 HOURS OF THE END OF A STORM EVENT THAT IS 0.50 INCHES OR GREATER

INSPECTOR: _____ FDEP NPDES STORMWATER IDENTIFICATION NUMBER: _____

LOCATION	RAIN DATA	TYPE OF CONTROL (SEE BELOW)	DATE INSTALLED / MODIFIED	CURRENT CONDITION (SEE BELOW)	CORRECTIVE ACTION / OTHER REMARKS

CONDITION CODE:
 G = GOOD M = MARGINAL, NEEDS MAINTENANCE OR REPLACEMENT SOON P = POOR, NEEDS IMMEDIATE MAINTENANCE OR REPLACEMENT
 C = NEEDS TO BE CLEARED O = OTHER

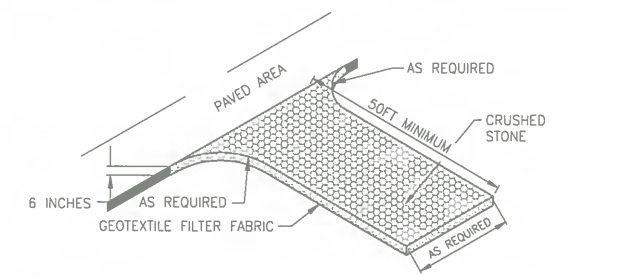
CONTROL TYPE CODES

1. SILT FENCE	10. STORM DRAIN INLET PROTECTION	19. REINFORCED SOIL RETAINING SYSTEM	28. TREE PROTECTION
2. EARTH DIKES	11. VEGETATIVE BUFFER STRIP	20. GABION	29. DETENTION POND
3. STRUCTURAL DIVISION	12. VEGETATIVE PRESERVATION AREA	21. SEDIMENT BASIN	30. RETENTION POND
4. SWALE	13. RETENTION POND	22. TEMPORARY SEED / SOD	31. WASTE DISPOSAL / HOUSEKEEPING
5. SEDIMENT TRAP	14. CONSTRUCTION ENTRANCE STABILIZATION	23. PERMANENT SEED / SOD	32. DAM
6. CHECK DAM	15. PERIMETER DITCH	24. MULCH	33. SAND BAG
8. PIPE SLOPE DRAIN	16. CURB AND GUTTER	25. MATTLIES	34. OTHER
9. LEVEL SPREADERS	17. PAVED ROAD SURFACE	26. GEOTEXTILE	
9. LEVEL SPREADERS	18. ROCK OUTLET PROTECTION	27. RIP-RAP	

INSPECTOR INFORMATION:
 NAME: _____ QUALIFICATION _____ DATE _____
 THE ABOVE SIGNATURE ALSO SHALL CERTIFY THAT THIS FACILITY IS IN COMPLIANCE WITH THE STORMWATER POLLUTION PREVENTION PLAN AND THE STATE OF FLORIDA GENERIC PERMIT FOR STORMWATER DISCHARGE FROM LARGE AND SMALL CONSTRUCTION ACTIVITIES IF THERE ARE NOT ANY INCIDENTS OF NON-COMPLIANCE IDENTIFIED ABOVE.

I CERTIFY UNDER PENALTY OF LAW THAT THIS DOCUMENT AND ALL ATTACHMENTS WERE PREPARED UNDER MY DIRECTION OR SUPERVISION IN ACCORDANCE WITH A SYSTEM DESIGNED TO ASSURE THAT QUALIFIED PERSONNEL PROPERLY GATHERED AND EVALUATED THE INFORMATION SUBMITTED. BASED ON MY INQUIRY OF THE PERSON OR PERSONS WHO MANAGE THE SYSTEM, OR THOSE PERSONS DIRECTLY RESPONSIBLE FOR GATHERING THE INFORMATION, THE INFORMATION SUBMITTED IS, TO THE BEST OF MY KNOWLEDGE AND BELIEF, TRUE, ACCURATE, AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT FOR KNOWING VIOLATIONS.

NAME (RESPONSIBLE AUTHORITY) _____ DATE _____



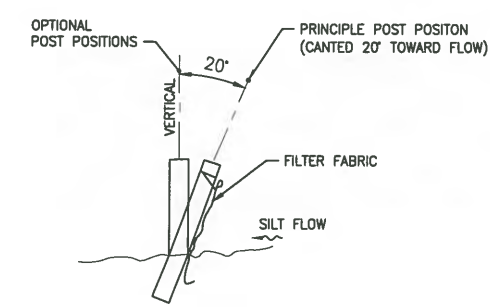
STABILIZED CONSTRUCTION ENTRANCE

NTS (Co)

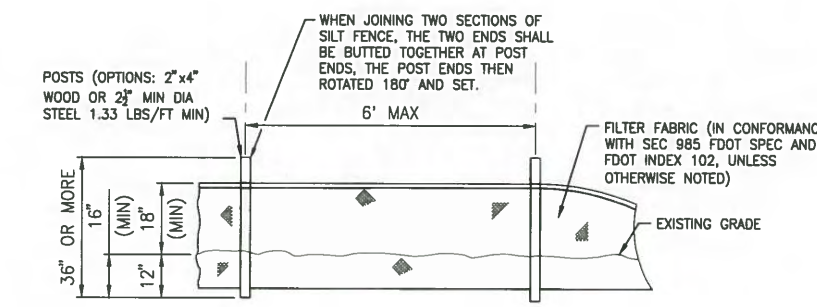
CITY OF MELBOURNE EROSION & SEDIMENTATION CONTROL NOTES

THE FOLLOWING PRINCIPLES ARE TO BE ADDED VERBATIM TO CONSTRUCTION DRAWINGS AS MINIMUM MEASURES TO BE INSTALLED FOR ANY LAND DISTURBING ACTIVITY:

- A. THE LAND-DISTURBING ACTIVITY SHALL CONFORM TO EXISTING TOPOGRAPHY AND SOIL TYPE SO AS TO CREATE THE LOWEST PRACTICAL EROSION POTENTIAL.
- B. LAND-DISTURBING ACTIVITIES SHALL BE CONDUCTED IN A MANNER MINIMIZING EROSION.
- C. THE DISTURBED AREA AND THE DURATION OF EXPOSURE TO EROSION ELEMENTS SHALL BE KEPT TO A PRACTICABLE MINIMUM.
- D. EROSION CONTROL MUST BE STRICTLY MAINTAINED DURING CUT AND FILL OPERATIONS.
- E. DISTURBED SOIL SHALL BE STABILIZED AS QUICKLY AS PRACTICABLE.
- F. WHENEVER FEASIBLE, NATURAL VEGETATION SHALL BE RETAINED, PROTECTED AND SUPPLEMENTED.
- G. TEMPORARY VEGETATION OR MULCHING SHALL BE EMPLOYED TO PROTECT EXPOSED CRITICAL AREAS DURING DEVELOPMENT.
- H. PERMANENT VEGETATION AND STRUCTURAL EROSION CONTROL MEASURES SHALL BE INSTALLED AS SOON AS PRACTICABLE.
- I. ADEQUATE PROVISIONS MUST BE PROVIDED TO MINIMIZE DAMAGE FROM SURFACE WATER TO THE CUT FACE OF EXCAVATIONS OR THE SLOPING SURFACE OF FILLS.
- J. TO THE EXTENT NECESSARY, SEDIMENT IN RUNOFF WATER MUST BE TRAPPED BY THE USE OF DEBRIS BASINS, SEDIMENT BASINS, SILT TRAPS OR SIMILAR MEASURES UNTIL THE DISTURBED AREA IS STABILIZED.
- K. CUTS AND FILLS MUST BE CONSTRUCTED IN SUCH A MANNER THAT EROSION AND RUNOFF FROM THE SITE DOES NOT ENDANGER ADJOINING PROPERTY.
- L. FILLS MAY NOT ENCRDACH UPON NATURAL WATERCOURSES OR CONSTRUCTED CHANNELS IN A MANNER SO AS TO ADVERSELY AFFECT OTHER PROPERTY OWNERS WITHOUT ADEQUATE PROVISIONS FOR AN EQUIVALENT ALTERNATE SYSTEM WITH A POSITIVE OUTFALL.
- M. ALL R.O.W.'S, WATERWAYS, STREETS AND SIDEWALKS SHALL BE BUFFERED BY A TWENTY (20) FOOT WIDE STRIP OF GRASS OR OTHER SUITABLE MEANS.
- N. GRADING EQUIPMENT MUST CROSS FLOWING STREAMS BY MEANS OF BRIDGES OR CULVERTS EXCEPT WHEN SUCH METHODS ARE NOT FEASIBLE AND PROVIDED IN ANY CASE, THAT SUCH CROSSINGS ARE KEPT TO A MINIMUM AND SEDIMENTATION CONTROL DEVICES ARE PROVIDED.



SECTION



ELEVATION

TYPICAL SILT FENCE

NTS (Sd1)



SAVED: 11/15/2019 12:52 PM MHOFFMAN Y:\19750-SURWMD\PROJECTS\066-01-CRANE CREEK_M-1_FLOW_RESTORATION_DESIGN\CAD\DWGS\ENV\EC5-3.DWG

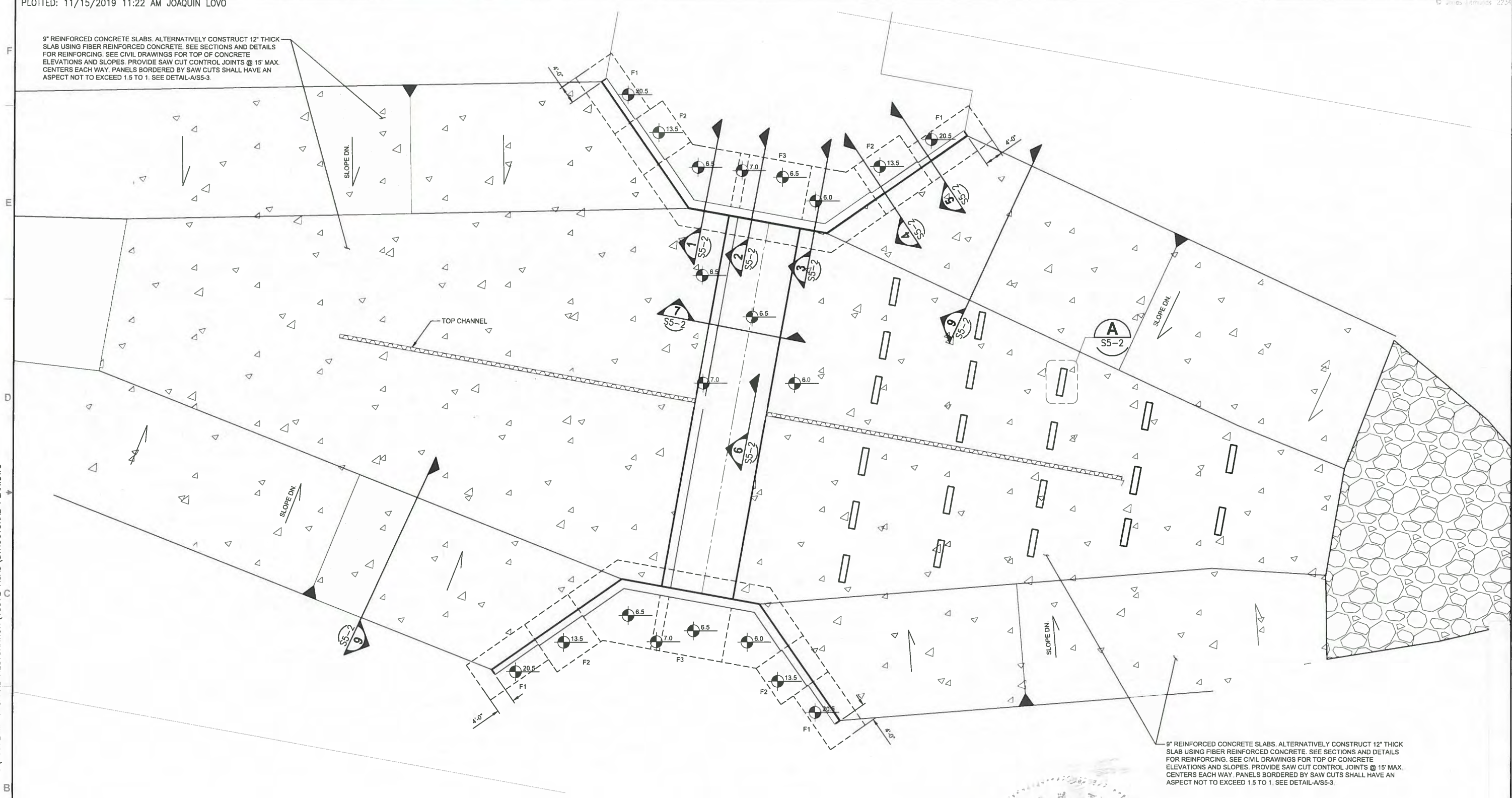
NOT FOR CONSTRUCTION

DESIGNED	A GOODDEN	<p>CERTIFICATE OF AUTHORIZATION #1841 730 NE WALDO ROAD, GAINESVILLE, FLORIDA 32641 / (352) 377-5821 8657 BAYPINE ROAD SUITE 300, JACKSONVILLE, FL 32256 / (904) 744-5401</p>	CRANE CREEK M-1 CANAL FLOW RESTORATION ST. JOHN'S RIVER WATER MANAGEMENT DISTRICT	EROSION CONTROL NOTES AND DETAILS - WEIR	CERTIFICATE OF AUTHORIZATION #1841	PROJECT NO:	DATE:
DRAWN	D HAUBRICH				APPROVED BY:	19750-066-01	DEC 2019
CHECKED	R KOLLER				A. GOODDEN	INDEX NO:	DWG NO:
LTR.	DATE	REVISIONS	BY	APPRD.	P.E. # 60097		EC5-3

PLOTTED: 11/15/2019 11:22 AM JOAQUIN LOVO

9" REINFORCED CONCRETE SLABS. ALTERNATIVELY CONSTRUCT 12" THICK SLAB USING FIBER REINFORCED CONCRETE. SEE SECTIONS AND DETAILS FOR REINFORCING. SEE CIVIL DRAWINGS FOR TOP OF CONCRETE ELEVATIONS AND SLOPES. PROVIDE SAW CUT CONTROL JOINTS @ 15' MAX. CENTERS EACH WAY. PANELS BORDERED BY SAW CUTS SHALL HAVE AN ASPECT NOT TO EXCEED 1.5 TO 1. SEE DETAIL-A/S5-3.

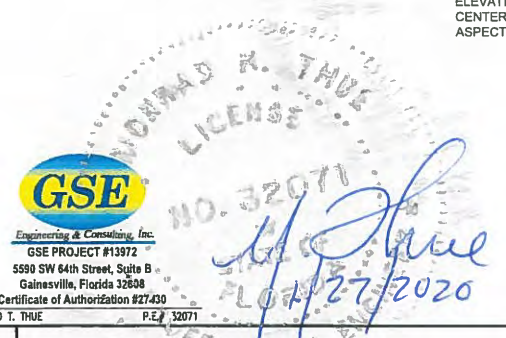
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9" REINFORCED CONCRETE SLABS. ALTERNATIVELY CONSTRUCT 12" THICK SLAB USING FIBER REINFORCED CONCRETE. SEE SECTIONS AND DETAILS FOR REINFORCING. SEE CIVIL DRAWINGS FOR TOP OF CONCRETE ELEVATIONS AND SLOPES. PROVIDE SAW CUT CONTROL JOINTS @ 15' MAX. CENTERS EACH WAY. PANELS BORDERED BY SAW CUTS SHALL HAVE AN ASPECT NOT TO EXCEED 1.5 TO 1. SEE DETAIL-A/S5-3.

PLAN
3/8" = 1'-0"

PLAN NOTES:
1. SEE SECTIONS AND DETAILS FOR FOUNDATION SIZES AND REINFORCING.



LTR.	DATE	REVISIONS	BY	APPRD.	CHECKED

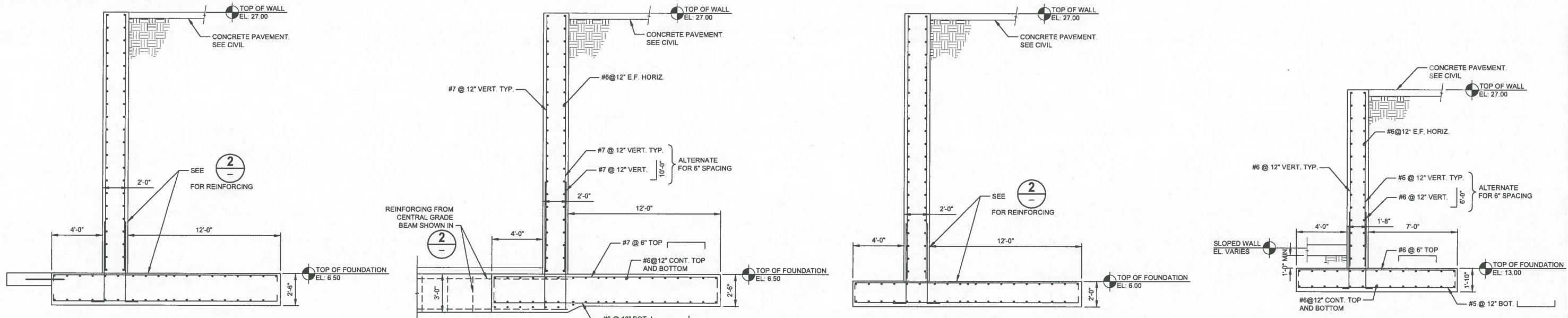
JonesEdmunds
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 8657 BAYPINE ROAD SUITE 300, JACKSONVILLE, FL 32256 / (904) 744-5401

CRANE CREEK M-1 CANAL FLOW RESTORATION
ST. JOHN'S RIVER WATER MANAGEMENT DISTRICT

WEIR PLAN

PROJECT NO:	DATE:
19750-066-01	OCT 2019
INDEX NO:	DWG NO:
	S5-1

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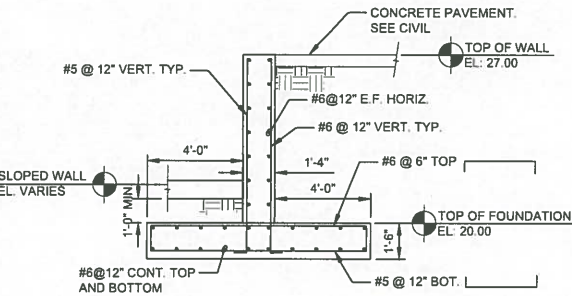


WALL SECTION 1
1/2" = 1'-0" S5-2

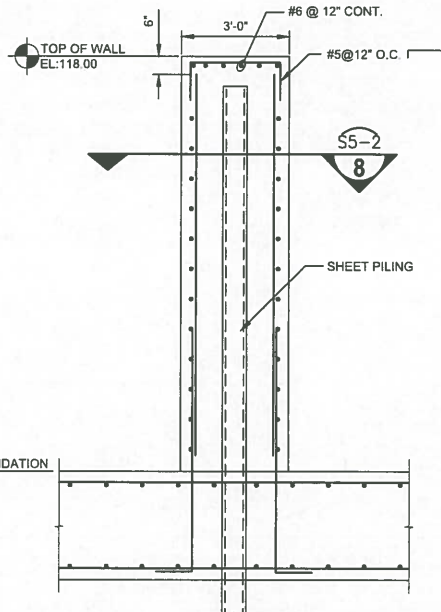
WALL SECTION 2
1/2" = 1'-0" S5-2

WALL SECTION 3
1/2" = 1'-0" S5-2

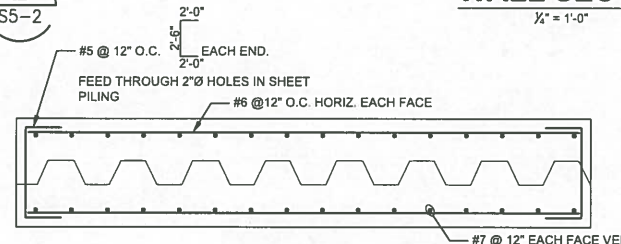
WALL SECTION 4
1/2" = 1'-0" S5-2



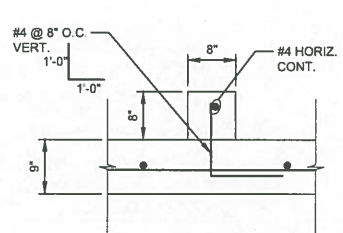
WALL SECTION 5
1/2" = 1'-0" S5-2



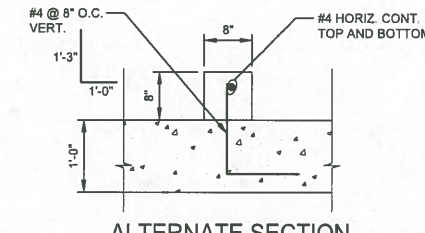
CENTRAL WALL SECTION 6
3/4" = 1'-0" S5-2



SECTION 8
3/4" = 1'-0" S5-2

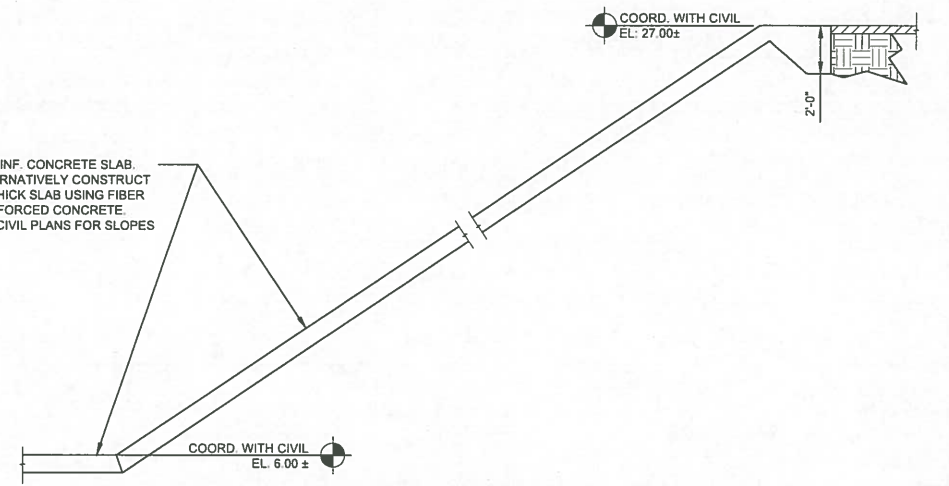


SECTION
N.T.S.



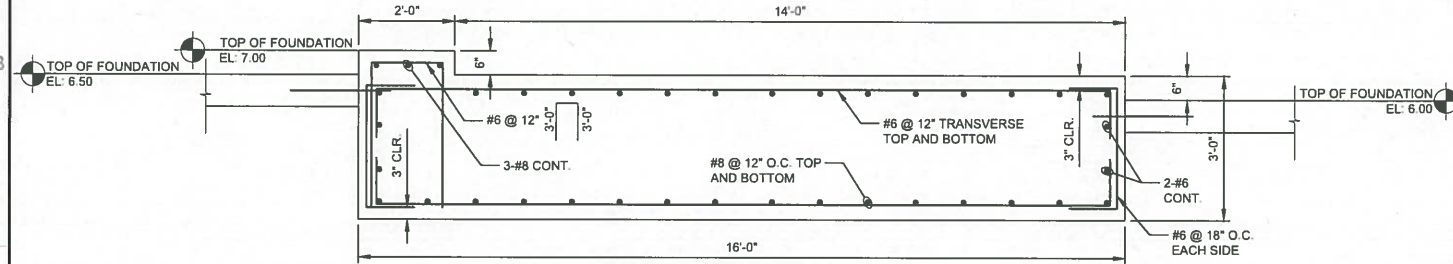
ALTERNATE SECTION WITH FIBER REINFORCED CONCRETE SLAB
N.T.S.

9" REINF. CONCRETE SLAB. ALTERNATIVELY CONSTRUCT 12" THICK SLAB USING FIBER REINFORCED CONCRETE. SEE CIVIL PLANS FOR SLOPES.

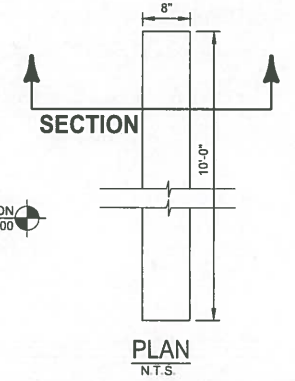


SECTION 9
1/2" = 1'-0" S5-2

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SECTION 7
1/8" = 1'-0" S5-2



BAFFLE DETAIL A
3/4" = 1'-0" S5-2



LTR.	DATE	REVISIONS	BY	APPRD.	CHECKED

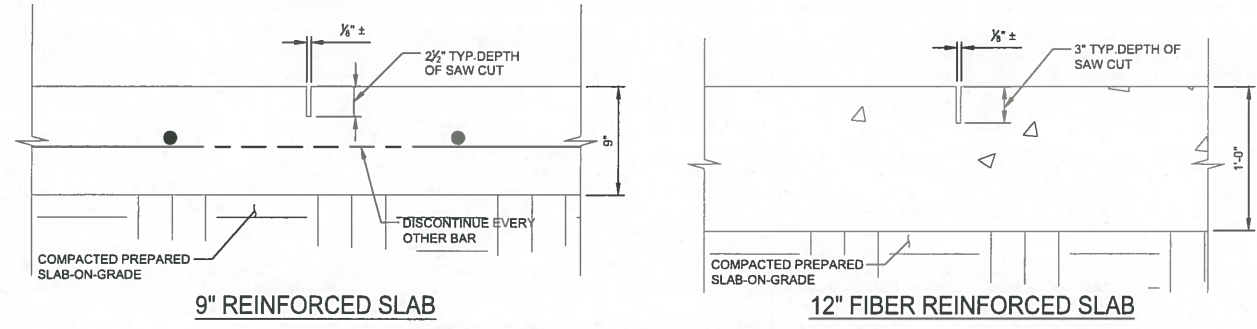
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 8657 BAYPINE ROAD SUITE 300, JACKSONVILLE, FL 32256 / (904) 744-5401

CRANE CREEK M-1 CANAL FLOW RESTORATION
ST. JOHN'S RIVER WATER MANAGEMENT DISTRICT

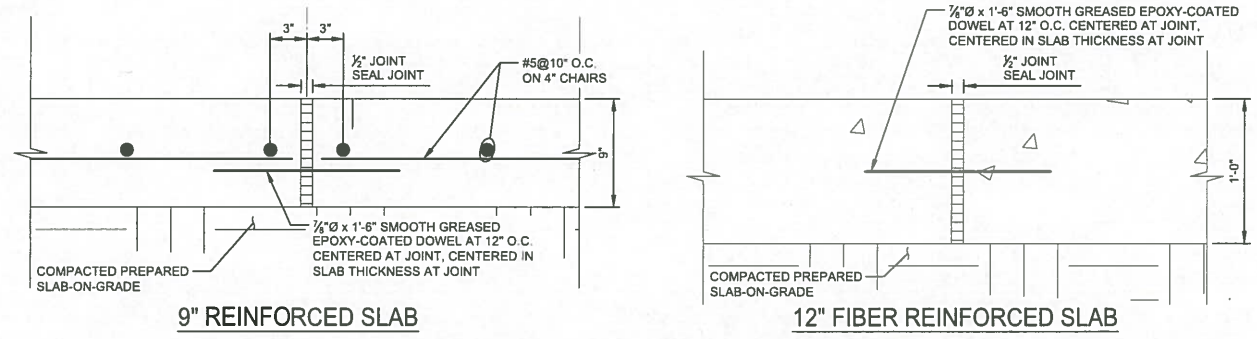
SECTIONS AND DETAILS

PROJECT NO: 19750-066-01	DATE: OCT 2019
INDEX NO:	DWG NO: S5-2

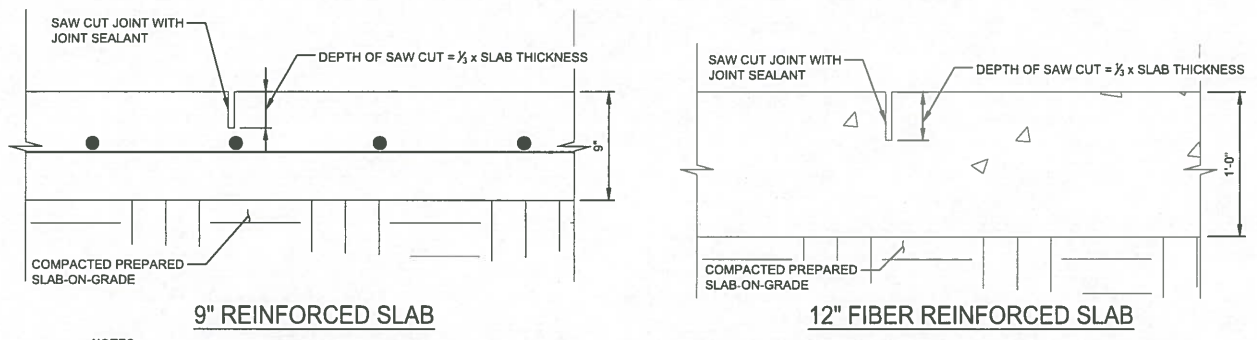
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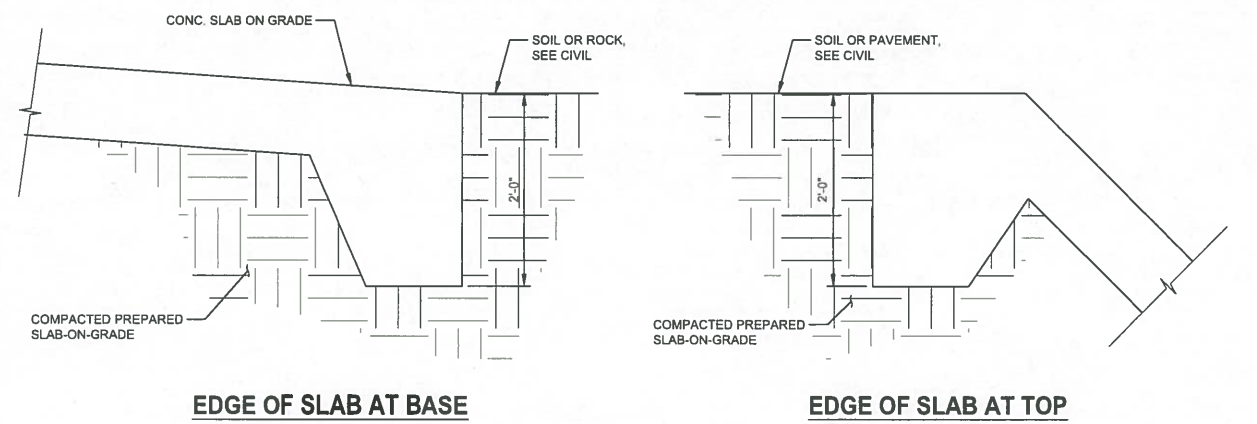
CONTROL JOINTS @ 15' MAX. CENTERS



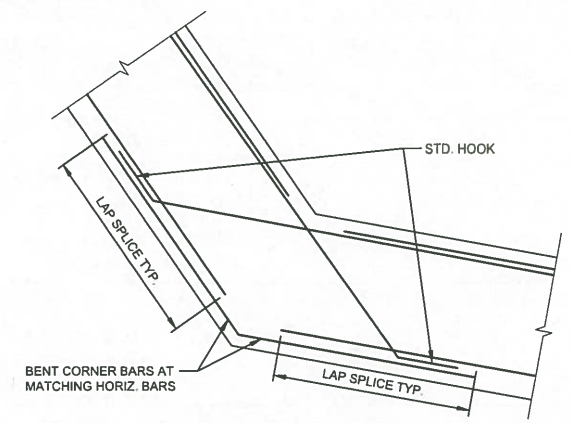
CONSTRUCTION JOINTS AS REQUIRED



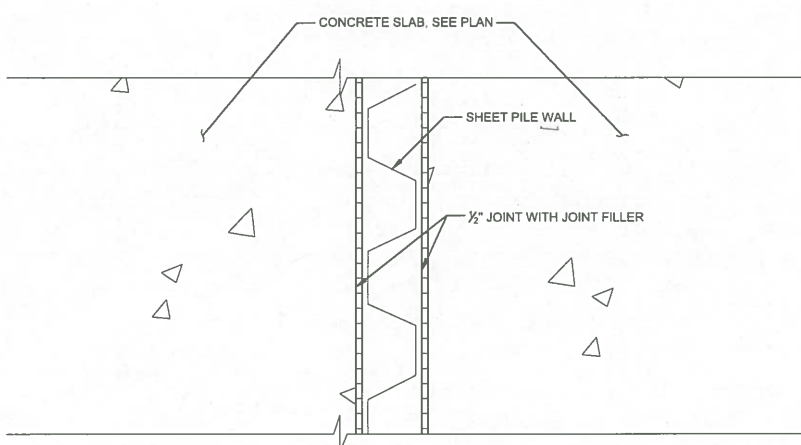
SLAB SAW CUT JOINT USED BETWEEN CONSTRUCTION JOINTS, TYP.



SLAB DETAILS



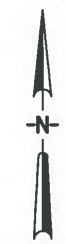
CONCRETE WALL REINFORCEMENT AT CORNERS



CONCRETE SLAB AT SHEET PILE WALL

GSE
 Engineering & Consulting, Inc.
 GSE PROJECT #13972
 5590 SW 64th Street, Suite B
 Gainesville, Florida, 32608
 Certificate of Authorization #27430
 P.E.# 32071

Monrad T. Thue
 11/27/2020



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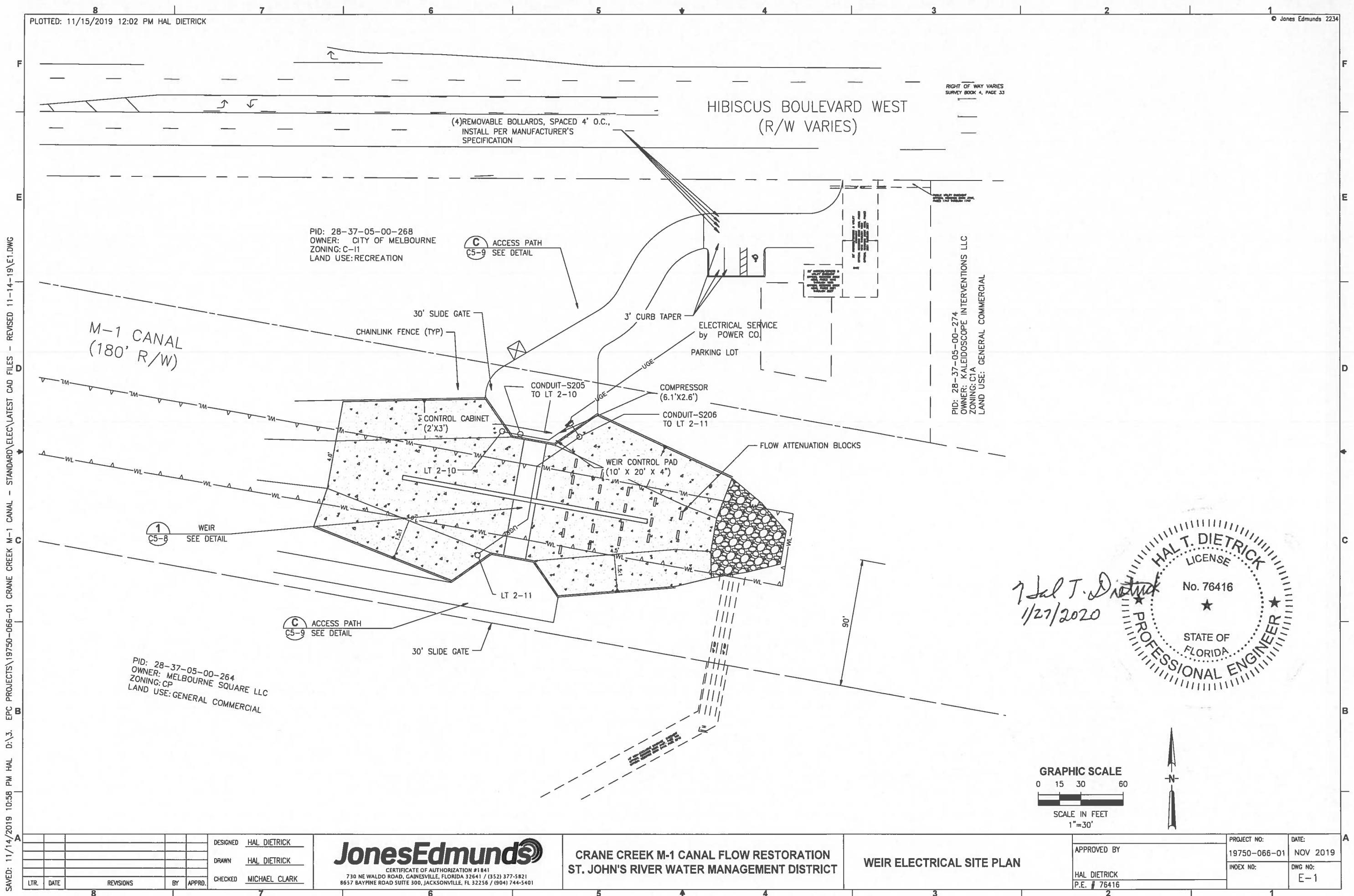
LTR.	DATE	REVISIONS	BY	APPRD.	CHECKED

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CRANE CREEK M-1 CANAL FLOW RESTORATION
ST. JOHN'S RIVER WATER MANAGEMENT DISTRICT

SECTIONS AND DETAILS

PROJECT NO:	19750-066-01	DATE:	OCT 2019
INDEX NO:		DWG NO:	S5-3



PLOTTED: 11/15/2019 12:02 PM HAL DIETRICK
 JONES EDMUNDS 2234
 RIGHT OF WAY VARIES SURVEY BOOK 4, PAGE 33
 PID: 28-37-05-00-268
 OWNER: CITY OF MELBOURNE
 ZONING: C-11
 LAND USE: RECREATION
 (4) REMOVABLE BOLLARDS, SPACED 4' O.C., INSTALL PER MANUFACTURER'S SPECIFICATION
 HIBISCUS BOULEVARD WEST (R/W VARIES)
 PID: 28-37-05-00-274
 OWNER: KALEIDOSCOPE INTERVENTIONS LLC
 ZONING: C1A
 LAND USE: GENERAL COMMERCIAL
 M-1 CANAL (180' R/W)
 30' SLIDE GATE
 CHAINLINK FENCE (TYP)
 CONTROL CABINET (2'X3')
 WEIR CONTROL PAD (10' X 20' X 4")
 CONDUIT-S205 TO LT 2-10
 CONDUIT-S206 TO LT 2-11
 COMPRESSOR (6.1'X2.6')
 ELECTRICAL SERVICE by POWER CO
 PARKING LOT
 3' CURB TAPER
 (1) WEIR SEE DETAIL
 (C) ACCESS PATH C5-9 SEE DETAIL
 (C) ACCESS PATH C5-9 SEE DETAIL
 30' SLIDE GATE
 PID: 28-37-05-00-264
 OWNER: MELBOURNE SQUARE LLC
 ZONING: CP
 LAND USE: GENERAL COMMERCIAL
 GRAPHIC SCALE
 0 15 30 60
 SCALE IN FEET
 1"=30'
 HAL T. DIETRICK
 LICENSE No. 76416
 STATE OF FLORIDA
 PROFESSIONAL ENGINEER
 7 Hal T. Dietrick
 1/27/2020
 DESIGNED HAL DIETRICK
 DRAWN HAL DIETRICK
 CHECKED MICHAEL CLARK
 APPROVED BY HAL DIETRICK P.E. # 76416
 PROJECT NO: 19750-066-01 DATE: NOV 2019
 INDEX NO: DWG NO: E-1

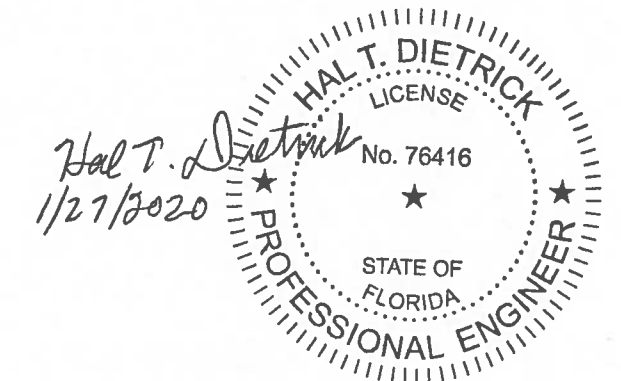
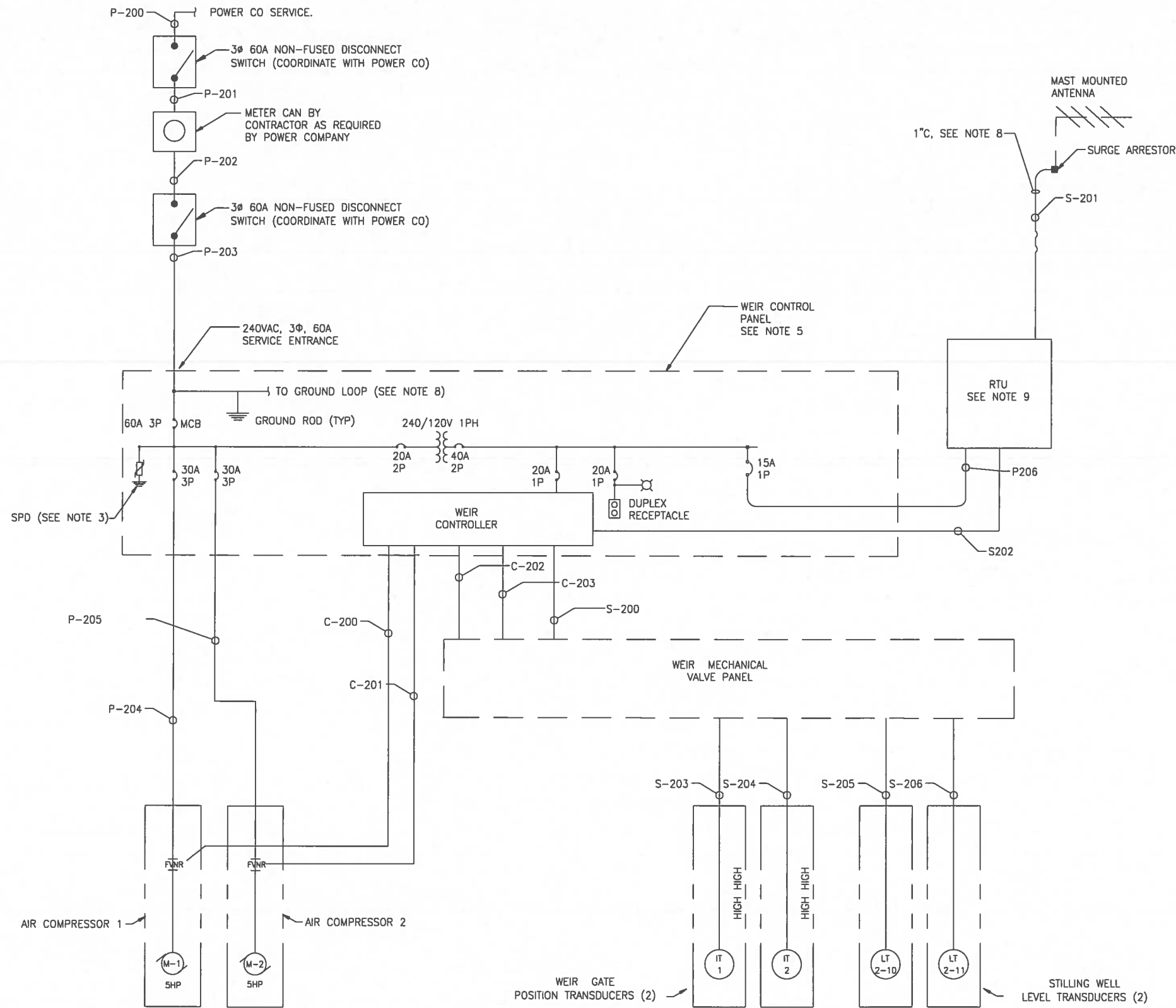
DESIGNED HAL DIETRICK DRAWN HAL DIETRICK CHECKED MICHAEL CLARK		JonesEdmunds CERTIFICATE OF AUTHORIZATION #1841 730 NE WALDO ROAD, GAINESVILLE, FLORIDA 32641 / (352) 377-5821 8657 BAYPINE ROAD SUITE 300, JACKSONVILLE, FL 32256 / (904) 744-5401		CRANE CREEK M-1 CANAL FLOW RESTORATION ST. JOHN'S RIVER WATER MANAGEMENT DISTRICT		WEIR ELECTRICAL SITE PLAN		APPROVED BY HAL DIETRICK P.E. # 76416		PROJECT NO: 19750-066-01 DATE: NOV 2019 INDEX NO: DWG NO: E-1	
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PLOTTED: 11/15/2019 12:06 PM HAL DIETRICK

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WEIR STATION NOTES

1. PANEL LOCATION IS AS SHOWN ON THE PLANS.
2. CONDUCTORS EXITING CONTROL PANEL SHALL BE TYPE THWN INSULATED COPPER. INTERNAL CONTROL PANEL WIRING SHALL BE TYPE MTW OR AS REQUIRED BY THE MANUFACTURER.
3. PROVIDE A SURGE PROTECTION DEVICE (SPD) ON THE LOAD SIDE OF THE MAIN CIRCUIT BREAKER. SPD SHALL BE AN ADVANCED PROTECTION TECHNOLOGIES TE/4XT, PQ PROTECTION PQC100, OR APPROVED EQUAL.
4. THE WEIR CONTROL PANEL ENCLOSURE SHALL BE NEMA 4X STAINLESS STEEL FITTED WITH A 3 POINT LOCKABLE LATCH AND DEAD FRONT PANEL.
5. ALL CONNECTIONS TO THE THE PANEL SHALL INCLUDE, BUT NOT BE LIMITED TO, THE FOLLOWING: (SEE SPECIFICATIONS FOR FURTHER REQUIREMENTS)
 - A. THERMAL MAGNETIC CIRCUIT BREAKERS INDICATED.
 - B. MULTI-STAGE PUMP CONTROL SYSTEM (SEE SPECIFICATION)
 - C. CONTROL POWER TRANSFORMERS, AS REQUIRED.
 - D. SURGE PROTECTION DEVICE.
 - E. RUN TIME METER FOR EACH PUMP.
 - F. HAND-OFF-AUTO SELECTOR SWITCH FOR EACH PUMP.
 - G. GREEN PUMP STOP, RED PUMP RUN LIGHTS FOR EACH PUMP.
 - H. ALARM STROBE AND HORN WITH SILENCE SWITCH.
 - I. SEAL FAILURE RELAY WITH INDICATING LIGHT FOR EACH PUMP.
 - J. CONTROL SYSTEM SHALL BE 120 VOLT.
 - K. TYPE GFCI 20 AMP, 125 VOLT DUPLEX RECEPTACLE.
 - L. SUBMERSIBLE LEVEL TRANSMITTER CONTROL.
6. THE CONTROL PANEL INTEGRATED INTERRUPT RATING SHALL BE EQUAL TO THE AVAILABLE FAULT CIRCUIT CURRENT AT THE POINT OF INSTALLATION WITH A MINIMUM OF 22,000 RMS SYMMETRICAL AMPS.
7. GROUND ALL ENCLOSURES AND EQUIPMENT IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE. PROVIDE LIGHTNING PROTECTION AND A MINIMUM OF 5 GROUND RODS IN A HALO AROUND THE EQUIPMENT AREA TO PROVIDE A GROUND RESISTANCE OF NOT GREATER THAN 3 OHMS.
8. PROVIDE ANTENNA, COAXIAL CABLE, ANTENNA MAST AND ALL APPURTENANCES AS APPROVED BY THE DISTRICT AND CONFORMING TO THEIR STANDARDS. SECURE CABLE TO THE ANTENNA MAST WITH STAINLESS STEEL CABLE TIES.
9. CONTRACTOR SHALL PROVIDE THE TELEMETRY SYSTEM RTU AND ALL REQUIRED SCADA EQUIPMENT. THE TELEMETRY SYSTEM SHALL BE AS APPROVED BY THE DISTRICT AND SHALL CONFORM TO THEIR STANDARDS.



11/15/2019 11:16 AM HAL D:\3. EPC PROJECTS\19750-066-01 CRANE CREEK M-1 CANAL - STANDARD\ELEC\LATEST CAD FILES - REVISED 11-14-19\E4.DWG
 Xref: Wref: R010-FB.dwg

DESIGNED	HAL DIETRICK
DRAWN	HAL DIETRICK
CHECKED	MICHAEL CLARK
BY	
APPRD.	

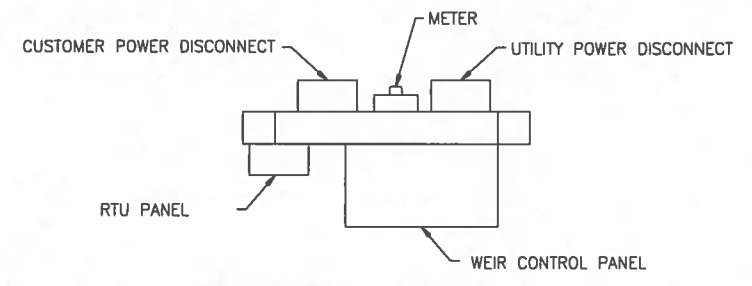
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CRANE CREEK M-1 CANAL FLOW RESTORATION
ST. JOHN'S RIVER WATER MANAGEMENT DISTRICT

WEIR STATION ONE LINE DIAGRAM

APPROVED BY	PROJECT NO:	DATE:
HAL DIETRICK	19750-066-01	NOV 2019
P.E. # 76416	INDEX NO:	DWG NO:
		E4

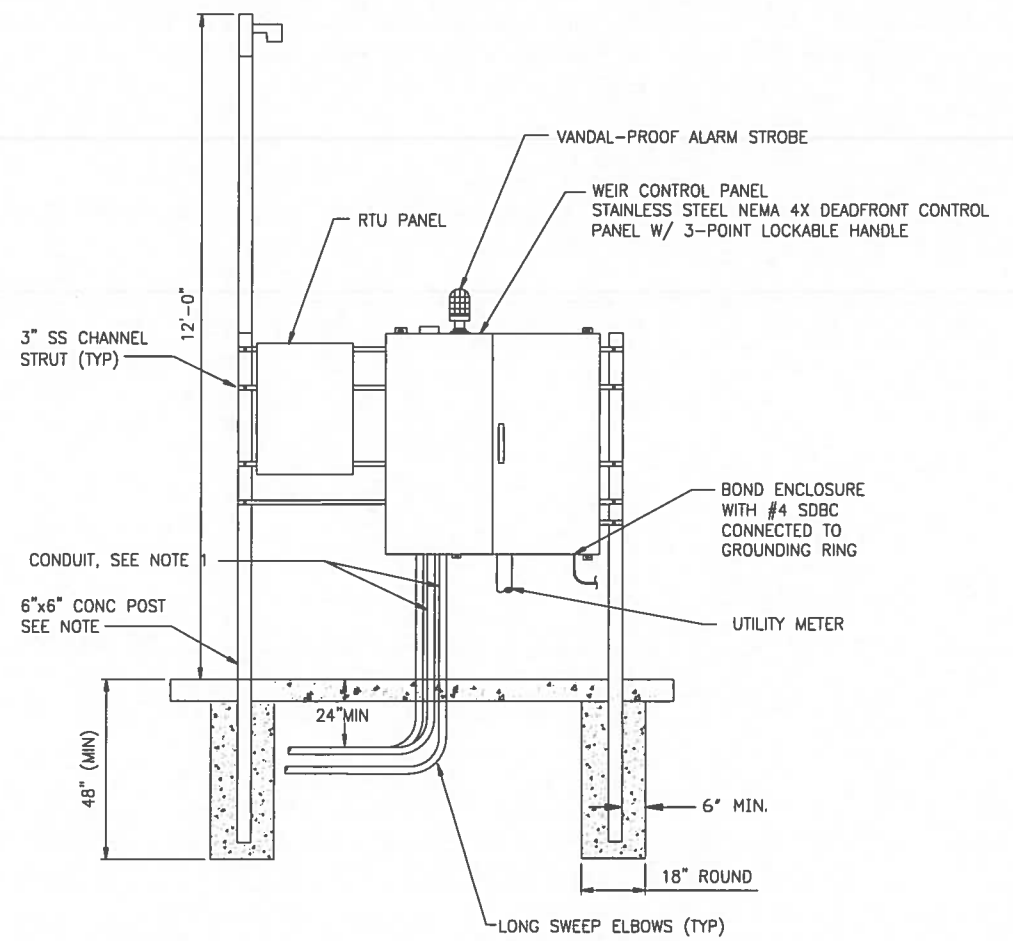
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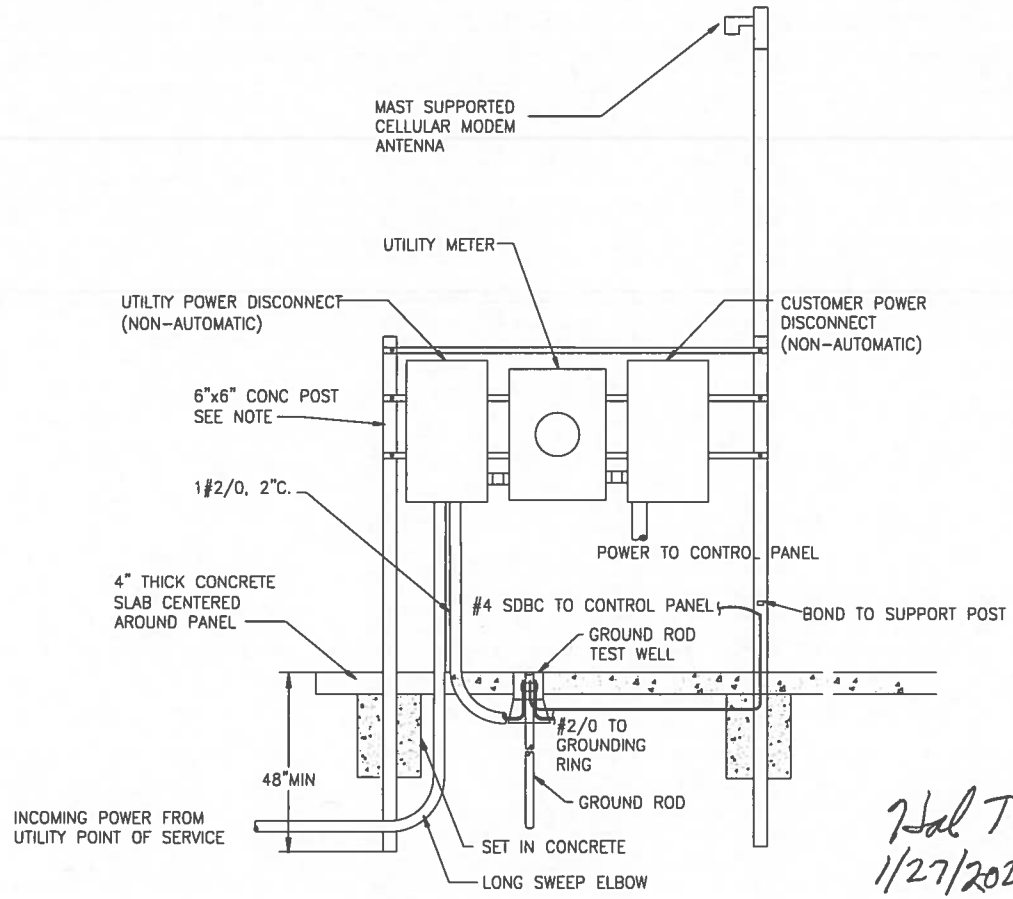
PLAN VIEW

NOTES:

1. MOTOR CONDUIT SHALL BE SIZED TO MAX 40% CONDUIT FILL. MINIMUM CONDUIT SIZE SHALL BE 2 1/2". ABOVE GROUND CONDUITS SHALL BE PVC COATED RIGID GALVANIZED STEEL DOWN TO BELOW THE FIRST ELBOW BELOW GRADE. UNDERGROUND CONDUITS BETWEEN THE JUNCTION BOX AND WETWELL SHALL BE SCHEDULE 80 PVC ENCASED WITH A MINIMUM OF 2" OF CONCRETE. REFER TO NEC 501.10(A)(1)(a) AND THE EXCEPTION FOR THE INSTALLATION OF THESE CONDUITS. ANALOG SIGNAL CONDUITS SHALL BE PVC COATED RIGID GALVANIZED STEEL ABOVE AND BELOW GRADE. ALL OTHER UNDERGROUND CONDUITS SHALL BE SCHEDULE 80 PVC.
2. INSTALL AN ELECTRICAL GROUNDING SYSTEM IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE AS WELL AS LOCAL CODES AND ORDINANCES. INSTALL AN UNDERGROUND PERIMETER CABLE GROUNDING SYSTEM WITH CONNECTIONS TO AT LEAST WET WELL COVER, VALVE VAULT COVER, CONTROL PANELS, GENERATOR, UTILITY COMPANY TRANSFORMER, AUTOMATIC TRANSFER SWITCH, AND ANTENNA MANUAL DISCONNECT SWITCH, AND METAL FENCE.
3. THE STATION NAME, PCU I.D. NUMBER, AND ADDRESS SHALL BE AFFIXED TO THE FRONT OF THE METER CABINET.
4. ALL MOUNTING HARDWARE & BRACKETS SHALL BE 316 STAINLESS STEEL.
5. COAT PORTIONS OF ALUMINUM IN CONTACT WITH CONCRETE WITH COAL TAR EPOXY.



FRONT VIEW

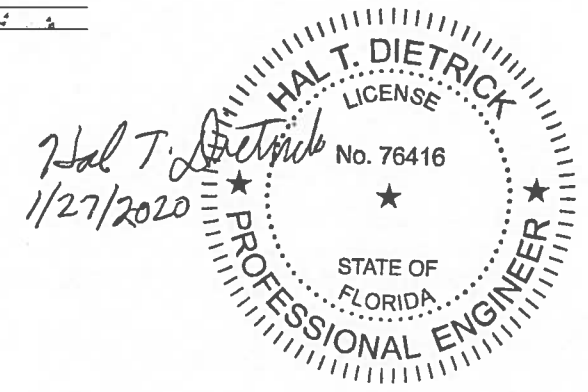


REAR VIEW

ELECTRICAL SERVICE AND CONTROL PANEL DETAIL 1

NTS

1
E-1



3. EPC PROJECTS\19750-066-01 CRANE CREEK M-1 CANAL - STANDARD\ELEC\LATEST CAD FILES - REVISED 11-14-19\E7.DWG
 11/15/2019 11:19 AM HAL D:\3.

DESIGNED HAL DIETRICK		<p>CERTIFICATE OF AUTHORIZATION #1841 730 NE WALDO ROAD, GAINESVILLE, FLORIDA 32641 / (352) 377-5821 8657 BAYPINE ROAD SUITE 300, JACKSONVILLE, FL 32256 / (904) 744-5401</p>	CRANE CREEK M-1 CANAL FLOW RESTORATION ST. JOHN'S RIVER WATER MANAGEMENT DISTRICT		WEIR STATION ELECTRICAL DETAILS		APPROVED BY	PROJECT NO: 19750-066-01	DATE: NOV 2019
DRAWN HAL DIETRICK			HAL DIETRICK					INDEX NO:	DWG NO: E7
CHECKED MICHAEL CLARK			P.E. # 76416						
LTR.	DATE	REVISIONS	BY	APPRD.					



FLORIDA DEPARTMENT OF Environmental Protection

CENTRAL DISTRICT OFFICE
3319 MAGUIRE BLVD., SUITE 232
ORLANDO, FLORIDA 32803

Ron DeSantis
Governor

Jeanette Nuñez
Lt. Governor

Shawn Hamilton
Secretary

Permittee/Authorized Entity:
St Johns River Water Management District (SJRWMD)
Michael A. Register, P.E., Executive Director
MRegister@SJRWMD.COM
P.O. Box 1429
Palatka, Florida 32178-1429

SJRWMD M-1 Canal Flow Restoration – Second Pump Station

Authorized Agent:
Jones Edmunds & Associates
Amy L. Goodden, P.E., Project Engineer
AGoodden@JonesEdmunds.com
730 NE Waldo Road
Gainesville, Florida 32641

Environmental Resource Permit – Modification
State-Owned Submerged Lands Authorization – Not Applicable
Army Corps of Engineers Authorization – Not Required

Permit No.: 384808-005-EM
Oculus Facility-Site ID Search: [ERP 384808](#)
Modification of Permit No.: [384808-001-EI](#)

[384808-001-EI](#) Permit Issuance Date: June 29, 2020
[384808-001-EI](#) Modification Issuance Date: September 27, 2022
[384808-001-EI](#) Construction Expiration Date: June 29, 2025
[384808-001-EI](#) Construction Phase Extended To: June 29, 2027



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NOTICE OF PERMIT MODIFICATION

St Johns River Water Management District (SJRWMD)

Michael A. Register, P.E., Executive Director

MRegister@SJRWMD.COM

P.O. Box 1429

Palatka, Florida 32178-1429

Permit Modification No.: 384808-005-EM

Permittee: SJRWMD

Project: SJRWMD M-1 Canal Flow Restoration – Second Pump Station

Dear Mr. Register:

The request to modify the above referenced permit has been received and reviewed by Department staff. The permittee is authorized to construct a second stormwater pump station to route stormwater from previously permitted stormwater treatment system to a discharge structure on SJRWMD property within the St Johns River floodplain.

The activities authorized in this modification are located north and west from the intersection of St John Heritage Parkway (Ellis Road) and US 192, in Sections 34, 3 & 4, Townships 27 & 28 South, Range 36 East, Melbourne, Brevard County. The activities are approximately centered at Latitude 28° 4' 43.6505", Longitude -80° 42' 55.6119".

Permitting History

- [ST404_384808-004-SFG](#) is a state 404 program general permit that authorized the installation of a 24-inch pipe that proposed 0.08 acres of wetland impacts. The permit was issued on July 1, 2022 with an expiration date of December 22, 2025.
- [ERP_384808-003-EG](#) is an environmental resource general permit that authorized the installation of a 24-inch pipe that proposed 0.08 acres of wetland impacts. The permit was issued on May 16, 2022 with an expiration date of May 15, 2027.
- [ST404_384808-002-NPR](#) is a state 404 program no permit required verification for the construction a pump station, conveyance system and stormwater treatment area. The permit was issued on October 12, 2021 with an expiration date of October 11, 2026.
- [ERP_384808-001-EI](#) is an environmental resource individual permit that authorized the construction of a weir at the M-1 Canal east of Evans Road, a pump station at M-1 Canal near Dike Road that will pump from M-1 Canal to a previously permitted stormwater treatment system, and a 24-inch stormwater force main. The permit was issued on June 29, 2020 with an expiration date of June 29, 2025.

Since the proposed modification is not expected to result in any adverse environmental impact or water quality degradation, the permit is hereby modified as requested. By copy of this letter and the attached exhibits, we are notifying all necessary parties of the modification.

This permit modification changes the original permit construction expiration date from June 29, 2025 to June 29, 2027. This permit modification does not alter the Specific or General Conditions or monitoring requirements of the original permit(s) and permit modifications, unless stated herein. This letter must be attached to the original permit(s), permit modifications and any future permit documents.

NOTICE OF RIGHTS

This action is final and effective on the date filed with the Clerk of the Department unless a petition for an administrative hearing is timely filed under Sections 120.569 and 120.57, F.S., before the deadline for filing a petition. On the filing of a timely and sufficient petition, this action will not be final and effective until a subsequent order of the Department. Because the administrative hearing process is designed to formulate final agency action, the subsequent order may modify or take a different position than this action.

Petition for Administrative Hearing

A person whose substantial interests are affected by the Department's action may petition for an administrative proceeding (hearing) under Sections 120.569 and 120.57, F.S. Pursuant to Rules 28-106.201 and 28-106.301, F.A.C., a petition for an administrative hearing must contain the following information:

- (a) The name and address of each agency affected and each agency's file or identification number, if known;
- (b) The name, address, any e-mail address, any facsimile number, and telephone number of the petitioner, if the petitioner is not represented by an attorney or a qualified representative; the name, address, and telephone number of the petitioner's representative, if any, which shall be the address for service purposes during the course of the proceeding; and an explanation of how the petitioner's substantial interests will be affected by the agency determination;
- (c) A statement of when and how the petitioner received notice of the agency decision;
- (d) A statement of all disputed issues of material fact. If there are none, the petition must so indicate;
- (e) A concise statement of the ultimate facts alleged, including the specific facts that the petitioner contends warrant reversal or modification of the agency's proposed action;
- (f) A statement of the specific rules or statutes that the petitioner contends require reversal or modification of the agency's proposed action, including an explanation of how the alleged facts relate to the specific rules or statutes; and
- (g) A statement of the relief sought by the petitioner, stating precisely the action that the petitioner wishes the agency to take with respect to the agency's proposed action.

The petition must be filed (received by the Clerk) in the Office of General Counsel of the Department at 3900 Commonwealth Boulevard, Mail Station 35, Tallahassee, Florida 32399-3000, or via electronic correspondence at Agency_Clerk@dep.state.fl.us. Also, a copy of the petition shall be mailed to the applicant at the address indicated above at the time of filing.

Time Period for Filing a Petition

In accordance with Rule 62-110.106(3), F.A.C., petitions for an administrative hearing by the applicant and persons entitled to written notice under Section 120.60(3), F.S., must be filed within 21 days of receipt of this written notice. Petitions filed by any persons other than the applicant, and other than those entitled to written notice under Section 120.60(3), F.S., must be

filed within 21 days of publication of the notice or within 21 days of receipt of the written notice, whichever occurs first. You cannot justifiably rely on the finality of this decision unless notice of this decision and the right of substantially affected persons to challenge this decision has been duly published or otherwise provided to all persons substantially affected by the decision. While you are not required to publish notice of this action, you may elect to do so pursuant Rule 62-110.106(10)(a).

The failure to file a petition within the appropriate time period shall constitute a waiver of that person's right to request an administrative determination (hearing) under [Sections 120.569](#) and 120.57, F.S., or to intervene in this proceeding and participate as a party to it. Any subsequent intervention (in a proceeding initiated by another party) will be only at the discretion of the presiding officer upon the filing of a motion in compliance with Rule 28-106.205, F.A.C. If you do not publish notice of this action, this waiver will not apply to persons who have not received written notice of this action.

Extension of Time

Under Rule 62-110.106(4), F.A.C., a person whose substantial interests are affected by the Department's action may also request an extension of time to file a petition for an administrative hearing. The Department may, for good cause shown, grant the request for an extension of time. Requests for extension of time must be filed with the Office of General Counsel of the Department at 3900 Commonwealth Boulevard, Mail Station 35, Tallahassee, Florida 32399-3000, or via electronic correspondence at Agency_Clerk@dep.state.fl.us, before the deadline for filing a petition for an administrative hearing. A timely request for extension of time shall toll the running of the time period for filing a petition until the request is acted upon.

Mediation

Mediation is not available in this proceeding.

FLAWAC Review

The applicant, or any party within the meaning of Section 373.114(1)(a) or 373.4275, F.S., may also seek appellate review of this order before the Land and Water Adjudicatory Commission under Section 373.114(1) or 373.4275, F.S. Requests for review before the Land and Water Adjudicatory Commission must be filed with the Secretary of the Commission and served on the Department within 20 days from the date when this order is filed with the Clerk of the Department.

Judicial Review

Once this decision becomes final, any party to this action has the right to seek judicial review pursuant to Section 120.68, F.S., by filing a Notice of Appeal pursuant to Florida Rules of Appellate Procedure 9.110 and 9.190 with the Clerk of the Department in the Office of General Counsel (Station #35, 3900 Commonwealth Boulevard, Tallahassee, Florida 32399-3000) and by filing a copy of the Notice of Appeal accompanied by the applicable filing fees with the appropriate district court of appeal. The notice must be filed within 30 days from the date this action is filed with the Clerk of the Department.

EXECUTION AND CLERKING

Executed in Orlando, Florida.

STATE OF FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION



Reggie Phillips
Program Administrator
Permitting and Waste Cleanup Program

Attachments:

- Exhibit 1: [ERP_384808-005-EM Engineering Drawings, 38 pages](#)
- Exhibit 2: [Oculus link to ERP_384808 Permitting Files](#)
- Exhibit 3: [Oculus link to ST404_384808 Permitting Files](#)
- Exhibit 4: See the links below for Chapter 62-330, F.A.C., Forms,
[Link to the Construction Commencement Notice/Form 62-330.350\(1\)](#)
[Link to the As-built Certification and Request for Conversion to Operational Phase/Form 62-330.310\(1\)](#)
[Link to the Operation and Maintenance Inspection Certification/Form 62-330.311\(1\)](#)
[Link to the Request to Transfer Permit/Form 62-330.340\(1\)](#)


CERTIFICATE OF SERVICE

The undersigned duly designated deputy clerk hereby certifies that this permit and all copies were sent on the filing date below to the following listed persons:

Richard N. Koller, P.E., RKoller@jonesedmunds.com
Mark Van Heden, P.E., SJRWMD, MVanHede@sjrwmd.com
Rebecca Trudeau, SJRWMD, RTrudeau@sjrwmd.com
Brevard County, LeeAnn.McCullough-Wham@brevardfl.gov
Reggie Phillips, FDEP, Reggie.Phillips@FloridaDEP.gov
Teayann Duclos, FDEP, Teayann.Duclos@FloridaDEP.gov
Leo Angleró, FDEP, Leo.Anglero@FloridaDEP.gov

FILING AND ACKNOWLEDGMENT

FILED, on this date, pursuant to Section 120.52, F.S., with the designated Department Clerk, receipt of which is hereby acknowledged.


Clerk

September 27, 2022
Date