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FLORIDA DEPARTMENT OF TRANSPORTATION - DISTRICT 4 MAINTENANCE MEMORANDUM OF AGREEMENT (AGREEMENT)

THIS AGREEMENT was made and entered into on (date) _______ by and between the STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION, a component agency of the State of Florida, hereinafter called the DEPARTMENT and the CITY OF HOLLYWOOD, a municipal corporation existing under the Laws of Florida, hereinafter called the AGENCY.

WITNESSETH

WHEREAS, the DEPARTMENT has jurisdiction over State Road (S.R.) 9/I-95 as part of the State Highway System; and

WHEREAS, as part of the continual updating of the State of Florida Highway System, the **DEPARTMENT**, for the purpose of safety, protection of the investment and other reasons, has constructed and does maintain S.R. 9/I-95 (86070000) within the limits of the **AGENCY**; and

WHEREAS, the AGENCY seeks to install and maintain all storm drainage appurtenances within the DEPARTMENT'S right of way including but not limited to storm culverts, junction boxes, straight concrete endwalls, drainage ditches, outfalls and riprap, constructed under FM No. 436903-7-58-01 hereinafter called IMPROVEMENTS, installed along S.R. 9/I-95 (86070000) from M.P. 2.86 to M.P. 3.11 ("Project") as described within Exhibit A (Project Location, Description and Aerial); and

WHEREAS, it is the intent of the parties that the AGENCY shall maintain all IMPROVEMENTS constructed within the Project limits under FM No. 436903-7-58-01 as described within Exhibit B (Plans); and

WHEREAS, the Project involves the scope of work as described within Exhibit A and Exhibit B, which will benefit the AGENCY; and

WHEREAS the parties hereto mutually recognize the need for entering into an AGREEMENT designating and setting forth the responsibilities of each party; and

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WHEREAS, the AGENCY by Resolution No	entered t	his date
, attached hereto and by this reference made a part here	of, desires	to enter
into this AGREEMENT and authorizes its officers to do so.		

NOW THEREFORE, for and in consideration of mutual benefits that flow each to the other, the parties covenant and agree as follows:

1. RECITALS

The recitals set forth above are true and correct and are deemed incorporated herein.

2. INSTALLATION OF FACILITIES

The AGENCY shall construct, under FM No. 436903-7-58-01, the IMPROVEMENTS as detailed in EXHIBIT A and EXHIBIT B that will benefit the AGENCY. The AGENCY agrees to maintain the IMPROVEMENTS within the corporate limits of the AGENCY; and

- 1) All activities, including the **IMPROVEMENTS** installation and future maintenance operations performed on State highway right of way, shall be in conformity with the most current edition of the *Manual on Uniform Traffic Control* (MUTCD) and FDOT *Traffic Control through Work Zones*.
- 2) The most current edition of FDOT *Standard Plans* (Sight Distance at Intersections) shall be adhered to.
- 3) Lateral Offsets as specified in the Florida Design Manual (FDM) Section 215.
- 4) The **IMPROVEMENTS** shall not obstruct roadside signs or permitted outdoor advertising signs, (see Florida Administrative Code [F.A.C.] Rule Chapter 14-10.)
- 5) The **AGENCY** shall provide the local FDOT Operation Center located at Broward Operations, 5548 NW 9th Avenue, Ft. Lauderdale, FL. 33309 (954) 776-4300. a twenty-four (24) hour telephone number and the name of the person responsible that the **DEPARTMENT** may contact. The **AGENCY** shall notify the local maintenance office forty-eight (48) hours prior to the start of the **IMPROVEMENTS**.

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6) If there is a need to restrict the normal flow of traffic, it shall be done on non-holiday, weekday off-peak hours, and the party performing such work shall give notice to the local law enforcement agency within whose jurisdiction such road is located prior to commencing work on the IMPROVEMENTS. Lane closures must be submitted for approval in accordance with DEPARTMENT procedures and policies and will meet the goals established in the DEPARTMENT'S Open Roads Policy. The DEPARTMENT'S Operation Center Public Information Officer (see telephone number in Paragraph (e) shall also be notified.

- 7) The **AGENCY** shall be responsible to clear all utilities within the improvement limits before construction commences.
- 8) The AGENCY shall be solely responsible for any damage to surrounding property, real estate, vehicles, pedestrians, or other assets occurring as a result of installation operations and shall repair such damage to the satisfaction of the DEPARTMENT at no expense to the DEPARTMENT.

3. MAINTENANCE OF FACILITIES

- A. The AGENCY agrees to maintain the IMPROVEMENTS to be installed under FM No. 436903-7-58-01 Maintenance by the AGENCY will include but not be limited to inspection, repair, restoration, replacement, and general maintenance of all IMPROVEMENTS as described in EXHIBIT B within the limits of construction as detailed in EXHIBIT A. Maintenance shall be as indicated below and in accordance with EXHIBIT C (Maintenance Plan Requirements).
 - 1) The AGENCY agrees to maintain, at its sole cost and expense, the IMPROVEMENTS set forth in Exhibit A and Exhibit B in compliance with any and all applicable laws which shall include, but not be limited to, laws and regulations relating to the Americans with Disabilities Act ("ADA") of 1990, as currently enacted or as may be amended from time to time.
 - 2) The IMPROVEMENTS shall be kept clean and free from trash and debris. The IMPROVEMENTS shall be kept free of graffiti. The IMPROVEMENTS shall be free of pests such as stinging insects, rodents, and vermin, including removal of nests as needed.

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3) As part of the maintenance responsibility, the AGENCY shall keep in good repair and/or replace defective or worn-out parts of the IMPROVEMENTS. The AGENCY's responsibility to keep the IMPROVEMENTS in good repair shall include all necessary inspection, maintenance, repair and replacement of any type or nature, including, but not limited to, inspection, maintenance, repair, and replacement due to normal wear and tear, named storm events, acts of God, vandalism, and accidents. The AGENCY shall take all necessary steps to maintain the IMPROVEMENTS in a manner to protect against injury to any person or property.

- 4) The above-named functions to be performed by the AGENCY may be subject to periodic inspections by the DEPARTMENT at the discretion of the DEPARTMENT. Such inspection findings will be shared with the AGENCY and shall be the basis of all decisions regarding reworking relating to the maintenance obligation / function or AGREEMENT termination.
- 5) The **AGENCY** shall be solely responsible for any damage to surrounding property, real estate, vehicles, pedestrians, or other assets occurring as a result of maintenance and operation of the **IMPROVEMENTS** and shall repair such damage to the satisfaction of the **DEPARTMENT** at no expense to the **DEPARTMENT**, as per the requirements in **Exhibit C** (Maintenance Plan Requirements).
- B. The AGENCY shall be responsible to maintain the IMPROVEMENTS. The AGENCY shall replace the structure if destroyed in an accident by third parties. The AGENCY shall comply with all ADA Laws existing and as may be amended. Adjacent sidewalk areas shall be always accessible. If sidewalk closures are needed, alternate routes shall be clearly identified, and missing sidewalk shall be restored either with permanent or temporary materials at the end of each workday.
- C. All IMPROVEMENTS shall at all times have a notification sign posted with the name and phone number of the department within the AGENCY responsible for maintenance of the IMPROVEMENTS so that members of the public may contact the AGENCY regarding problems with the IMPROVEMENTS. The AGENCY shall promptly respond and correct all complaints regarding maintenance. The IMPROVEMENTS to be constructed with this project shall not contain advertising. Nor shall advertising be placed upon them by any party in the future.

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D. The **AGENCY** shall be responsible for maintenance of the Project in accordance with the following Federally and State accepted standards (current editions at the time of execution of this **AGREEMENT** and any amendments hereafter) and all costs related thereto: (a) FDOT Design Manual (FDM), (b) Florida Green Book, (c) Standard Specifications for Roadway and Bridge Construction, (d) FDOT Standard Plans, (e) Manual on Uniform Traffic Control Devices (MUTCD), and (f) all other applicable local, state, or federal laws, rules, resolutions, or ordinances, and FDOT procedures. In the event of a conflict between documents, standards, and procedures the more stringent shall apply.

E. Any work impacting traffic flow along S.R. 9/I-95 (86070000) from M.P. 2.86 to M.P. 3.11 must be coordinated with the **DEPARTMENT**. Lane closures must be submitted for approval in accordance with **DEPARTMENT** procedures and policies and will meet the goals established in the **DEPARTMENT**'s Open Roads Policy.

4. NOTICE OF MAINTENANCE FACILITIES

If, at any time while the terms of this **AGREEMENT** are in effect, it shall come to the attention of the **DEPARTMENT** that the **AGENCY'S** responsibility as established herein or a part thereof is not being properly accomplished pursuant to the terms of this **AGREEMENT**, the **DEPARTMENT** may issue a written notice, that a deficiency or deficiencies exist(s), by sending a certified letter to the **AGENCY**, in care of the **CITY OF HOLLYWOOD**, to place the **AGENCY** on notice regarding its maintenance deficiencies. Thereafter, the **AGENCY** shall have a period of sixty (60) days within which to correct the citied deficiency or deficiencies. If said deficiencies are not corrected within the time period, the **DEPARTMENT** may, at its option, proceed under one or more or a combination of the following items:

- The **DEPARTMENT** may repair any item or a number of items. Corrective
 actions will be performed with the **DEPARTMENT** and/or its independent
 contractor's materials, equipment, and personnel. The actual cost for such
 work will be charged to the **AGENCY**.
- 2) The **DEPARTMENT** may remove or replace any item or number of items with the standard **DEPARTMENT** item. Corrective actions will be performed with

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the **DEPARTMENT** and/or its independent contractor's materials, equipment, and personnel. The actual cost for such work will be charged to the **AGENCY**.

- 3) If there is no standard equivalent item or if in the DEPARTMENT'S discretion the item is not necessary for the operations of the roadway, the DEPARTMENT may remove the item in its entirety and restore the area to a condition acceptable to the DEPARTMENT. Corrective actions will be performed with the DEPARTMENT and/or its independent contractor's materials, equipment, and personnel. The actual cost for such work will be charged to the AGENCY.
- 4) At the discretion of the DEPARTMENT, terminate the AGREEMENT in accordance with Section 7 of this AGREEMENT and remove, by the DEPARTMENT or its Contractor's personnel, all the IMPROVEMENTS installed under this AGREEMENT and charge the AGENCY the reasonable cost of such removal.

5. **FUTURE DEPARTMENT IMPROVEMENTS**

It is understood between the parties hereto that the **IMPROVEMENTS** covered by this **AGREEMENT** may be removed, relocated, or adjusted at any time in the future as determined to be necessary by the **DEPARTMENT** in order that the adjacent state road be widened, altered, or otherwise changed to meet with future criteria or planning of the **DEPARTMENT**.

6. FUTURE AGENCY IMPROVEMENTS

The **AGENCY** may construct additional **IMPROVEMENTS** within the limits of the rights of ways identified as a result of this document, subject to the following conditions:

- Plans for any new IMPROVEMENTS shall be subject to approval by the DEPARTMENT. The AGENCY shall not change or deviate from said plans without written approval by the DEPARTMENT.
- The AGENCY shall procure a permit and/or Construction Agreement from the DEPARTMENT, as appropriate.
- 3) All **IMPROVEMENTS** shall be developed and implemented in accordance with appropriate state safety and roadway design standards.

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4) The **AGENCY** agrees to comply with the requirements of this **AGREEMENT** with regard to any additional **IMPROVEMENTS** installed at no cost to the **DEPARTMENT**.

7. AGREEMENT TERMINATION

This **AGREEMENT** may be terminated under any of the following conditions:

- 1) By the DEPARTMENT, if the AGENCY fails to perform its duties under this AGREEMENT, following ten (10) days written notice. The AGENCY shall reimburse the DEPARTMENT for any expenditures for the installation of said IMPROVEMENTS and the cost to remove and or replace said improvement with the standard improvement or remove in its entirety.
- 2) By the **DEPARTMENT**, for refusal by the **AGENCY** to allow public access to all documents, papers, letters, or other material subject to the provisions of Chapter 119, Florida Statutes, and made or received by the **AGENCY** in conjunction with this **AGREEMENT**.
- 3) By the **DEPARTMENT** with a six (6) month written notice.

8. AGREEMENT TERM

The term of this **AGREEMENT** commences upon execution by all parties. The term of this **AGREEMENT** shall remain in effect for as long as the **IMPROVEMENTS** shall exist.

9. LIABILITY AND INSURANCE REQUIREMENTS

A. With respect to any of the AGENCY'S agents, consultants, sub-consultants, contractors, and/or sub-contractors, such party in any contract for the IMPROVEMENTS shall agree to indemnify, defend, save and hold harmless the DEPARTMENT from all claims, demands, liabilities, and suits of any nature arising out of, because of or due to any intentional and/or negligent act or occurrence, omission or commission of such agents, consultants, sub consultants, contractors and/or subcontractors. The AGENCY shall provide to the DEPARTMENT written evidence of

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the foregoing upon the request of the **DEPARTMENT**. It is specifically understood and agreed that this indemnification clause does not cover or indemnify the **DEPARTMENT** for its own negligence.

- B. In the event that the **AGENCY** contracts with a third party to provide the services set forth herein, any contract with such third party shall include the following provisions:
 - The AGENCY'S contractor shall at all times during the term of this AGREEMENT keep and maintain in full force and effect, at contractor's sole cost and expense, Comprehensive General Liability with minimum limits of \$1,000,000.00 per occurrence combined single limit for Bodily Injury Liability and Property Damage Liability and Worker's Compensation insurance with minimum limits of \$500,000.00 per Liability. Coverage must be afforded on a form no more restrictive that the latest edition of the Comprehensive General Liability and Worker's Compensation policy without restrictive endorsements, as filed by the Insurance Services Office and shall name the DEPARTMENT as an additional insured.
 - 2) The AGENCY'S contractor shall furnish the AGENCY with Certificates of Insurance of Endorsements evidencing the insurance coverages specified herein prior to the beginning performance of work under this AGREEMENT.
 - 3) Coverage is not to cease and is to remain in full force and effect (subject to cancellation notice) until all performance required of the AGENCY'S contractor is completed. All policies must be endorsed to provide the DEPARTMENT with at least thirty (30) days' notice of cancellation and or/or restriction. If any of the insurance coverages will expire prior to the completion of work, copies of renewal policies shall be furnished at least (30) days prior to the date of expiration.

10. E-VERIFY REQUIREMENTS

A. The **AGENCY** shall:

 Utilize the U.S. Department of Homeland Security's E-Verify system to verify the employment eligibility of all new employees hired by the AGENCY for the work performed under this AGREEMENT; and

SECTION: 86070000 FM NO: 436903-7-58-01

COUNTY: BROWARD

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2) Expressly require any contractors performing work or providing services

pursuant to the state contract to likewise utilize the U.S. Department of

Homeland Security's E-Verify system to verify the employment eligibility of all

new employees hired by the subcontractor during the contract term.

11. ENTIRE AGREEMENT

This writing embodies the entire AGREEMENT and understanding between the

parties hereto and there are no other Agreements and understanding, oral or written,

with reference to the subject matter hereof that are not merged herein and superseded

hereby except the Local Funded Agreement(s). as to all other IMPROVEMENTS not

specifically mentioned in this AGREEMENT.

12. **DISPUTES**

The **DEPARTMENT** shall decide all questions, difficulties, and disputes of any nature

whatsoever that may arise under or by reason of this AGREEMENT the prosecution

or fulfillment of the service hereunder and the character, quality, amount and value

thereof. Should the AGENCY disagree with the DEPARTMENT decision, the

AGENCY may pursue all legal and equitable remedies available under this

AGREEMENT.

13. **ASSIGNMENT**

This **AGREEMENT** may not be assigned or transferred by the **AGENCY** in whole or

part without the consent of the **DEPARTMENT**.

14. LAWS GOVERNING

This **AGREEMENT** shall be governed by and construed in accordance with the laws

of the State of Florida. In the event of a conflict between any portion of the contract

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and Florida law, the laws of Florida shall prevail. The venue for any dispute arising from this **AGREEMENT** shall be in Broward County, Florida.

15. NOTICES

All notices given or required under this **AGREEMENT** shall be in writing and either personally delivered with receipt acknowledgement or sent by certified mail, return receipt requested. All notices shall be sent to the following addresses.

1) If to the **DEPARTMENT**:

State of Florida Department of Transportation

Attention: District Maintenance Engineer

3400 West Commercial Blvd

Ft. Lauderdale, FL 33309-3421

2) If to the **AGENCY**:

The City of Hollywood

P.O. Box 229045

Hollywood, FL. 33022

Attention: Feng (Jeff) Jiang, Assistant Director, Public

Utilities/Engineering

16. LIST OF EXHIBITS

1) **Exhibit A:** Project Location, Description and Project Aerial

2) Exhibit B: Plans

3) Exhibit C: Maintenance Plan Requirements

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IN WITNESS OF THE FOREGOING, the parties have set their hands and seals the day and year first written above.

AGENCY:		
City of Hollywood, a municipal		
Corporation of the State of Florida		
Ву:	Date:	
City Mayor		
ATTEST:		
	Date:	
City Clerk		
Approved as to form:		
	Date	
City Attorney		

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IN WITNESS OF THE FOREGOING, the parties have set their hands the day and year first written above.

Date:	
Date	

Francine Steelman, Assistant General Counsel

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EXHIBIT A

PROJECT LOCATION, DESCRIPTION AND AERIAL

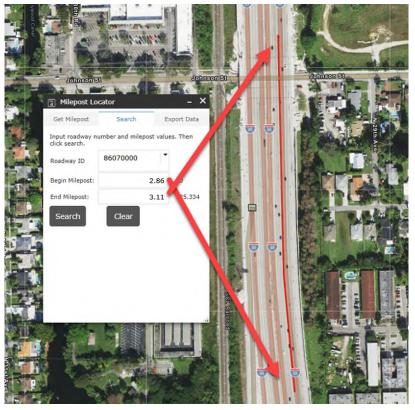
I. Project Location

The **IMPROVEMENTS** associated with this **AGREEMENT** are located within the City of Hollywood in Broward County, Florida along S.R. 9/195 (86070000) from M.P. 2.86 to M.P. 3.11

II. Description

The proposed project consists of all storm drainage appurtenances within the **DEPARTMENT'S** right of way including but not limited to storm culverts, junction boxes, straight concrete endwalls, drainage ditches, outfalls and riprap, along S.R. 9/I-95 (86070000) M.P. 2.89 to M.P. 3.11.

III. Ariel



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EXHIBIT B

PLANS

Plans by Gannett Fleming, Inc. dated April 2025, as approved by the Department.

PLANS (attached)

Sheets Included:

PDF Page Number (#) Plan Sheet (#) Sheet(s) Description

15		COVER SHEET
16	C-1	LEGAND AND ABBREVIATIONS
17	C-2	NOTES
18	C-3	KEY MAP
19	C-4	EXISTING CONDITIONS
20	C-5	EXISTING FEATURES PLAN
21	C-6	STORM CULVERT PLAN AND PROFILE
22-31	C-7 to C-16	UTILITY DETAILS
32	C-17	EROSION & SEDIMENT CONTROL
33	C-18	EROSION & SEDIMENT CONTROL DETAIL
34-35	C-19, 20	TEMPORARY TRAFFIC CONTROL

CITY OF HOLLYWOOD

TASK 4.0 - CULVERT AT JOHNSON STREET EAST OF I-95 FDOT FINANCIAL PROJECT ID: 436903-1-52-01



079373 **APRIL 2025** 90% DETAILED DESIGN DRAWINGS

	INDEX OF DRAWINGS							
SHEET NO.	TITLE							
	CIVIL							
C-1	LEGENDS AND ABBREVIATIONS							
C-2	NOTES							
C-3	KEY MAP							
C-4	EXISTING CONDITION PLAN							
C-5	EXISTING FEATURES PLAN							
C-6	STORM CULVERT PLAN AND PROFILE							
C-7	UTILITY DETAILS							
C-8	UTILITY DETAILS							
C-9	UTILITY DETAILS							
C-10	UTILITY DETAILS							
C-11	UTILITY DETAILS							
C-12	UTILITY DETAILS							
C-13	UTILITY DETAILS							
C-14	UTILITY DETAILS							
C-15	UTILITY DETAILS							
C-16	UTILITY DETAILS							
C-17	EROSION AND SEDIMENT CONTROL PLAN							
C-18	EROSION AND SEDIMENT CONTROL DETAIL PLAN							
C-19	TEMPORARY TRAFFIC CONTROL PLANS DETOUR SHEET							
C-20	TEMPORARY TRAFFIC CONTROL PLANS - TYPICAL SECTION							

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VICINITY MAP

CITY COMMISSION

JOSH LEVY - MAYOR

CARYL S. SHUHAM - VICE MAYOR (DISTRICT 1)

TRACI L. CALLARI - COMMISSIONER (DISTRICT 3)

ADAM GRUBER - COMMISSIONER (DISTRICT 4)

KEVIN D. BIEDERMAN - COMMISSIONER (DISTRICT 5)

IDELMA QUINTANA - COMMISSIONER (DISTRICT 6)



Miami, FL 33126 Phone: (305) 908-3924 Fax: (786) 845-6802 Florida Certificate of Authorization No. P26734





"THE UTILITY DATA PROVIDED HEREIN IS BASED ON AVAILABLE INFORMATION AT THE TIME OF DESIGN AND IS SUBJECT TO CHANGE. THE ENGINEER OF RECORD ASSUMES NO

RESPONSIBILITY FOR THE ACCURACY OR COMPLETENESS OF

THE EXISTING UTILITY DATA PROVIDED BY OTHERS, INCLUDING

CITY OF HOLLYWOOD GIS AND FDOT SURVEY INFORMATION. IT

IS THE RESPONSIBILITY OF THE CONTRACTOR TO PERFORM

FIELD VERIFICATION OF ALL EXISTING UTILITIES AND TO NOTIFY

CIVIL/SITE SYMBOLS

AIR RELEASE MANHOLE

BENCH MARK

BUTTERFLY VALVE AND VALVE BOX

CATCH BASIN/INLET

CHECK VALVE

CONTROL POINT

EXISTING GAS VALVE

EXISTING GAS CURB BOX

GATE VALVE AND VALVE BOX

HYDRANT

MANHOLE

UTILITY POLE

TREES, BUSHES AND SHRUBS

TEST PIT

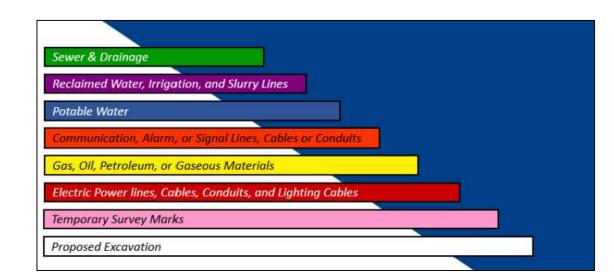
VENT

WATER CURB BOX

EXISTING WATER VALVE

BURIED GATE VALVE

FDOT COLOR CODE



EXISTING LINE WORK

—— A ——— A ——— AIR LINE BITUMINOUS ROAD SURFACE AND DRIVES — – CENTER LINE — CONCRETE SIDEWALK OR RETAINING WALL — DITCH, STREAM OR SWALE — 550 — FIVE FOOT CONTOUR INTERVAL —— G —— GAS MAIN AND VALVE -----c ----- MISCELLANEOUS UTILITY — — — — ONE FOOT CONTOUR INTERVAL OVERHEAD UTILITY LINE T UNDERGROUND TELEPHONE/COMMUNICATIONS LINE —— — PROPERTY LINE ----- RIGHT-OF-WAY LINE ----- FM ------ SANITARY FORCE MAIN SANITARY SEWER AND MANHOLE ———— - ———— SOIL BOUNDARY LINE —— UGE ——— UGE —— UNDERGROUND ELECTRIC CABLE ---- UGT ----- UNDERGROUND TELEPHONE CABLE ----- ww------ WASTEWATER MAIN —— w—— ₩V WATER MAIN AND VALVE WOOD OR VEGETATION LINE **EXISTING SPOT ELEVATION**

PROPOSED LINE WORK

FM FM	PROPOSED FORCE MAIN
	PROPOSED WATER MAIN
	STORM SEWER AND INLET
1	PROPOSED CONTOUR
+TW: 2.8	PROPOSED TOP OF WALL ELEVATION

E&S LINE WORK

STANDARD SILT FENCE - HEIGHT
REINFORCED SILT FENCE - HEIGHT
SUPER SILT FENCE - HEIGHT
FILTER SOCK FENCE - HEIGHT
PROTECTIVE FENCE
REINFORCED PROTECTIVE FENCE
LIMIT OF DISTURBANCE
INLET PROTECTION

GENERAL ABBREVIATIONS

CLEARANCE CENTERLINE CONCRETE MASONRY UNIT DIAMETER ELECTRICAL CONTRACT

FOOT OR FEET

INSIDE DIAMETER

EL or ELEV **ELEVATION EXISTING**

GENERAL CONTRACT

INVERT

MECHANICAL CONTRACT

MAXIMUM

MINIMUM NOT APPLICABLE NOT TO SCALE OUTSIDE DIAMETER PLUMBING CONTRACT

PLATE SHEET SQUARE STATION **TYPICAL**

WATER WASTEWATER

MATERIAL

ALUMINUM

ASBESTOS CEMENT PIPE

CAST IRON CAST IRON SOIL PIPE CORRUGATED METAL PIPE

CHLORINATED POLYVINYL CHLORIDE PIPE

COPPER DUCTILE IRON

DUCTILE IRON PIPE FIBERGLASS REINFORCED PLASTIC

GALVANIZED IRON

GLASS LINED DUCTILE IRON PIPE

HIGH DENSITY POLYETHYLENE PRESTRESSED CONCRETE CYLINDER PIPE

CROSS-LINKED POLYETHYLENE

REINFORCED CEMENT CONCRETE PIPE

POLYVINYL CHLORIDE PIPE

STAINLESS STEEL

CIVIL/SITE ABBREVIATIONS

AVENUE BITUMINOUS BOULEVARD **CATCH BASIN** CHEMICAL CONDUIT CIRCLE CHLORINE **CONCRETE MONUMENT** COURT DRAIN FIRE HYDRANT GAS GAS CURB BOX **GAS VALVE HIGHWAY HYDRANT IRON PIN** LANE LONG WATER SERVICE MACADAM MANHOLE **MECHANICAL JOINT** NETWORK CABLE **OVERHEAD ELECTRICAL OVERHEAD TELEPHONE** PROPERTY LINE PIPELINE MARKER POINT OF CURVE

POINT OF INTERSECTION POINT OF BEGINNING POINT OF ENDING POINT ON LINE POINT OF TANGENT

POINT OF VERTICAL CURVE POINT OF VERTICAL TANGENT

RESTRAINED JOINT RAW WATER

SANITARY SEWER STORM DRAIN

STORM SEWER

SHORT WATER SERVICE UNDERGROUND ELECTRIC UNDERGROUND TELEPHONE

SODIUM HYPOCHLORITE

WEDGE ACTION RETAINING GLAND

WATER CURB BOX WATER SERVICE WATER VALVE

> Know what's **below**. Call before you dig.

DETAILED DESIGN

© GANNETT FLEMING, INC. 2023

CADD DESIGNED AS NOTED CM CHECKED DATE KW

GANNETT FLEMING MIAMI, FLORIDA

BROWARD COUNTY, FLORIDA TASK 4.0 UTILITY RELOCATION -JOHNSON STREET

CITY OF HOLLYWOOD, FLORIDA

LEGEND AND ABBREVIATIONS

SHEET No. 079373

APRIL 2025

THIS DRAWING IS AND SHALL REMAIN THE PROPERTY OF GANNETT FLEMING, INC. AND ANY MISUSE, REUSE, ALTERATIONS, ADDITIONS, AND/OR DELETIONS OF THESE DRAWINGS ON PROJECT EXTENSIONS OR OTHER PROJECTS SHALL BE AT THE USER'S SOLE RISK AND WITHOUT LIABILITY TO GANNETT FLEMING, INC. IN THE EVENT THAT A CONFLICT ARISES BETWEEN THE SEALED DRAWINGS AND THE ELECTRONIC FILES, THE SEALED DRAWINGS WILL GOVERN.

- 1. THE LOCATION AND SIZE OF ALL EXISTING UTILITIES AND TOPOGRAPHY HAVE BEEN PREPARED FROM INFORMATION AVAILABLE TO THE ENGINEER. THIS INFORMATION IS NOT GUARANTEED AND IT IS THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE EXACT LOCATION OF ANY EXISTING UTILITIES AND TOPOGRAPHY PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL VERIFY ALL UTILITIES, BY ELECTRONIC METHODS AND BY HAND EXCAVATION IN COORDINATION WITH ALL UTILITY COMPANIES. PRIOR TO BEGINNING ANY CONSTRUCTION OPERATIONS. THIS WORK BY THE CONTRACTOR SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT AND NO ADDITIONAL COMPENSATION SHALL BE ALLOWED.
- 2. ALL ELEVATIONS REFER TO U.S.G.S. NAVD 88 DATUM. SEE TOPOGRAPHICAL SURVEY PREPARED BY FR ALEMAN
- 3. HORIZONTAL CONTROL IS BASED UPON STATE COORDINATE SYSTEM. SEE TOPOGRAPHICAL SURVEY PREPARED BY FR ALEMAN AND ASSOCIATES DATED 12/13/2024.
- 4. FROM INVESTIGATIONS AND FIELD SURVEYS, IT IS ASSUMED THAT LOCATIONS OF PHYSICAL CONDITIONS. UTILITIES, ETC., ARE APPROXIMATE AND THE NATURE OF MATERIALS IS NOT GUARANTEED.
- 5. THE CONTRACTOR SHALL BE REQUIRED TO VERIFY ALL CONDITIONS AND DIMENSIONS OF THE JOB SITE BEFORE PROCEEDING WITH THE WORK AND SHALL MAKE MINOR ADJUSTMENTS AS REQUIRED ON THE JOB. SUCH

ADJUSTMENTS ARE TO BE APPROVED BY THE ENGINEER AND THE OWNER.

- 6. LOCATION, SIZE, AND DEPTH OF EXISTING UTILITY LINES SHALL BE VERIFIED BY THE CONTRACTOR IN ADVANCE OF THE CONSTRUCTION. EXTREME CARE SHALL BE EXERCISED WHEN EXCAVATING EXISTING UTILITY LINES. ANY DAMAGE TO UTILITIES SHALL BE REPAIRED BY CONTRACTOR AT NO ADDITIONAL COST TO OWNER.
- 7. THE CONTRACTOR SHALL SUSTAIN IN THEIR PLACES AND PROTECT FROM DIRECT OR INDIRECT INJURY ALL PIPES, CONDUITS, TRACKS, UTILITY POLES, GUIDE RAILS, GUIDE POSTS, WALLS, FOUNDATIONS, BUILDINGS, AND OTHER STRUCTURES OR PROPERTY IN THE VICINITY OF HIS WORK, WHETHER ABOVE OR BELOW GROUND, OR THAT MAY APPEAR IN THE TRENCH, PIPES AND UNDERGROUND CONDUITS EXPOSED AS A RESULT OF THE CONTRACTOR'S OPERATIONS SHALL BE ADEQUATELY SUPPORTED ALONG THEIR ENTIRE EXPOSED LENGTH.
- 8. THE CONTRACTOR SHALL CONFIRM AND VERIFY IN FIELD THAT THE PROPOSED STORM CULVERT WILL NOT IMPACT THE EXISTING PYLON SIGN FOUNDATION.
- 9. THE CONTRACTOR SHALL COORDINATE WITH THE OWNER OF THE EXISTING UTILITY POLES ALONG THE SOUTH SIDE OF JOHNSON STREET TO COORDINATE STABILIZING THE POLES DURING CONSTRUCTION AND DESIGNING AND RELOCATING THE GUY WIRE SUPPORTS.
- 10. THE CONTRACTOR SHALL EXERCISE SPECIAL CARE WHEN WORKING IN RIGHT OF WAYS SO AS NOT TO DAMAGE TREES AND SHRUBS THAT ARE TO BE MAINTAINED. ALL SIGNS, MAILBOXES, FENCES, LAWNS, SHRUBS, HEDGES, TREES, OTHER LANDSCAPING, DRIVEWAYS, IRON PINS, CONCRETE MONUMENTS, ETC., DISTURBED DURING CONSTRUCTION SHALL BE REPLACED IN KIND.

- 1. GENERAL: ALL CONSTRUCTION, MATERIALS AND TESTING SHALL CONFORM TO THE STANDARDS AND SPECIFICATIONS OF LOCAL, COUNTY, STATE AND NATIONAL CODES WHERE APPLICABLE.WHEN ANY OF THE GOVERNING REGULATORY AGENCIES' STANDARDS AND SPECIFICATIONS ARE IN CONFLICT, THE MORE STRINGENT OF THE TWO SHALL APPLY.
- 2. CONSTRUCTION SAFETY: ALL CONSTRUCTION SHALL BE DONE IN CONFORMANCE WITH THE RULES AND REGULATIONS OF THE OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA) AND THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (MUTCD).
- 3. TRENCH SAFETY ACT: CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR COMPLIANCE WITH THE STATE FLORIDA TRENCH SAFETY ACT.

III. PRECONSTRUCTION RESPONSIBILITIES

- 1. THE CONTRACTOR SHALL OBTAIN A SUNSHINE STATE ONE CALL AT 811 CERTIFICATION NUMBER AT LEAST 48 HOURS PRIOR TO BEGINNING ANY EXCAVATION OR CONSTRUCTION TO ALLOW UTILITY COMPANIES TO PROVIDE THE LOCATION OF ALL EXISTING UTILITIES. CONTACT UTILITIES NOTIFICATION CENTER AT 811 OR 1-800-432-4770 (SUNSHINE ONE CALL OF FLORIDA).
- 2. PRIOR TO BEGINNING CONSTRUCTION, THE CONTRACTOR SHALL VERIFY THE SIZE, LOCATION, ELEVATION, AND
- MATERIAL OF ALL EXISTING UTILITIES WITHIN THE AREA OF CONSTRUCTION. 3. EXISTING UTILITY LOCATIONS SHOWN ON THESE PLANS ARE APPROXIMATE. THE ENGINEER ASSUMES NO RESPONSIBILITY FOR THE ACCURACY OF EXISTING UTILITIES SHOWN OR FOR ANY EXISTING UTILITIES NOT
- 4. CONTRACTOR SHALL CONTACT ALL UTILITY COMPANIES PRIOR TO CONSTRUCTION, CONTRACTOR SHALL PROTECT ALL UTILITIES AND OTHER PROPERTY AND SHALL BE RESPONSIBLE FOR ANY DAMAGES INCURRED DURING CONSTRUCTION AND SHALL REPAIR SAID DAMAGES AT THE CONTRACTOR'S EXPENSE. KNOWN UTILITY COMPANIES IN PROJECT LIMITS INCLUDE, BUT ARE NOT LIMITED TO: (SEE LIST BELOW)

CITY OF HOLLYWOOD 2600 N. HOLLYWOOD BLVD

HOLLYWOOD, FL. 33020-4807 TEL: 954-921-3046

FLORIDA POWER & LIGHT COMPANY FPL 700 UNIVERSE BLVD. NORTH PALM BEACH, FL. 33408

TEL: 813-275-3700 WHITE ACRE TOWER 208 S. AKARD STREET

TECO PEOPLES GAS

TAMPA, FL. 33601

DALLAS, TX, 75202

TEL: 210-821-4105

702 N. FRANKLIN STREET

TEL: 800-299-9503

1. PRIOR TO THEIR CONSTRUCTION OR INSTALLATION, SHOP DRAWINGS SHALL BE SUBMITTED TO AND REVIEWED BY THE OWNER OR ENGINEER OF RECORD FOR SANITARY MANHOLES, CATCH BASINS, FIRE HYDRANTS, VALVES, OTHER MECHANICAL/ELECTRICAL EQUIPMENT AND MATERIALS AS DIRECTED WITHIN PROJECT SPECIFICATIONS AND/OR DRAWINGS WITH ASSOCIATED STRUCTURES, INCLUDING ALL DATA. CATALOGUE LITERATURE SHALL BE

2. PRIOR TO SUBMITTING SHOP DRAWINGS TO THE ENGINEER. THE CONTRACTOR SHALL REVIEW AND APPROVE THE DRAWINGS AND SHALL NOTE IN RED ANY DEVIATIONS FROM THE ENGINEERS' PLANS OR SPECIFICATIONS. SUBMITTED SHOP DRAWINGS SHALL FOLLOW AS SPECIFIED WITHIN SPECIFICATIONS.

SUBMITTED FOR WATER AND SEWER PIPES, FITTINGS, AND APPURTENANCES.

3. INDIVIDUAL SHOP DRAWINGS FOR ALL PRECAST STRUCTURES ARE REQUIRED. CATALOGUE LITERATURE WILL NOT BE ACCEPTED FOR PRECAST STRUCTURES.

1. TEMPORARY FACILITIES A. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO ARRANGE FOR OR SUPPLY TEMPORARY WATER SERVICE SANITARY FACILITIES AND ELECTRICITY TO HIS EMPLOYEES AND SUBCONTRACTORS FOR THEIR USE DURING

2. TRAFFIC REGULATION

AUTHORITY AND LOCAL OR COUNTY AUTHORITY.

A. MAINTENANCE OF TRAFFIC IN THE PUBLIC RIGHT-OF-WAY SHALL BE IN ACCORDANCE WITH THE MUTCD. B. ALL OPEN TRENCHES AND HOLES ADJACENT TO ROADWAYS OR WALKWAYS SHALL BE PROPERLY MARKED AND BARRICADED TO ASSURE THE SAFETY OF BOTH VEHICULAR AND PEDESTRIAN TRAFFIC. NO TRENCHES OR HOLES NEAR WALKWAYS OR IN ROADWAYS OR THEIR SHOULDERS ARE TO BE LEFT OPEN

DURING NIGHTTIME HOURS WITHOUT EXPRESS PERMISSION OF THE ENGINEER, OWNER/MUNICIPAL

- C. ALL CONSTRUCTION WITHIN FDOT R/W MUST CONFORM WITH FDOT SPECIFICATIONS, STANDARDS AND PERMIT REQUIREMENTS. NO WORK SHALL COMMENCE WITHIN FDOT R/W'S WITHOUT AN FDOT PERMIT. FULL LANE WIDTH RESTORATION TO MATCH EXISTING PAVEMENT SECTION IS REQUIRED IN ACCORDANCE WITH STANDARDS FOR PROPOSED WORK WITHIN FDOT R/W.
- D. CONTRACTOR SHALL PREPARE AND SUBMIT MAINTENANCE OF TRAFFIC PLAN (MOT) WHERE REQUIRED BY FEDERAL, STATE, COUNTY OR LOCAL AGENCIES HAVING JURISDICTION. CONTRACTOR SHALL OBTAIN ALL REQUIRED APPROVALS AND PERMITS ASSOCIATED WITH THE MOT'S. ALL MOT'S TO BE ATSSA CERTIFIED.

VI. PROJECT CLOSEOUT

1. CLEANING OUT

- A. DURING CONSTRUCTION, THE PROJECT SITE AND ALL ADJACENT AREAS SHALL BE MAINTAINED IN A NEAT AND CLEAN MANNER. UPON FINAL CLEAN UP, THE PROJECT SITE SHALL BE LEFT CLEAR OF ALL SURPLUS MATERIAL OR TRASH. THE PAVED AREAS SHALL BE SWEPT BROOM CLEAN AS DIRECTED BY THE ENGINEER.
- B. THE CONTRACTOR SHALL RESTORE OR REPLACE, WHEN AND AS DIRECTED BY THE ENGINEER OF OWNER/MUNICIPAL AUTHORITY, ANY PUBLIC OR PRIVATE PROPERTY DAMAGED BY HIS WORK, EQUIPMENT, EMPLOYEES OR THOSE OF HIS SUBCONTRACTORS TO A CONDITION AT LEAST EQUAL TO THAT EXISTING IMMEDIATELY PRIOR TO THE BEGINNING OF OPERATIONS. TO THIS END, THE CONTRACTOR SHALL DO AS REQUIRED ALL NECESSARY HIGHWAY OR DRIVEWAY, WALK, IRRIGATION AND LANDSCAPING WORK. SUITABLE MATERIALS AND METHODS SHALL BE USED FOR SUCH RESTORATION.
- C. WHERE MATERIAL OR DEBRIS HAS WASHED OR FLOWED INTO OR BEEN PLACED IN WATER COURSES, DITCHES, DRAINS, CATCH BASINS, OR ELSEWHERE AS A RESULT OF THE CONTRACTOR'S OPERATIONS, SUCH MATERIAL OR DEBRIS SHALL BE REMOVED, SATISFACTORILY DISPOSED OF DURING PROGRESS OF THE WORK, AND THE AREA KEPT IN A CLEAN AND NEAT CONDITION AS DIRECTED BY OF THE ENGINEER.
- D. CONTRACTOR SHALL DISPOSE OF ALL SITE DEMOLITION IN ACCORDANCE WITH STATE AND LOCAL REGULATIONS

2. PROJECT RECORD DOCUMENTS

- A. THE CONTRACTOR SHALL MAINTAIN ACCURATE AND COMPLETE RECORDS OF WORK ITEMS COMPLETED. B. PRIOR TO THE PLACEMENT OF ANY ASPHALT OR CONCRETE PAVEMENT. THE CONTRACTOR SHALL SUBMIT TO THE ENGINEER 'AS-BUILT PLANS SHOWING LIMEROCK BASE GRADES, AND ALL DRAINAGE, WATER, AND SEWER IMPROVEMENTS. PAVING OPERATIONS SHALL NOT COMMENCE UNTIL THE ENGINEER AND THE APPROVING AGENCY HAS REVIEWED THE 'AS-BUILTS'.
- C. ALL REQUIRED DENSITY AND LBR TEST RESULTS FOR SUBGRADE SHALL BE PROVIDED TO THE ENGINEER AND THE OWNER/MUNICIPAL AUTHORITY PRIOR TO PLACING LIMEROCK BASE MATERIAL
- D. ALL REQUIRED DENSITY AND LBR TEST RESULTS FOR LIMEROCK SHALL BE PROVIDED TO THE ENGINEER AND
- THE OWNER/MUNICIPAL AUTHORITY PRIOR TO PLACING ASPHALT. E. ALL 'AS-BUILT' INFORMATION SUBMITTED TO THE ENGINEER SHALL BE SUFFICIENTLY ACCURATE, CLEAR AND LEGIBLE TO THE SATISFACTION OF THE ENGINEER THAT THE INFORMATION PROVIDES A TRUE
- REPRESENTATION OF THE IMPROVEMENTS CONSTRUCTED. F. UPON COMPLETION OF THE CONSTRUCTION, THE CONTRACTOR SHALL SUBMIT TO THE ENGINEER OF RECORD ONE COMPLETE SET OF 'AS-BUILT' CONSTRUCTION DRAWINGS. THESE DRAWINGS SHALL BE MARKED TO SHOW 'RECORD DRAWING' OR 'AS-BUILT' CONSTRUCTION CHANGES AND DIMENSIONED LOCATIONS AND ELEVATIONS OF ALL IMPROVEMENTS AND SHALL BE SIGNED AND SEALED BY A REGISTERED; LAND SURVEYOR OR ENGINEER. FINAL AS-BUILT INFORMATION SHALL BE SUBMITTED ON AN AUTOCAD FORMAT AS DIRECTED BY THE ENGINEER.

VII. STORM DRAINAGE

A. GENERAL

- 1. STRUCTURE GRATES AND RIM ELEVATIONS AS SHOWN ON THE PLANS MAY BE ADJUSTED TO CONFORM TO NEW OR EXISTING GRADES AFTER APPROVAL FROM ENGINEER.
- 2. PIPE LENGTHS SHOWN ON CONSTRUCTION DRAWINGS ARE NOT REFERENCED TO THE CENTER OF STRUCTURES. THE PIPE LENGTHS ARE STRUCTURE TO STRUCTURE.
- 3. ALL CATCH BASIN GRATES SHALL BE ORIENTED TO ALIGN WITH CENTERLINE OF TRAVEL LANES, UNLESS OTHERWISE SHOWN.

- REINFORCED CONCRETE PIPE (RCP) SHALL CONFORM TO THE REQUIREMENTS OF FDOT STANDARD SPECIFICATIONS, SECTION 430 AND SECTION 449. PIPE JOINTS SHALL BE RUBBER GASKET JOINTS. PIPE JOINTS AND RUBBER GASKETS SHALL CONFORM TO THE REQUIREMENTS OF FDOT STANDARD SPECIFICATIONS, SECTION 942.
- a. ROUND RCP SHALL MEET THE REQUIREMENTS OF ASTM C 76 AND C 507 AS MODIFIED IN FDOT STANDARD SPECIFICATIONS, SECTION 449.
- b. ELLIPTICAL RCP SHALL MEET THE REQUIREMENTS OF ASTM C 507, CLASS HE-III, LATEST REVISION. EXCEPT FOR THE EXCEPTIONS AND MODIFICATIONS AS SPECIFIED IN FDOT STANDARD SPECIFICATIONS, SECTION 449-4.2.
- c. SLOTTED RCP SHALL MEET THE REQUIREMENTS OF STANDARD PLANS 443-001.
- 2. ALL DRAINAGE STRUCTURES SHALL BE CONSTRUCTED IN ACCORDANCE WITH SECTION 425 OF FDOT STANDARD SPECIFICATIONS AND SHALL BE PRECAST CONCRETE CONFORMING TO ASTM C478. CONCRETE SHALL ATTAIN A MINIMUM COMPRESSION STRENGTH OF 4000 PSI AT 28 DAYS. BLOCK CATCH BASINS WILL BE ALLOWED ONLY WITH APPROVAL OF THE ENGINEER.
- 3. SHOP DRAWINGS OF PRECAST STRUCTURES SHOWING ALL DIMENSIONS, REINFORCEMENTS AND SPECIFICATIONS SHALL BE SUBMITTED.

C. INSTALLATION:

- PIPE AND FITTINGS SHALL BE INSTALLED IN ACCORDANCE WITH THE REQUIREMENTS OF THE MANUFACTURER AND SECTION 430 OF FDOT STANDARD SPECIFICATIONS LATEST EDITION.
- 2. FRENCH DRAIN/EXFILTRATION TRENCH SHALL BE INSTALLED PER FDOT STANDARD SPECIFICATION SECTION 443 AND FDOT STANDARD PLANS 443-001.
- 3. ALL PIPE SHALL BE CAREFULLY LAID TRUE TO THE LINES AND GRADES EVEN WITH THE HUBS ORIENTED UPGRADE WITH TONGUE END FULLY ENTERED INTO THE HUB. PIPE WITH QUADRANT REINFORCEMENT SHALL BE INSTALLED IN A POSITION SUCH THAT THE MANUFACTURER'S MARKS DESIGNATING TOP AND BOTTOM OF THE PIPE SHALL NOT BE MORE THAN FIVE (5) DEGREES FROM THE VERTICAL PLANE THROUGH THE LONGITUDINAL AXIS OF THE PIPE. ANY PIPE NOT IN TRUE ALIGNMENT OR WHICH SHOWS ANY SETTLEMENT AFTER LAYING SHALL BE REMOVED AND RELAYED WITHOUT ADDITIONAL COMPENSATION.
- 4. BEDDING SHALL CONFORM WITH THE DETAIL DRAWINGS. BLOCKING UNDER THE PIPE IS NOT PERMITTED.
- 5. ALL PIPE AND STRUCTURES SHALL BE SOUND AND CLEAN BEFORE INSTALLATION. THE CONTRACTOR SHALL INSURE CLEANLINESS OF THE PIPE AND STRUCTURES DURING INSTALLATION AND BACKFILLING. AT THE CONCLUSION OF THE WORK THE CONTRACTOR SHALL THOROUGHLY CLEAN ALL OF THE PIPE, AFTER WHICH THE ENGINEER WILL EXAMINE. ALL DEBRIS, OBSTRUCTIONS, DEFECTIVE PIPES OR JOINTS DISCOVERED SHALL BE REPAIRED BY THE CONTRACTOR PRIOR TO ACCEPTANCE BY THE OWNER. ALL DRAINAGE PIPES AND STRUCTURES SHALL BE MAINTAINED IN WORKABLE CONDITION AND KEPT CLEAN UNTIL OWNER ACCEPTANCE.

VIII. GENERAL NOTES - ADDITIONAL NOTES TO CONTRACTOR

- 1. THE INFORMATION PROVIDED IN THESE DRAWINGS IS SOLELY TO ASSIST THE CONTRACTOR IN ASSESSING THE NATURE AND EXTENT OF CONDITIONS WHICH WILL BE ENCOUNTERED DURING THE COURSE OF CONSTRUCTION. THE CONTRACTORS ARE DIRECTED, PRIOR TO BIDDING, TO CONDUCT WHATEVER INVESTIGATIONS THEY DEEM NECESSARY TO ARRIVE AT THEIR OWN CONCLUSION REGARDING THE ACTUAL CONDITIONS THAT WILL BE ENCOUNTERED, AND UPON WHICH BIDS WILL BE BASED.
- 2. ALL CONSTRUCTION AND MATERIALS SHALL CONFORM TO APPLICABLE STANDARDS AND SPECIFICATIONS OF THE CITY OF HOLLYWOOD DEPARTMENT OF PUBLIC UTILITIES, ENGINEERING AND CONSTRUCTION SERVICES DIVISION (ECSD), AND ALL OTHER LOCAL, STATE AND NATIONAL CODES, WHERE APPLICABLE
- 3. LOCATIONS, ELEVATIONS, SIZES, MATERIALS, ALIGNMENTS, AND DIMENSIONS OF EXISTING FACILITIES, UTILITIES AND OTHER FEATURES ARE SHOWN ACCORDING TO THE BEST INFORMATION AVAILABLE AT THE TIME OF THE PREPARATION OF THESE PLANS: AND DO NOT PURPORT TO BE ABSOLUTELY CORRECT. ALSO, THERE MAY HAVE BEEN OTHER IMPROVEMENTS. UTILITIES. ETC., WITHIN THE PROJECT AREA WHICH WERE CONSTRUCTED AFTER THE PREPARATION OF THESE PLANS AND/OR THE ORIGINAL SITE SURVEY. THE CONTRACTOR SHALL VERIFY THE LOCATIONS, ELEVATIONS, AND OTHER FEATURES AFFECTING HIS/HER WORK PRIOR TO CONSTRUCTION, AND NOTIFY THE ENGINEER IMMEDIATELY WHEN CONFLICT BETWEEN DRAWINGS AND ACTUAL CONDITIONS ARE DISCOVERED. THE ENGINEER ASSUMES NO RESPONSIBILITY FOR ANY FACILITIES SHOWN OR NOT SHOWN ON THE PLANS. THE CONTRACTOR SHALL WORK AS NEEDED TO AVOID CONFLICT WITH EXISTING UTILITIES (NO ADDITIONAL COST SHALL BE PAID FOR THIS WORK). EXISTING UTILITIES SHALL BE MAINTAINED IN SERVICE DURING CONSTRUCTION UNLESS OTHERWISE APPROVED BY THE RESPECTIVE UTILITY OWNER.
- 4. THE CONTRACTOR SHALL COORDINATE WITH ALL UTILITIES TO ARRANGE FOR THE RELOCATION AND TEMPORARY SUPPORT OF UTILITY FEATURES, ETC. AS NECESSARY TO COMPLETE THE WORK.
- 5. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO LOCATE AND PROTECT ANY AND ALL EXISTING UTILITIES ON THIS PROJECT, AND TO ENSURE THAT EXISTING UTILITIES ARE MAINTAINED IN SERVICE DURING CONSTRUCTION UNLESS APPROVED OTHERWISE BY THE UTILITY OWNER.
- 6. CONTRACTOR SHALL ADJUST ALL EXISTING UTILITY CASTINGS INCLUDING VALVE BOXES, MANHOLES, HAND-HOLES, PULL-BOXES, STORMWATER INLETS, AND SIMILAR STRUCTURES IN CONSTRUCTION AREA TO BE OVERLAID WITH ASPHALT PAVEMENT.
- 7. THE CONTRACTOR IS REQUIRED TO OBTAIN ALL APPLICABLE CONSTRUCTION AND ENVIRONMENTAL PERMITS PRIOR TO THE START OF CONSTRUCTION.
- 8. THE CONTRACTOR SHALL NOTIFY CITY OF HOLLYWOOD AND FDOT AT LEAST 48 HOURS PRIOR TO BEGINNING CONSTRUCTION.

SHOP DRAWING APPROVAL, IF REQUIRED.

- 9. PRIOR TO THE COMMENCEMENT OF CONSTRUCTION AND INSTALLATION OF THE PROPOSED IMPROVEMENTS, SHOP DRAWINGS SHALL BE SUBMITTED TO CITY IN ACCORDANCE WITH THE CONTRACT DOCUMENT'S REQUIREMENTS, FOR APPROVAL. IN ADDITION, IT IS THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN ANY OTHER AGENCY
- 10. THE CONTRACTOR SHALL NOTIFY CITY IMMEDIATELY FOR ANY CONFLICT ARISING DURING CONSTRUCTION OF ANY IMPROVEMENTS SHOWN ON THESE DRAWINGS. THIS WORK BY THE CONTRACTOR SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT AND NO ADDITIONAL COMPENSATION SHALL BE ALLOWED.
- 11. THE CONTRACTOR SHALL COORDINATE WITH THE CITY OF HOLLYWOOD REGARDING STAGING AND STORAGE OF EQUIPMENT TO BE SITUATED ON THEIR PROPERTY AS SHOWN ON THE EROSION AND SEDIMENT CONTROL PLAN.
- 12. CONTRACTOR SHALL PROVIDE AN AREA TO STOCKPILE SOIL ON-SITE AS SHOWN ON THE EROSION & SEDIMENT CONTROL PLAN. UPON COMPLETION OF CONSTRUCTION, ALL MATERIAL SHALL BE REMOVED FROM THE SITE TO AN APPROVED STORAGE
- 13. CONTRACTOR SHALL CLEAN / SWEEP THE ROAD AT LEAST ONCE DAY OR AS REQUIRED
- 14. CONTRACTOR SHALL PROTECT CATCH BASINS WITHIN / ADJACENT TO THE CONSTRUCTION SITE AS REQUIRED BY NPDES REGULATIONS.
- 15. THE CITY OF HOLLYWOOD HAS A NOISE ORDINANCE (CHAPTER 100) WHICH STATES THAT THE CONSTRUCTION, ALTERATION, REPAIR, EXCAVATION, OR DEMOLITION OF ANY BUILDING OR STRUCTURE IS TO BE CONDUCTED NO EARLIER THAN 7:00AM AND NO LATER THAN 6:00PM. MONDAY THROUGH FRIDAY. SUCH WORK ON SATURDAYS IS TO BE CONDUCTED NO EARLIER THAN 8:00AM AND NO LATER THAN 6:00PM. NO SUCH WORK IS TO BE CONDUCTED ON SUNDAYS. ALL SUCH WORK IS TO BE CONDUCTED IN THE DESCRIBED HOURS AND ONLY AFTER OBTAINING ALL APPROPRIATE PERMITS AND APPROVALS FROM THE CITY OF HOLLYWOOD AND ALL OTHER APPLICABLE AGENCIES. SHOULD AN URGENT NECESSITY OR EMERGENCY CONDITION THAT REQUIRES SUCH WORK TO BE CONDUCTED OUTSIDE THESE HOURS OR ON SUNDAY ARISE, A REQUEST TO DO SO SHALL BE PROVIDED IN WRITING TO THE CITY'S CHIEF BUILDING OFFICIAL. NO SLICH CONSTRUCTION WORK MAY PROCEED OUTSIDE THE AROVE DESCRIBED TIME LIMITATIONS WITHOUT THE PREVIOUS WRITTEN APPROVAL OF THE CITY OF HOLLYWOOD.
- 16. SUITABLE EXCAVATED MATERIAL SHALL BE USED IN FILL AREAS. NO SEPARATE PAY ITEM FOR THIS WORK, INCLUDE COST IN OTHER ITEMS
- 17. ALL ROAD CROSSINGS ARE OPEN CUT AS PER THE REQUIREMENTS OF THE CITY OF HOLLYWOOD UNLESS OTHERWISE NOTED ON THE DRAWINGS.
- 18. THE CONTRACTOR SHALL REPLACE ALL PAVING, STABILIZING EARTH, DRIVEWAYS PARKING LOTS, SIDEWALKS, ETC. TO SATISFY THE INSTALLATION OF THE PROPOSED IMPROVEMENTS WITH THE SAME TYPE OF MATERIAL THAT WAS REMOVED DURING CONSTRUCTION OR AS DIRECTED BY CITY OF HOLLYWOOD ENGINEERING SERVICES AND CONSTRUCTION DIVISION FIFI D ENGINEER
- 19. THE CONTRACTOR SHALL NOT ENCROACH INTO PRIVATE PROPERTY WITH PERSONNEL MATERIAL OR EQUIPMENT. IN CASE WORK ON PRIVATE PROPERTY IS NEEDED, A CITY OF HOLLYWOOD "RIGHT OF ENTRY" FORM MUST BE SIGNED BY PROPERTY OWNER AND THE DIRECTOR OF PUBLIC UTILITIES. THE CONTRACTOR IS RESPONSIBLE TO MAINTAIN ACCESS AT ALL TIMES TO PRIVATE HOMES/BUSINESSES.
- 20. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DAMAGE, REMOVAL OR MODIFICATION, CAUSED TO ANY IRRIGATION SYSTEM (PRIVATE OR PUBLIC) ACCIDENTALLY OR PURPOSELY. THE CONTRACTOR SHALL REPLACE ANY DAMAGED, REMOVED OR MODIFIED IRRIGATION PIPES, SPRINKLER HEADS OR OTHER PERTINENT APPURTENANCES TO MATCH OR EXCEED EXISTING CONDITIONS AT NO ADDITIONAL COST TO THE CITY.
- 21. MAIL BOXES, FENCES OR OTHER PRIVATE PROPERTY DAMAGED DURING THE CONSTRUCTION OF THE PROPOSED IMPROVEMENTS SHALL BE REPLACED TO MATCH OR EXCEED EXISTING CONDITION.
- 22. CONTRACTOR SHALL PROVIDE MAINTENANCE OF TRAFFIC IN ACCORDANCE WITH FDOT AND CITY OF HOLLYWOOD DEPARTMENT OF PUBLIC UTILITIES STANDARDS.
- 23. NO TREES ARE TO BE REMOVED OR RELOCATED WITHOUT PRIOR APPROVAL FROM THE CITY FIELD ENGINEER.
- 24. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING THE NECESSARY TREE REMOVAL 25. OR RELOCATION PERMITS FROM THE CITY OF HOLLYWOOD BUILDING DEPARTMENT FOR TREES LOCATED IN THE PUBLIC RIGHT OF WAY.
- 26. IT IS THE INTENT OF THESE PLANS TO BE IN ACCORDANCE WITH APPLICABLE CODES AND AUTHORITIES HAVING JURISDICTION. ANY DISCREPANCIES BETWEEN THESE PLANS AND APPLICABLE REGULATORY STANDARDS / REQUIREMENTS SHALL BE IMMEDIATELY BROUGHT TO THE ATTENTION OF CITY OF HOLLYWOOD.

- 27. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING THE INTEGRITY OF AND MAKING THE REPAIRS TO EXISTING PAVEMENT, SIDEWALKS, PIPES, CONDUITS, CURBS, CABLES, ETC., WHETHER OR NOT SHOWN ON THE PLANS DAMAGED AS A RESULT OF THE CONTRACTORS OPERATIONS AND/OR THOSE OF HIS SUBCONTRACTORS, AND SHALL RESTORE THEM PROMPTLY AT NO ADDITIONAL EXPENSE TO THE OWNER. CONTRACTOR SHALL REPORT ANY DAMAGE TO SIDEWALK, DRIVEWAY, ETC., PRIOR TO BEGINNING WORK IN ANY AREA.
- 28. WHERE NEW PAVEMENT MEETS EXISTING, CONNECTION SHALL BE MADE IN A NEAT STRAIGHT LINE AND FLUSH WITH EXISTING PAVEMENT TO MATCH EXISTING
- 29. UNDER NO CIRCUMSTANCES SHALL THE CONTRACTOR LEAVE EXCAVATED TRENCHES, OR PORTIONS OF TRENCHES, EXPOSED OR OPENED AT THE END OF THE WORKING DAY, WEEKENDS, HOLIDAYS OR OTHER TIMES, WHEN THE CONTRACTOR IS NOT WORKING, UNLESS OTHERWISE DIRECTED. ALL TRENCHES SHALL BE COVERED, FIRMLY SECURED AND MARKED ACCORDINGLY FOR PEDESTRIAN / VEHICULAR TRAFFIC.
- 30. ALL EXCAVATED MATERIAL REMOVED FROM THIS PROJECT SHALL BE DISPOSED OF OFF THE PROPERTY BY THE CONTRACTOR AT THE CONTRACTOR'S EXPENSE
- 31. ALL DUCTILE IRON PRODUCTS SHALL BE DOMESTIC MADE HEAVY DUTY CLASSIFICATION SUITABLE FOR HIGHWAY TRAFFIC LOADS, OR 20,000
- 32. ALL GRASSED AREAS AFFECTED BY CONSTRUCTION SHALL BE SEEDED OR RE-SODDED AS SHOWN ON THE PROJECT PLANS AND
- 33. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROVISION, INSTALLATION AND MAINTENANCE OF ALL TRAFFIC CONTROL AND SAFETY DEVICES, IN ACCORDANCE WITH SPECIFICATIONS OF THE LATEST REVISION OF FDOT DESIGN STANDARDS. IN ADDITION, THE CONTRACTOR IS RESPONSIBLE FOR THE RESETTING OF ALL TRAFFIC CONTROL AND INFORMATION SIGNAGE REMOVED DURING THE CONSTRUCTION PERIOD.
- 34. EXCAVATED OR OTHER MATERIAL STORED ADJACENT TO OR PARTIALLY UPON A ROADWAY PAVEMENT SHALL BE ADEQUATELY MARKED FOR TRAFFIC SAFETY AT ALL TIMES.
- 35. TEMPORARY PATCH MATERIAL MUST BE ON THE JOB SITE WHENEVER PAVEMENT IS CUT, OR THE CITY'S INSPECTOR WILL SHUT THE JOB
- 36. CONTRACTOR MUST PROVIDE FLASHER ARROW SIGNAL FOR ANY LANE THAT IS CLOSED OR DIVERTED.
- 37. CONTRACTOR SHALL NOTIFY LAW ENFORCEMENT AND FIRE PROTECTION SERVICES TWENTY-FOUR (24) HOURS IN ADVANCE OF TRAFFIC DETOUR IN ACCORDANCE WITH SECTION 336.07 OF FLORIDA
- 38. CONTRACTOR TO RESTORE PAVEMENT TO ORIGINAL CONDITION AS
- 39. CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING DEWATERING PER SPECIFICATION SECTION 02140 DEWATERING
- 40. WHEN PVC PIPE IS USED, A METALLIZED MARKER TAPE SHALL BE INSTALLED CONTINUOUSLY 18 INCHES ABOVE THE PIPE. THE MARKER TAPE SHOULD BE IMPRINTED WITH A WARNING THAT THERE IS BURIED. PIPE BELOW. THE TAPE SHALL BE MAGNA TEC, AS MANUFACTURED BY THOR ENTERPRISES INC. OR APPROVED EQUAL.
- 41. ALL CONNECTIONS TO EXISTING MAINS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. WATER CONNECTIONS SHALL BE METERED, AND THE COST OF WATER AND TEMPORARY METER SHALL BE BORNE BY THE CONTRACTOR.
- 42. A COMPLETE AS-BUILT SURVEY SHALL BE ACCURATELY RECORDED OF THE UTILITY SYSTEM DURING CONSTRUCTION. AS-BUILT SURVEY SHALL BE SUBMITTED TO CITY SIGNED AND SEALED BY A FLORIDA REGISTERED SURVEYOR PRIOR TO FINAL INSPECTION AND ACCEPTANCE OF PROJECT. THE COST OF SIGNED AND SEALED AS-BUILTS SHALL BE COVERED IN OVERALL BID. THE AS-BUILT SURVEY
 - A. PLAN VIEW SHOWING THE HORIZONTAL LOCATIONS OF EACH MANHOLE, INLET, VALVE, FITTING, BEND AND HORIZONTAL PIPE DEFLECTIONS WITH COORDINATES AND IN REFERENCE TO A SURVEY BASELINE OR RIGHT-OF-WAY CENTERLINE
 - B. THE PLAN VIEW SHALL ALSO SHOW SPOT ELEVATIONS OF THE TOP OF THE MAIN (WATER MAIN AND FORCE MAIN) OR PIPE INVERTS (GRAVITY MAINS) AT INTERVALS NOT TO EXCEED 100 FEET AS MEASURED ALONG MAIN. THE PLAN VIEW SHALL ALSO INCLUDE SPOT ELEVATIONS AT EACH MANHOLE, INLET, VALVE, FITTING, BEND AND VERTICAL PIPE DEFLECTION.
 - C. THE PLAN VIEW SHALL ALSO SHOW THE HORIZONTAL SEPARATION FROM UNDERGROUND UTILITIES IMMEDIATELY ADJACENT OR PARALLEL TO THE NEW MAIN.
 - D. PROFILE VIEW WITH SPOT ELEVATIONS OF THE TOP OF THE MAIN (WATER MAIN AND FORCE MAIN) OR PIPE INVERT (GRAVITY MAIN) AND OF THE FINISHED GRADE OR MANHOLE RIM DIRECTLY ABOVE THE MAIN AT INTERVALS NOT TO EXCEED 100 FEET AS MEASURED ALONG THE MAIN. THE PROFILE VIEW SHALL ALSO INCLUDE SPOT ELEVATIONS AT EACH MANHOLE. INLET. VALVE. FITTING. BEND AND VERTICAL PIPE DEFLECTION.
 - E. THE PROFILE VIEW SHALL SHOW ALL UNDERGROUND UTILITIES CROSSING THE NEW MAIN AND THE VERTICAL SEPARATION PROVIDED BETWEEN THAT UNDERGROUND UTILITY AND THE NEW MAIN.
- 43. PAVEMENT RESTORATION SHALL BE CARRIED OUT IN ACCORDANCE WITH THE REQUIREMENTS OF THE CITY.
- 44. MINIMUM HORIZONTAL SEPARATION BETWEEN STORM STRUCTURES AND WATER MAINS SHALL BE 18".
- 45. WHENEVER IT IS NECESSARY, IN THE INTEREST OF SAFETY, TO BRACE THE SIDES OF A TRENCH, THE CONTRACTOR SHALL FURNISH, PUT IN PLACE AND MAINTAIN SUCH SHEETING OR BRACING AS MAY BE NECESSARY TO SUPPORT THE SIDES OF THE EXCAVATION TO ENSURE PERSONNEL SAFETY. AND TO PREVENT MOVEMENT WHICH CAN IN ANY WAY DAMAGE THE WORK OR ENDANGER ADJACENT STRUCTURES. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR THE SEQUENCE. METHODS AND MEANS OF CONSTRUCTION, AND FOR THE IMPLEMENTATION OF ALL OSHA AND OTHER SAFETY REQUIREMENTS.
- 46. PROPOSED STORM DRAINAGE IMPROVEMENTS SHALL BE IN ACCORDANCE WITH THE FLORIDA DOT STANDARD DETAILS AND SPECIFICATIONS AND CITY OF HOLLYWOOD STANDARDS AND SPECIFICATIONS UNLESS OTHERWISE NOTED ON PLANS.
- 47. ANY KNOWN OR SUSPECTED HAZARDOUS MATERIAL FOUND ON THE PROJECT BY THE CONTRACTOR SHALL BE IMMEDIATELY REPORTED TO THE CITY OF HOLLYWOOD REPRESENTATIVE WHO SHALL DIRECT THE CONTRACTOR TO PROTECT THE AREA OF KNOWN OR SUSPECTED CONTAMINATION FROM FURTHER ACCESS UNTIL AN ADEQUATE COURSE OF ACTION IS DETERMINED.

- IX. STORM WATER POLLUTION PREVENTION PLAN (SWPPP) REQUIREMENTS . CONTRACTOR IS RESPONSIBLE FOR PREPARING SWPPP. SUBMITTING SWPPP TO FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION, IMPLEMENTING AND MAINTAINING SWPPP DURING CONSTRUCTION ACTIVITIES AND ABIDING BY SWPPP REQUIREMENTS UNTIL FINAL CERTIFICATION OF SITE CONSTRUCTION IS OBTAINED.
- 2. ALL BMPS SHALL BE INSTALLED PRIOR TO CONSTRUCTION COMMENCEMENT AND REMOVED UPON SITE STABILIZATION/PROJECT
- 1. CONTRACTOR IS RESPONSIBLE FOR DETERMINATION/INVESTIGATION OF SUBSURFACE CONDITIONS. ALL UNSUITABLE MATERIAL SURFACE AND SUBSURFACE WITHIN AREAS OF CONSTRUCTION IS TO BE REMOVED AND DISPOSED OF IN ACCORDANCE WITH ALL APPLICABLE REGULATIONS. UNSUITABLE MATERIAL INCLUDES BUT IS NOT LIMITED
- A. DEBRIS, ORGANICS/MUCK, AND PLASTIC MATERIAL ALL UNSUITABLE MATERIAL REMOVED SHALL BE REPLACED WITH SUITABLE MATERIAL.

(I. STORM WATER POLLUTION PREVENTION PLAN NOTES: 1. ALL ROADWAYS SHALL BE KEPT CLEAN FROM DUST DURING CONSTRUCTION.

XII. SUGGESTED SEQUENCE OF CONSTRUCTION

- 1. CONTRACTOR SHALL ENSURE ALL NECESSARY PERMITS HAVE BEEN OBTAINED.
- 2. CONTRACTOR SHALL CONTACT FLORIDA ONE CALL SYSTEM AT 811 48 HOURS MINIMUM PRIOR TO CONSTRUCTION FOR A FIELD MARK OUT OF ALL EXISTING UTILITIES. 3. PRIOR TO CONSTRUCTION CONTRACTOR SHALL MEET WITH ALL APPLICABLE
- ENTITIES FOR CONSTRUCTION INCLUDING BUT NOT LIMITED TO CITY OF HOLLYWOOD, FLORIDA DOT, ENGINEER OF RECORD AND ANY COUNTY OR STATE AGENCY HAVING JURISDICTION FOR A PRE-CONSTRUCTION MEETING. 4. ALL TEMPORARY MAINTENANCE AND PROTECTION OF TRAFFIC MEASURES
- ARE TO BE IN PLACE PRIOR TO START OF CONSTRUCTION. 5. CONTRACTOR SHALL ESTABLISH A STAGING AREA AND STABILIZED
- CONSTRUCTION ACCESS ON THE CITY OF HOLLYWOOD PROPERTY ON THE NORTH SIDE OF JOHNSON STREET.
- CONTRACTOR SHALL ENSURE ALL TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES ARE IN PLACE PRIOR TO START OF CONSTRUCTION 7. THE SITE CONTRACTOR SHALL PROVIDE FOR DEWATERING OPERATIONS DURING CONSTRUCTION TO MAINTAIN GROUNDWATER ELEVATION A MINIMUM OF ONE FOOT BELOW THE BOTTOM OF TRENCH ELEVATION AT ALL
- 8. THE CONTRACTOR SHALL ALSO PROVIDE FOR STABILIZED CONSTRUCTION ACCESS TO THE SOUTH SIDE OF JOHNSON STREET.
- 9. THE CONTRACTOR SHALL MAINTAIN POSITIVE DRAINAGE FOR THE I-95 CULVERT OUTFALL SOUTH OF JOHNSON STREET AND THE DRAINAGE CHANNEL SOUTH OF JOHNSON STREET.
- 10. THE CONTRACTOR SHALL COORDINATE WITH LOCAL UTILITIES WHERE EXISTING FACILITIES WILL BE IMPACTED DURING CONSTRUCTION SUCH AS STABILIZING EXISTING UTILITY POLES AND POTENTIAL RELOCATION OF GUY WIRE SUPPORTS. THE SITE CONTRACTOR SHALL ALSO CONFIRM THE LIMITS OF THE FOOTING FOR THE EXISTING PYLON SIGN SOUTH OF JOHNSON
- 11. THE SITE CONTRACTOR MUST PROVIDE A SHEETING AND SHORING PLAN PRIOR TO THE START OF CONSTRUCTION THAT MUST BE REVIEWED BY THE
- ENGINEER OF RECORD. 12. ALL CONSTRUCTION MUST START FROM THE NORTH SIDE OF JOHNSON STREET. THE STORM CULVERT CROSSING OF JOHNSON STREET TRENCH AND PAVEMENT RESTORATION WORK WILL NEED TO BE COMPLETED SUCH THAT ACCESS FROM THE NORTH TO SOUTH SIDES OF THE STREET CAN BE PROVIDED FOR CONSTRUCTION DUE TO LIMITED SPACE FOR STAGING ON
- THE SOUTH SIDE OF JOHNSON STREET. 13. THROUGHOUT CONSTRUCTION, THE SITE CONTRACTOR SHALL CONFIRM THERE IS ADEQUATE COMPACTION OF THE TRENCH BOTTOM TO ENSURE COMPACTION OF SOILS WILL BE ADEQUATE TO PROVIDE FOR 95% MAXIMUM
- DRY DENSITY PRIOR TO PLACING PIPE BEDDING MATERIAL. 14. ALL EXISTING UTILITIES CROSSING THE CULVERT ARE TO BE COMPLETELY EXPOSED AND SIZE AND LOCATIONS VERIFIED. THE CONTRACTOR WILL NEED TO SUPPORT THE EXISTING UTILITIES DURING CONSTRUCTION DURING TRENCHING OPERATIONS. THE CONTRACTOR MUST PROVIDE A PLAN FOR SUPPORTING EXISTING UTILITIES PRIOR TO CONSTRUCTION THAT MUST BE REVIEWED BY THE ENGINEER OF RECORD AND APPLICABLE LOCAL
- 15. AS PIPE AND STORM CULVERT PLACEMENT PROGRESSES THE SITE CONTRACTOR SHALL PERFORM THE TRENCH RESTORATION AND SHALL WORK UNDER THE DIRECTION OF A GEOTECHNICAL ENGINEER TO ENSURE ADEQUATE COMPACTION OF ALL TRENCH BEDDING AND BACKFILL
- 16. UPON COMPLETION OF CULVERT INSTALLATION, GRADE UPSTREAM AND DOWNSTREAM (NORTH AND SOUTH) CHANNELS TO FINAL GRADES AND PLACE PERMANENT VEGETATIVE COVER.

17. UPON COMPLETION OF PROJECT, ALL TEMPORARY EROSION CONTROL

18. ONCE ALL TRENCH, SIDEWALK, CURB, AND PAVEMENT RESTORATION WORK IS COMPLETED, APPLY TOP COAT TO JOHNSON STREET CART WAY AND PLACE ALL PREVIOUSLY REMOVED PAVEMENT MARKINGS AND SIGNS.

MEASURES MUST BE REMOVED.

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BROWARD COUNTY, FLORIDA TASK 4.0 UTILITY RELOCATION -

079373

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JOHNSON STREET

CITY OF HOLLYWOOD, FLORIDA

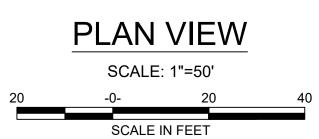
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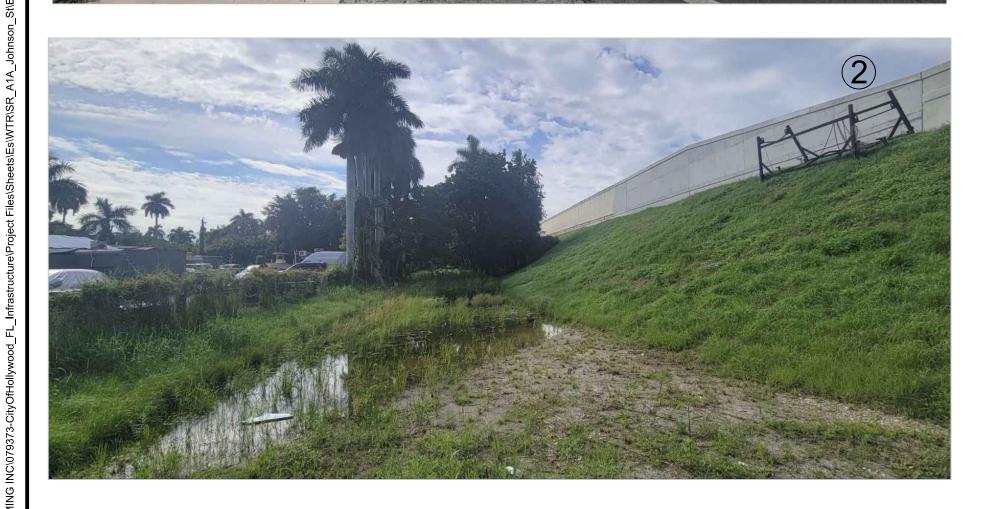
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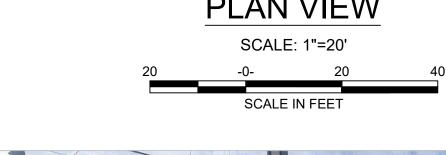
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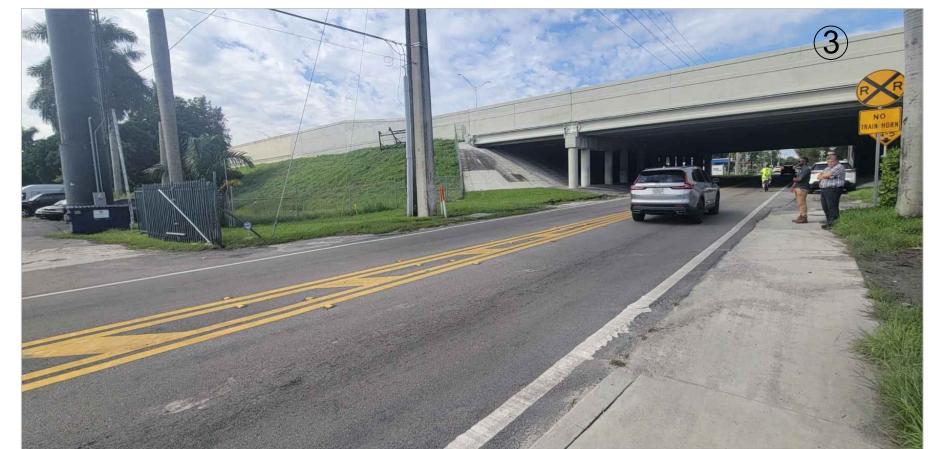
KEY MAP

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MIAMI, FLORIDA

CITY OF HOLLYWOOD, FLORIDA
BROWARD COUNTY, FLORIDA

TASK 4.0 UTILITY RELOCATION JOHNSON STREET

EXISTING CONDITIONS PLAN

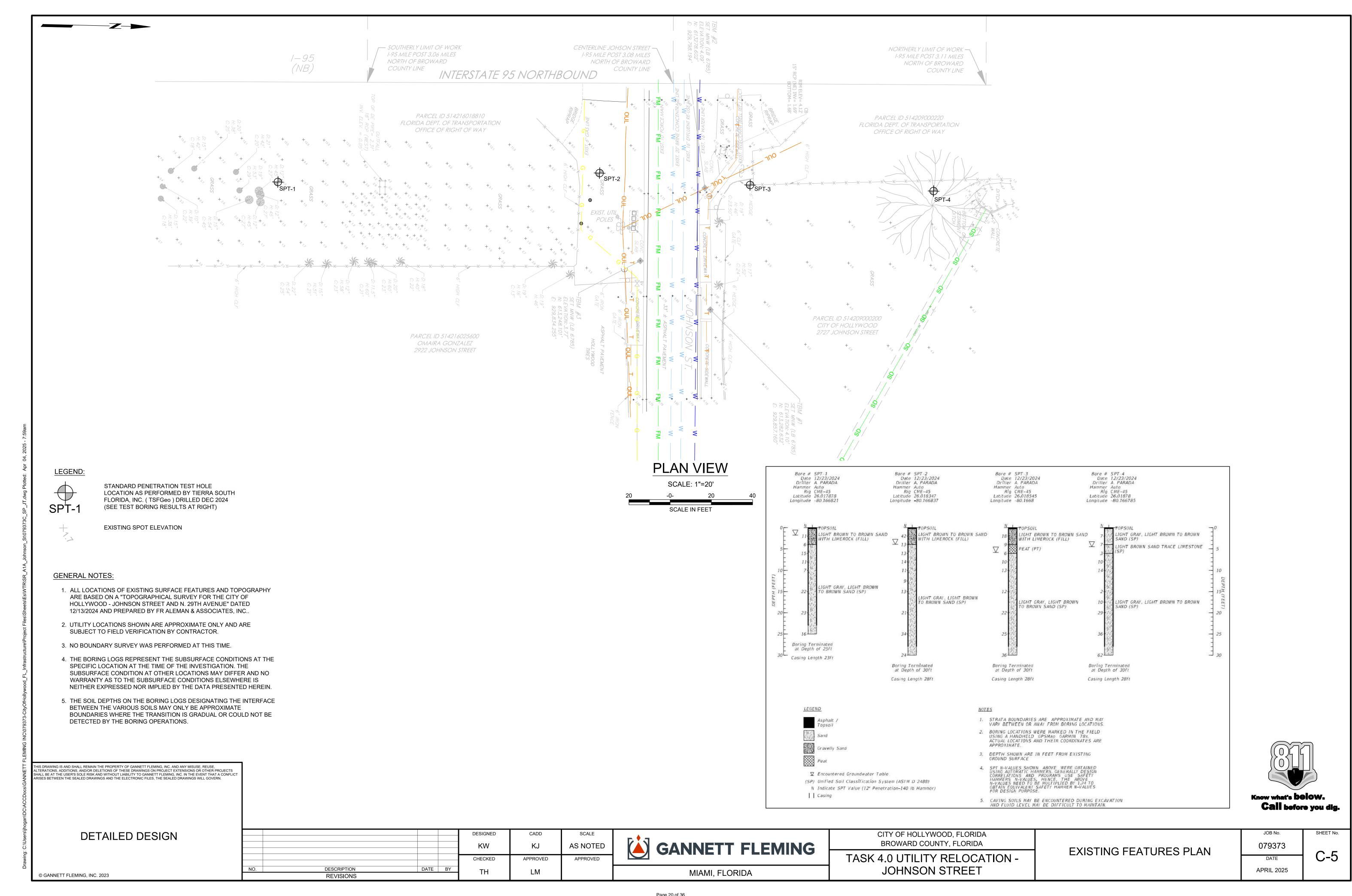
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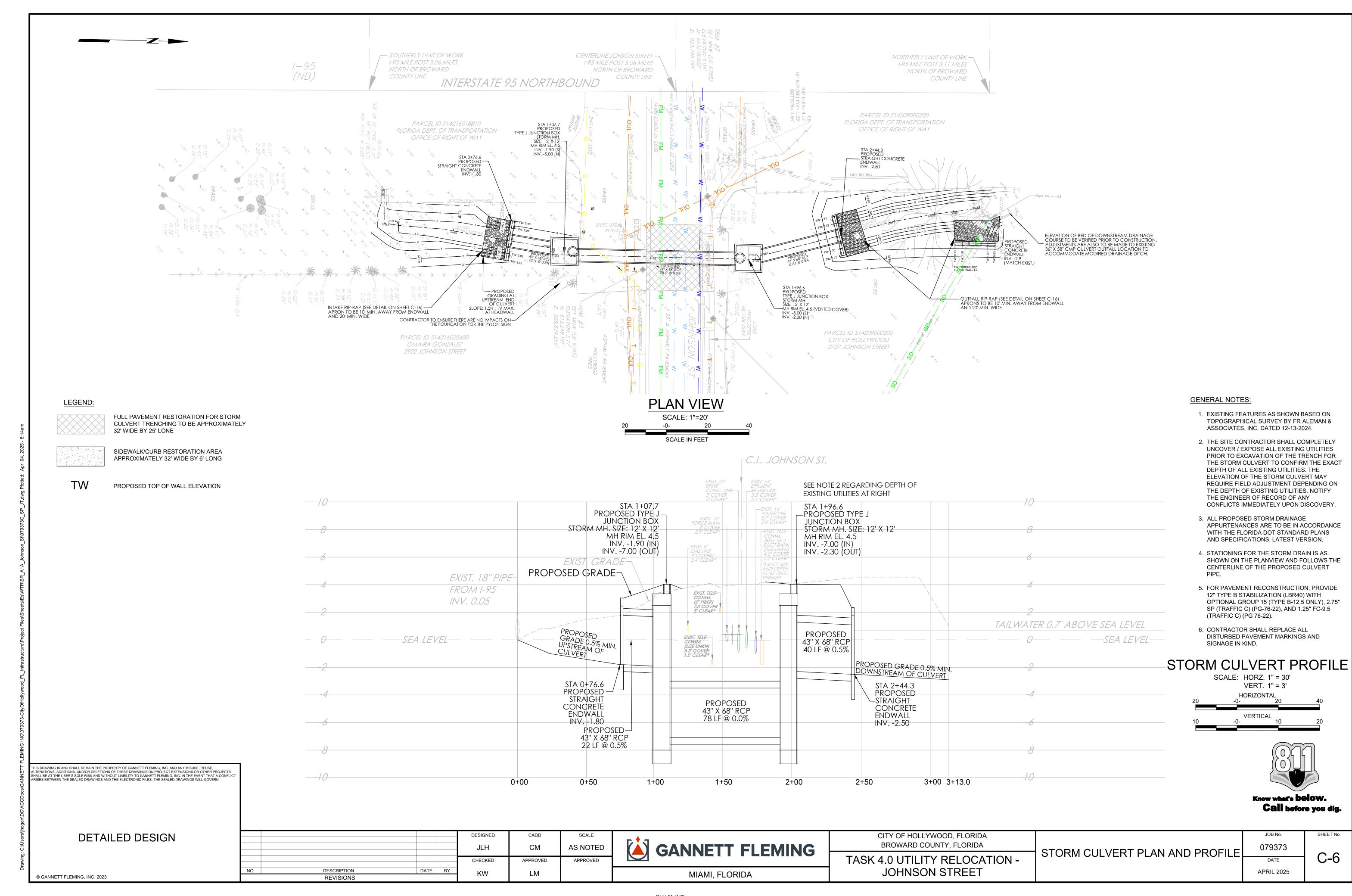
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APRIL 2025

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GENERAL NOTES:

- 1. Work this Index with Specification 425 and Index 425-001.
- 2. Type P standard structure bottoms are 4'-0"diameter and smaller (Alt. A) and 3'-6" square (Alt. B) . Larger standard structure bottoms are designated Type J. Risers are permitted for all structures.
- 3. Walls of circular structures (Alt. A) constructed in place may be of brick or reinforced concrete. Construct precast and rectangular structures (Alt. B) with reinforced concrete only.
- 4. Wall thickness and reinforcement are for either reinforced cast-in-place or precast concrete units except that precast circular units may be furnished with walls in accordance with ASTM C478 (See Table 1).
- 5. Top and bottom slab thickness and reinforcement are for precast and cast-in-place construction. Use Class II concrete, except when Class IV concrete is shown in the Plans.
- 6. Alt. A or Alt. B structure bottoms may be used in conjunction with curb inlet tops Types 1, 2, 3, 4, 5, 6, 9, and 10, and any manhole or junction box. Alt. B structure bottoms may be used in conjunction with curb inlet Types 7 & 8, or any ditch bottom inlet.
- 7. Rectangular structures may be rotated as directed by the Engineer in order to facilitate connections between the structure walls and pipes.
- 8. Use straight embedment reinforcement in top and bottom slabs ,except when ACI hooks are specifically required.
- 9. Construct corner fillets as shown for rectangular structures used with circular risers and inlet throats, and when used on skew with rectangular risers, inlets, and inlet throats. Construct fillets in the top slab of the Alt. A structure bottoms when used with the Type B risers. Reinforce each fillet with two #5 bars.
- 10. Units larger than specified standards may be substituted at the contractor's option when these units will not cause or increase the severity of utility conflicts. Furnish such larger units at no additional cost to the Department. Larger Alt. A units cannot replace Alt. B units without approval of the Engineer. This Note applies to this Index only.

REINFORCEMENT NOTES:

- 1. Locate wall reinforcement in rectangular structures as shown in the WALL REINFORCEMENT SPLICE DETAILS in Index 425-001.
- 2. Provide a minimum 2"clear cover for all reinforcement unless otherwise noted and except for 3'6"diameter ASTM C478 units.
- 3. Additional bars used to restrain hole formers for precast structures with grouted pipe connections may be left flush with the hole surface.
- 4. Cut or bend reinforcement at pipe openings to maintain cover.
- 5. Remove exposed ends of reinforcing at precast pipe openings and grouted joints to 1" below the concrete surface and seal with a Type F Epoxy meeting the requirements of Specification 926.
- 6. Equivalent area smooth or deformed welded wire reinforcement may be substituted in accordance with Index 425-001.

	TABLE OF CONTENTS:
Sheet	Description
1	General Notes and Contents
2	Dimensional and Reinforcing Details
3	Tables 1, 2, 3, and 4
4	Tables 5 and 6

REVISION 11/01/20

≥ DESCRIPTION:

FDOT

FY 2023-24 STANDARD PLANS

STRUCTURE BOTTOMS TYPE J AND P

425-010

SHEET

1 of 4

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Type A Opening —

- Riser

CITY OF HOLLYWOOD, FLORIDA BROWARD COUNTY, FLORIDA TASK 4.0 UTILITY RELOCATION -JOHNSON STREET

UTILITY DETAILS

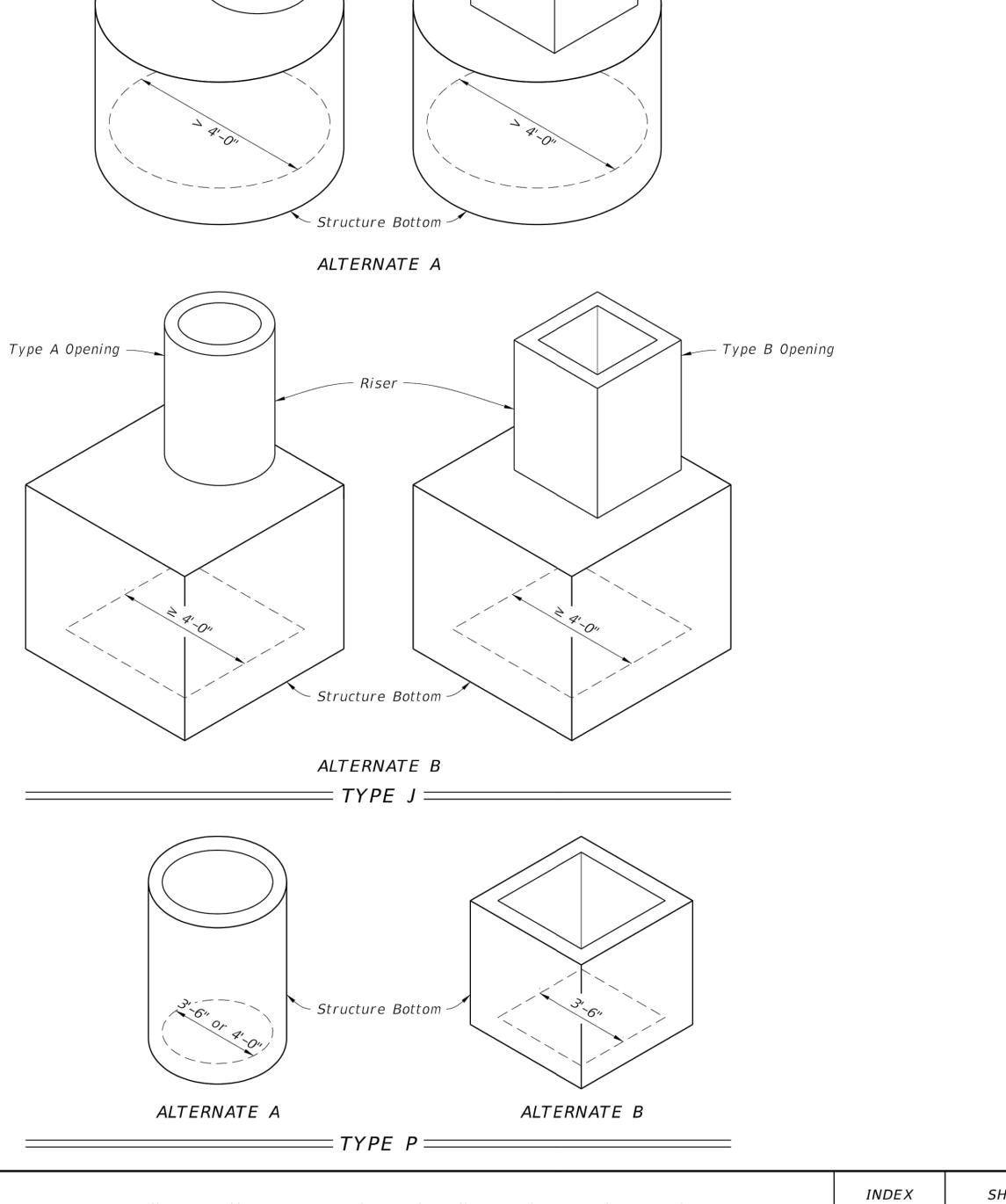
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- Type B Opening

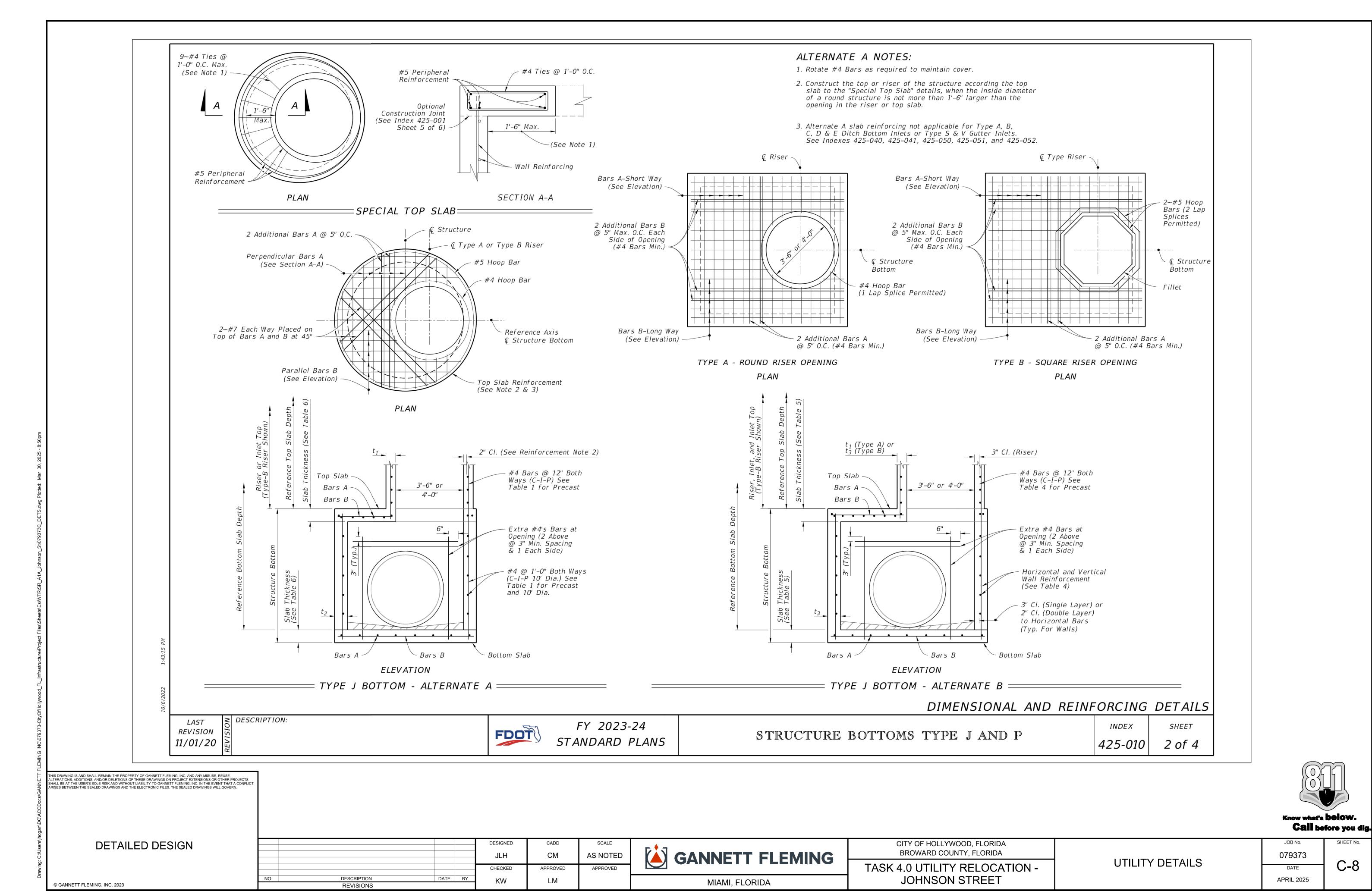


	TABLE 1 - ALTERNATE A - STRUCTURES									
		CAST-IN-PLACE ITEMS			PRECAST ITEMS					
	STRUCTURE/RISER		S II CON	ICRETE	CLAS	S II CON	ICRETE	ASTM	1 C478	
TYPE	DIAMETER (ft)	t ₁	t ₂	A _S	t 1	t ₂	A 5	t ₁ or t ₂	A 2***	
		RISER (in.)	BOTTOM (in.)	(in ² /ft.)	RISER (in.)	BOTTOM (in.)	(in ² /ft.)	(in.)	(in: ² /ft.)	
Р	3'-6"	6	8	0.20	6	8	0.20	4**	0.105	
Р	4'-0"	6	8	0.20	6	8	0.20	5**	0.120	
J	5'-0"	_	8	0.20	_	8	0.20	6**	0.150	
J	6'-0"	_	8	0.20	_	8	0.20	6	0.180	
J	7'-0"	-	8	0.20	_	8	0.20	7	0.210	
J	8'-0"	_	8	0.20		8	0.20	8	0.240	
J	10'-0"	_	10	0.40##	_	10	0.40##	10	0.300	
J	12'-0"	_	10	0.40##	-	12	0.40##	12	0.360	

 t_1 and t_2 – Wall Thickness.

A_S- Vertical and horizontal areas of reinforcement.

##Provide 0.20 eq. in.2/ft. at each face, 12" max. bar spacing.

**Modified minimum wall thickness.

***Min. total circumferential reinforcement for continuous steel hoops:

A2 = 0.40 sq. in. for riser section height equal or less than 2'-0" (2 hoop min.)

 $A_2 = 0.60$ sq. in. for riser section height more than 2'-0" up to 4'-0" (3 hoop min.) Areas of reinforcing for precast items are based on Grade 60 reinforcing.

No reduction in the area of reinforcement is allowed for welded wire fabric in Table 1.

Area of vertical reinforcing may be reduced in accordance with ASTM C478.

SQU	TABLE 2 - ALTERNATE B SQUARE AND RECTANGULAR STRUCTURES												
TYPE	WALL LENGTH	KNESS (t ₃)											
	(FT)	(FT)	C-I-P (in.)	PRECAST (in.)									
Р	≤ 3'-6"	40	6 Riser 8 Bottom	6									
J	4'-0"	40	8	6									
J	5'-0"	22	_	6									
J	6'-0"	15	_	6									
J	5'-0" to 9'-0"	40	8	8									
J	10'-0"	26	8	8									
J	10'-0" to 12'-0"	40	10	9									
J	16'-0"	35	_	9									
J	16'-0"	40	10	10									
J	20'-0"	25	_	9									
J	20'-0"	30	10	10									

See Table 4 for Reinforcing Schedule.

TABLE 3	B - REINF	ORCIN	G SCH	IEDULE
	GRADE 60 WELDE		R 65 KSI & REINFORC	
		MA	XIMUM SP	ACING
SCHEDULE	GRADE 60 AREA	GR 60	WWR EQU	JIV. AREA
	(in? /ft)	BARS (in.)	65 KSI (in.)	70 KSI (in.)
A12	0.20	12	8	8
A6	0.20	6	5	4½
B10	0.24	10	8	7½
B5.5	0.24	5½	5	4
C6.5	0.37	$6\frac{1}{2}$	6	5
C3.5	0.37	$3\frac{1}{2}$	3	2½
D7	0.53	7	6	5
D4.5	0.53	$4\frac{1}{2}$	4	31/2
E5	0.73	5	4	4
E3	0.73	3	3	3
F5	1.06	5	4	4
F3.5	1.06	3½	3	3
G5	1.45	5	4	4
G.3.5	1.45	3½	3	3
Н4	1.75	4	3	3

	TICAL FORCING		ZONTA FORCIN		WALL ICKNESS			TICAL FORCIN	G	l	ZONT A FORCIN		WALL ICKNESS
W ALL DEPT H	SCHEDULE	W ALL DEPT H	SCH	EDULE	WALL THICKNE	WA DEP		SCHI	EDULE	W ALL DEPT H	EDULE	WALL THICKNE	
	SIZE.	3'-6" & RISE	R					Si	ZE: 10'	-0" (Precast	Only)		
≥1.17' - 40'	A12	≥1.17' < 10'	В	310	6"/8"			Inside	Outside		Inside	Outside	
		10' < 18'	В	5.5	6"/8"	26' -	40'	D7	D7	26' - 40'	F5	F5	9"
		18' < 29'	С	6.5	6"/8"			•	SI	ZE: 12'-0"	,	*	
		29' - 40'	С	3.5	6"/8"			Inside	Outside		Inside	Outside	
	9	SIZE: 4'-0"	975			≥1.17′	< 14'			≥1.17' < 10'		C6.5	10"
≥1.17' - 40'	A12	≥1.17′ < 6′	В	310	6"/8"	14' <	25'	C6.5	C6.5	10' < 17'	D7	D7	10"
		6' < 10'	В	5.5	6"/8"	25' -	40'	D7	D7	17' < 24'	E5	E5	10"
		10' < 20'	С	6.5	6"/8"					24' - 40'	F5	F5	10"
		20' < 28'	С	3.5	6"/8"			Si	ZE: 12'	-0" (Precast	Only)		
		28' - 40'	D	4.5	6"/8"			Inside	Outside		Inside	Outside	
	9	SIZE: 5'-0"				≥1.17′	< 12'			≥1.17' < 10'	D7	D7	9"
≥1.17' - 40'	A12	≥1.17′ < 5′	В	5.5	6"/8"	12' <	24'	C6.5	C6.5	10' < 17'	D4.5	D4.5	9"
		5' < 9'	С	6.5	6"/8"	24' -	40'	D7	D7	17' < 23'	E5	E5	9"
		9' < 15'	С	3.5	6"/8"					23' < 32'	F5	F5	9"
		15' < 22'	D	4.5	6"/8"					32' - 40'	G5	G5	9"
		22' - 40'	l I	E <i>3</i>	8"			as .	SI	ZE: 16'-0"			
	9	SIZE: 6'-0"						Inside	Outside		Inside	Outside	
≥1.17′ < 26′	A12	≥1.17' < 9'	С	3.5	6"/8"	≥1.17′	< 11'	C6.5	C6.5	≥1.17' < 13'	D7	D7	10"
		9' < 15'	D	4.5	6"/8"	11' <	20'	D7	D7	13' < 20'	E5	E5	10"
		15' < 26'	1	E <i>3</i>	8"	20' <	28'	E5	E5	20' < 28'	F5	F5	10"
	Inside Outsid	9	Inside	Outside		28' -	40'	F5	F5	28' - 40'	G5	G5	10"
26' - 40'	A12 A12	26' - 40'	D7	D7	8"			Si	ZE: 16'	–0" (Precast	Only)		
		SIZE: 7'-0"						Inside	Outside		Inside	Outside	
	Inside Outsid	9	Inside	Outside		≥1.17′	< 10'	C6.5	C6.5	≥1.17' < 9'	D7	D7	9"
≥1.17′ < 25′	A12 A12	≥1.17' < 7'	B10	B10	8"	10' <	18'	D7	D7	9' < 13'	D4.5	D4.5	9"
26' - 40'	B10 B10	7' < 10'	B5.5	B5.5	8"	18' <		E5	E5	13' < 19'	E5	E5	9"
		10' < 20'	C6.5	C6.5	8"	25' -	35'	F5	F5	19' < 27'	F5	F5	9"
		20' < 30'	D7	D7	8"					27' - 35'	G5	G5	9"
		30' - 40'	E5	E5	8"				SI	ZE: 20'-0"			
	9	SIZE: 8'-0"						Inside	Outside		Inside	Outside	
	Inside Outsid	9	Inside	Outside		≥1.17′	< 10'	C6.5	C6.5	≥1.17' < 8'	D7	D7	10"
≥1.17′ < 20′	A12 A12	≥1.17' < 6'	B5.5	B5.5	8"	10' <		D7	D7	8' < 12'	E5	E5	10"
20' - 40'	C6.5 C6.5	6' < 13'	C6.5	C6.5	8"	17' -	30'	E5	E5	12' < 20'	F5	F5	10"
		13' < 22'	D7	D7	8"					20' - 30'	G5	G5	10"
		22' < 31'	E5	E5	8"			51	ZE: 20'	-0" (Precast	Only)		
		31' - 40'	F5	F5	8"				Outside			Outside	
		SIZE: 9'-0"		T		≥1.17′		C6.5	C6.5	≥1.17' < 8'	D4.5	D4.5	9"
	Inside Outsid			Outside		8' <		D7	D7	8' < 12'	E5	E5	9"
≥1.17' < 12'	A12 A12	≥1.17' < 8'	C6.5	C6.5	8"	13' -	25'	E5	E5	12' < 19'	F5	F5	9"
12' < 28'	C6.5 C6.5	8' < 15'	D7	D7	8"					19' - 25'	G5	G5	9"
28' - 40'	D7 D7	15' < 23'	E5	E5	8"	TARI	F /	I NO	TFS.				
		23' - 40'	F5	F5	8"					I to the top	of the	hottom	slah fo
		IZE: 10'-0"								ntermediate			
	Inside Outside			Outside		2 1/12/	l boio	iht ic +	he dist	ance between	ton of	LOWER	clah to
≥1.17' < 10'	B10 B10	≥1.17' < 10'		D7	8"	of t	upper	slab.	Maximu	m wall heigh	it is 12	?' for wa	all leng
10' < 21'	C6.5 C6.5	10' < 17'	E5	E5	8"	exc	eedin	g 5', or	10' foi	r wall length	s exce	eding 12) ¹ .
21' < 26'	D7 D7	17' < 26'	F5	F5	8"	3. Wal	l lena	iths ex	ceedina	6'-0" require	e two I	ayers of	reinfo
26' - 40'	C6.5 C6.5	26' - 40'	F5	F5	10"	(Se	e Tab	le 4) w	ith 2" o	f cover from	the h		

TABLE 4 - WALL DESIGNS - RECTANGULAR STRUCTURES

he bottom slab for boxes for risers.

op of lower slab to bottom s 12' for wall lengths exceeding 12'.

3. Wall lengths exceeding 6'-0" require two layers of reinforcing (See Table 4) with 2" of cover from the horizontal bars to the inside and outside faces for each layer.

4. Wall lengths exceeding the dimensions or depths shown in Table 4, or 12'-0" diameter require a special design.

5. Wall thickness and reinforcing for rectangular structures is based on the longer wall length.

TABLES 1, 2, 3, AND 4

REVISION 11/01/20

≥ DESCRIPTION:

FDOT

FY 2023-24 STANDARD PLANS

STRUCTURE BOTTOMS TYPE J AND P

INDEX 425-010

SHEET 3 of 4

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DETAILED DESIGN

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CADD DESIGNED CM AS NOTED CHECKED APPROVED DESCRIPTION DATE BY KW REVISIONS



CITY OF HOLLYWOOD, FLORIDA BROWARD COUNTY, FLORIDA TASK 4.0 UTILITY RELOCATION -JOHNSON STREET

UTILITY DETAILS

Call before you dig. 079373

APRIL 2025

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$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$		Γ-WAY	SHORT	G-WAY	LONG	T-WAY	SHOR	G-WAY	LONG	T-WAY	SHORT
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	D.					1 1				1	
	: 8' x	SIZE:			x 6'	SIZE:			x UNLIMITED	SIZE: 3'-6"	
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	≥0	D7	≥0.5′ < 10′	C3.5	20.5' < 10'	C6.5	≥0.5′ < 13′	B10	≥0.5′ < 24′	B10	≥0.5' < 8'
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	9'	E5	10' < 19'	D4.5		D7	13' < 23'	B5.5	24'-40'	B5.5	8' < 13'
SIZE: 4" X UNLIMITED SIZE: 6" X 7" S5.5 S0.5 < 18 010 7 < 19 C6.5 17 < 29 85.5 86.5 < 18 010 7 < 19 C6.5 17 < 29 85.5 86.6 86.6 86.6 86.12 C3.5 86.14 E5 17 < 27 87.5 87.7 87.7 87.5 87.7 87.	13	F5	19'-30'			E5	23'-40'				
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	18									D7	31'-40'
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$				13	33 -40					SIZF: 4' x	
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$: 8' x	SIZE:			x 7'	SIZE:		B10			≥0.5' < 7'
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	≥0	D7	≥0.5′ < 8′	C6.5	≥0.5′ < 8′	C6.5	≥0.5′ < 8′		15' < 29'	C6.5	
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	7	E5	8' < 14'	C3.5	8' < 12'	D7	8' < 16'	C6.5	29'-40'	D7	19' < 31'
SIZE: 5' x 5' SiZE: 6' x 8' SiZE: 6' x 8' SiZE: 9' x 8' x 8' x 8' SiZE: 9' x 8' x 8' SiZE: 9' x 8' x 8' x 8' SiZE: 9' x 8' x 8' x 8' SiZE: 9' x 8' x	9'					 				E5	31'-40'
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	15	G3.5	23'-31'			F 5	28'-40'			6175	
Size	20							66.5			O.El . 31
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$		SIZE:		, ,		. SIZE:					
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	≥0	**************************************	≥0.5' < 8'	B5.5		324400 (A-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1	≥05′ < 6′			 	
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	7'					 				 	
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	10	F5		C3.5	11' < 17'	E5		E5	29'-40'	E5	29'-40'
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	17								5' x 6'	SIZE:	
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	SLAE	ZE: 9'x9'x10"	SIZ			G5	35'-40'	C6.5	≥0.5′ < 3′	C6.5	≥0.5′ < 12′
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	22			<u>E3</u>		CIZE					
	3			D.F. F.			> 0 El - 1 Ol			E5	26'-40'
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	" SLA	E: 10'x10'x10"	SIZ								
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	0.					 		LS	·	SIZE:	
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	6					†		B5 5			0.5' < 10'
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	9' 15			E5	25'-34'						
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	2							D4.5	31'-40'	E5	20' < 34'
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$					NLIMITED	SIZE: 6' x				F5	34'-40'
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	≥0	D7	≥0.5′ < 10′								
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	8'	E5	10' < 16'								
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	14	_				1				 	
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	22	G5	25'-35'								
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$] 3										
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$					x 7'	SIZE:					
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$									5' x 9'	SIZE:	
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$						+ +	<u> </u>	B10	≥0.5′ < 14′	C6.5	≥0.5' < 8'
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$						1			;	 	
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	D W	SLAB AND	5			F 5	20 -40			 	
SIZE: 5' × UNLIMITED ≥0.5' < 8'								(3.3	54 -40	<i>F3</i>	25°-40°
$\geq 0.5' < 8'$ $C6.5$ $\geq 0.5' < 14'$ $B10$ $8' < 14'$ $D7$ $14' < 24'$ $B5.5$ $14' < 25'$ $E5$ $24' < 34'$ $C6.5$ $25' < 40'$ $E5$. 111310	, 5120 13 UIC	1			SIZE:			UNLIMITED	SIZE: 5' ×	
8' < 14' D7 $14' < 24'$ B5.5 14' < 25' E5 $24' < 34'$ C6.5 25' - 40' F5 $34' - 40'$ C3.5 30' - 40' G5 $22' < 30'$ F3.5 30' - 40' G3.5 5' < 11' D7 $5' < 8'$ C3.5 11' < 19' E5 $8' < 13'$ D4.5 19' < 30' F5 $13' < 22'$ E3 structures at 1 30' - 40' G5 $22' < 30'$ F3.5 5' < 11' D7 $5' < 8'$ C3.5 19' < 30' F5 $13' < 22'$ E3 structures at 1 30' - 40' G3.5 5' < 11' D7 $5' < 8'$ C3.5 19' < 30' F5 $13' < 22'$ E3 structures at 1			2	C6.5	≥0.5′ < 5′	C6.5	≥0.5′ < 5′	B10			≥0.5' < 8'
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	ιe, an	intermediat									
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	bs fo	. Bottom Slak	3			1					
30'-40' G3.5 SIZE: 7' x 9' top of slab.						i i		C3.5	34'-40'	F5	25'-40'
SIZE: 7' x 9' top of slab.	is m	. Slah denth	Δ			65	30'-40'				
- 0 FL + 0L D7 - 0 FL + 7L CC F			7	05.5							
5. Reinforcing sch		Delete 1	_	C6.5			>0.5' < 0'				
9' < 15' E5 $7' < 10'$ C3.5 may be substituted	-		5								
15' < 25' F5 10' < 14' D4.5 or wire spacing		,				 					
25' - 34' $G5$ $14' < 21'$ $E5$ be substituted	ıted f	be substitu									
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$											

	D STRUCT	
SLAB DEPTH	SLAB THICKNESS	REINF. (2-WAY) SCHEDULE
SIZI	E: 3'-6" DIAMET	TER
2'-15'	6" Precast	C6.5
0.5' < 30'	8"	A6
30'-40'	8"	B5.5
SIZI	E: 4'-0" DIAMET	TER
≥0.5′ < 19′	8"	A6
19' < 30'	8"	B5.5
30'-40'	8"	C6.5
SIZI	E: 5'-0" DIAMET	
≥0.5′ < 15′	8"	B5.5
15' < 26'	8"	C6.5
26' < 35'	8"	D7
35'-40'	8"	D4.5
2.00 CANACA TOPICS	E: 6'-0" DIAMET	200 - CM -
≥0.5′ < 9′	8"	B5.5
9' < 15'	8"	C6.5
15' < 22'	8"	C3.5
22' < 30'	8" 8"	D4.5 E5
30'-40'	 E: 7'-0" DIAME7	
≥0.5' < 8'	8"	C3.5
8' < 16'	8"	D4.5
16' < 23'	8"	E5
23' < 27'	8"	E3
27'-40'	8"	F3.5
SIZI	E: 8'-0" DIAMET	
≥0.5′ < 10′	8"	D4.5
10' < 16'	8"	E5
16' < 19'	8"	E3
19' < 29'	8"	F3.5
29'-40'	10"	F5
	E: 10'-0" DIAME	
≥0.5′ < 12′	10"	D4.5
12' < 20'	10"	E5
20' < 28'	10"	F5
28'-40'	10"	G3.5
	: 12'-0" DIAME	
≥0.5' < 8'	10"	D4.5
8' < 13'	10" 10"	E5
13' < 18' 18' < 26'	10"	F5 G3.5
26'-40'	12"	G3.5
	1 4	0,0

TABLE 6 - SLAB DESIGNS

SLAB AND WALL DESIGN TABLE NOTES

LONG-WAY

SCHEDULE

(Bars B)

D4.5

E5

F5 F3.5

G3.5

D7

D4.5

E3

F5

F3.5

G3.5

D4

E5

F3.5 G3.5

F3.5

G3.5

C6.5

D4.5

E5

F5

G3.5

D7

F5 G5

H4

DEPTH

≥0.5′ < 9′

9' < 13'

13' < 18'

18' < 23'

23'-30'

≥0.5′ < 7′

7' < 9'

9' < 15'

15' < 20'

20' < 23'

23'-31'

≥0.5′ < 7′

7' < 10'

10' < 17'

17' < 22'

22' < 31'

31'-40'

0.5' < 6'

6' < 9'

9' < 15'

15' < 22'

22'-32'

≥0.5′ < 8′

8' < 14'

14' < 22'

22' < 30'

30'-35'

SIZE: 9'x9'x10" SLAB THICKNESS

SIZE: 10'x10'x10" SLAB THICKNESS

SIZE: 12'x12'x12" SLAB THICKNESS

- 1. Size is the inside dimension(s) of a structure.
- 2. Slab reinforcement is appropriate for top, intermediate, and bottom slabs.
- 3. Bottom Slabs for precast 3'-6" x 3'-6" rectangular structures at 15' depth or less, may be 6" thick.
- 4. Slab depth is measured from finished grade to top of slab.
- 5. Reinforcing schedules with larger areas of steel may be substituted for schedules with smaller bar or wire spacing, except that Schedule B10 may not be substituted for Schedule A6. See Index 425-001 for allowable bar spacing adjustments when larger areas of reinforcing are substituted.

|--|

REVISION 11/01/20

≥ DESCRIPTION:

FDOT

FY 2023-24 STANDARD PLANS

STRUCTURE BOTTOMS TYPE J AND P

INDEX 425-010

SHEET 4 of 4

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DETAILED DESIGN

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				DESIGNED	CADD	SCALE
				JLH	СМ	AS NOTED
				_		
				CHECKED	APPROVED	APPROVED
NO.	DESCRIPTION	DATE	BY	1014	1.54	
110.	REVISIONS	DATE	ום	KW	LM	



CITY OF HOLLYWOOD, FLORIDA BROWARD COUNTY, FLORIDA TASK 4.0 UTILITY RELOCATION -JOHNSON STREET

UTILITY DETAILS

Know what's **below.** Call before you dig. 079373

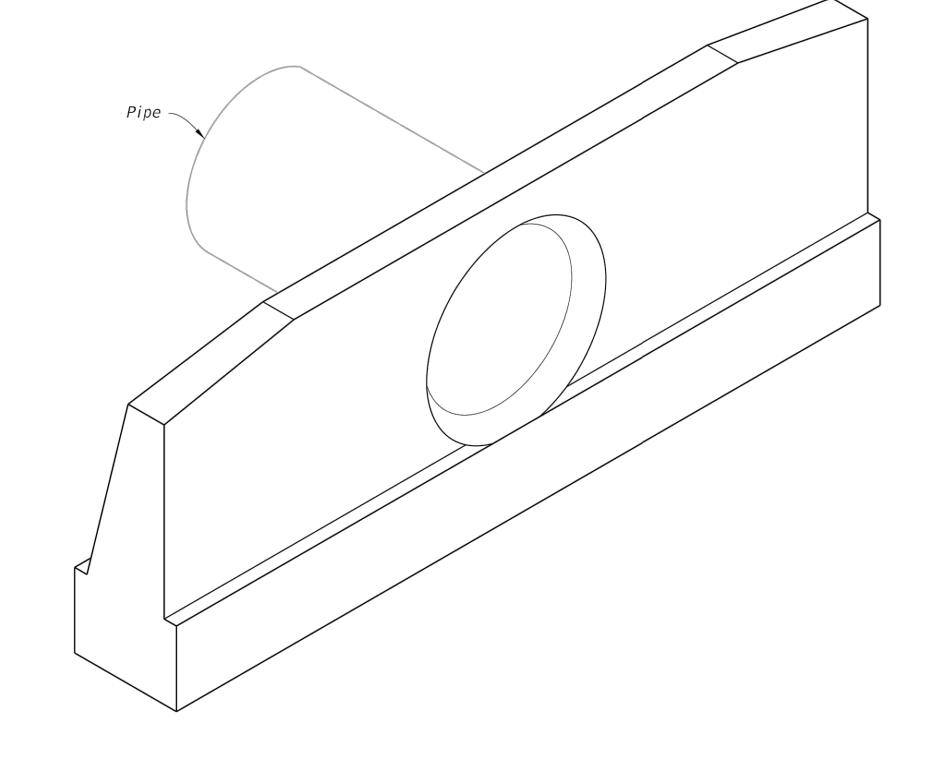
C-10 APRIL 2025

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GENERAL NOTES: 1. Use Class II concrete.

- 2. Reinforcing steel is either Grade 40 or 60.
- Endwalls may be cast in place or precast concrete. (Additional reinforcement necessary for handling precast units will be determined by the Contractor or the supplier).
- 4. Chamfer all exposed edges and corners to $\frac{3}{4}$ ".
- 5. Endwall dimensions, locations and positions are for round and elliptical concrete pipe and for round and pipe-arch corrugated metal pipe. Round concrete pipe shown.
- 6. On outfall ditches with side slopes flatter than 1:1.5 provide 20' transitions from the endwall to the flatter side slopes, right of way permitting.
- 7. Construct front slope and ditch transitions in accordance with Index 430-001.
- 8. Quantities shown are for estimating purposes only.

	TABLE OF CONTENTS:
Sheet	Description
1	General Notes and Contents
2	Concrete Endwall Details
3	Concrete and Metal Pipe Tables
4	Spacing For Multiple Pipes



STRAIGHT CONCRETE ENDWALL

3 11:5

LAST REVISION 11/01/21

≥ DESCRIPTION:

FDOT

FY 2024-25 STANDARD PLANS

STRAIGHT CONCRETE ENDWALLS SINGLE AND MULTIPLE PIPE

INDEX

SHEET

430-030 1 of 4

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			DESIGNED	CADD	SCALE
			JLH	CM	AS NOTED
			-		
			CHECKED	APPROVED	APPROVED
NO.	DESCRIPTION DATE	BY	KW	LM	
	REVISIONS		17.4.4	LIVI	



CITY OF HOLLYWOOD, FLORIDA BROWARD COUNTY, FLORIDA

TASK 4.0 UTILITY RELOCATION JOHNSON STREET

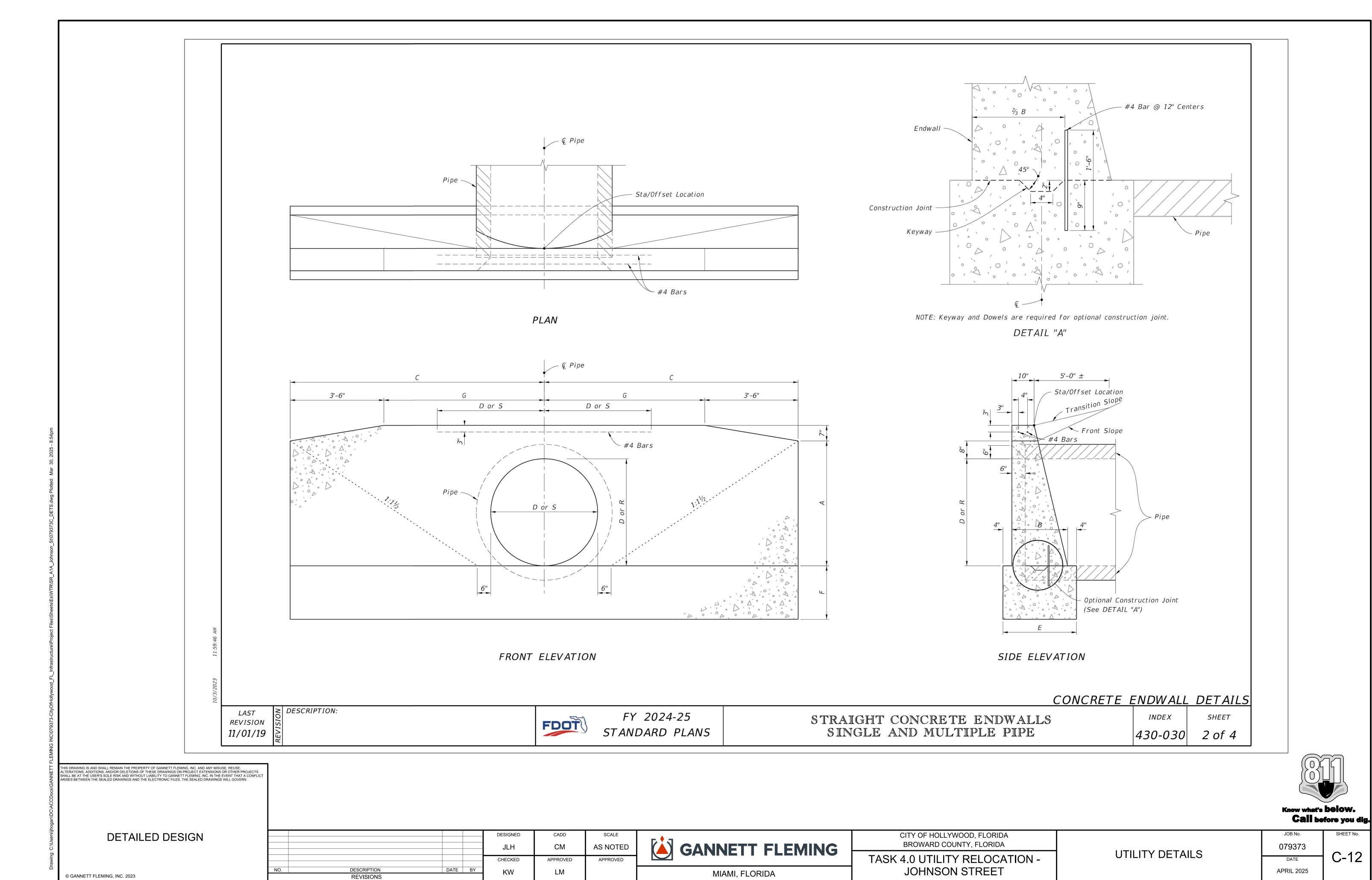
UTILITY DETAILS

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JOB No. SHEET No.

079373

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	g Area (SF) er Of Pipes 3		T							ELLIPTICAL CONCRETE AND CORRUGATED METAL PIPE ARCH														1					
1 2 1.3 2.6	er Of Pipes				© Rise Span Opening Area (SF) Dimensions									Class II Concrete (CY) Number Of Pipe And Skew Angle Of Pipe (α)								Rise	Span	Approx.					
1 2 1.3 2.6	3	- 1								1		./		Cinala		Davi		ier Oi P	rpe And			i Pipe (α)	Ound	mumla		N/SE	Span	Equiv.
	3		Α	В	С	E	F	G	Y	00	150	2.00	450	Single 0°	00	Dou		450	00	Trij		450	00	Quadi		450	"	5	Round
	3.0	4	1/ 0//	11 211	21 011	11 1 011	11 211	01 211	2/ 10//	21 1 011	15°	30°	45°	U	0°	15°	30°	45°	1.00	15°	30°	45°	2.16	15°	30°	45°	1 2//	10"	1.51
18 36		5.2	1'-8"	1'-2"	3'-9"	1'-10"	1'-2"	0'-3"	2'-10"	2'-10"	2'-11"	3'-3"	4'-0"	1.09	1.45	1.46	1.51	1.60	1.80	1.82	1.91	2.09	2.16	2.20	2.33	2.60	12"	18"	15"
		7.2	1'-10"	1'-3"	4'-21/2"	1'-11"	1'-3"	81/2"	3'-5"	3'-5"	3'-6"	3'-11"	4'-10"	1.36	1.82	1.84	1.89	2.01	2.29	2.32	2.43	2.68	2.75	2.80	2.97	3.33	14"	23"	18"
3.3 6.6		13.2	2'-3"	1'-4"	5'-11/2"	2'-0"	1'-4"	1'-71/2"	4'-2"	4'-2"	4'-4"	4'-10"	5'-11"	1.89	2.55	2.57	2.65	2.82	3.22	3.27	3.43	3.77	3.88	3.95	4.19	4.70	19"	30"	24"
5.1 10.2		20.4	2'-8"	1'-5"	6'-3"	2'-1"	1'-5"	2'-9"	<i>5'-2"</i>	5'-2"	5'-4"	6'-0"	7'-4"	2.64	3.55	3.58	3.69	3.93	4.48	4.54	4.77	5.24	5.39	5.49	5.82	6.53	24"	38"	30"
7.4 14.8		29.6	3'-1"	1'-6"	7'-0"	2'-2"	1'-6"	3'-6"	6'-0"	6'-0"	6'-3"	6'-11"	8'-6"	<i>3.32</i>	4.48	4.52	4.66	4.96	5.64	5.72	6.00	6.60	6.80	6.92	7.34	8.24	29"	45"	36"
10.2 20.4	4 30.6	40.8	3'-6"	1'-7"	7'-111/2"		1'-7"	4'-51/2"	7'-1"	7'-1"	7'-4"	8'-2"	10'-0"	4.24	5.76	5.81	6.00	6.39	7.29	7.40	7.76	8.55	8.81	8.97	9.52	10.70	34"	53"	42"
12.9 25.8	3 38.7	51.6	3'-10"	1'-8"	8'-9"	2'-4"	1'-8"	<i>5'-3"</i>	7'-11"	7'-11"	8'-2"	9'-2"	11'-2"	5.22	7.16	7.23	7.46	7.96	9.10	9.24	9.70	10.71	11.05	11.25	11.95	13.46	38"	60"	48"
16.6 33.2	2 49.8	66.4	4'-3"	1'-10"	9'-81/2"	2'-6"	1'-10"	6'-21/2"	8'-10"	8'-10"	9'-2"	10'-2"	12'-6"	6.63	9.01	9.09	9.38	10.00	11.39	11.56	12.13	13.36	13.77	14.02	14.88	16.73	43"	68"	<i>54</i> "
20.5 41.0	0 61.5	82.0	4'-8"	2'-1"	10'-8"	2'-9"	2'-0"	7'-2"	9'-9"	9'-9"	10'-1"	11'-3"	13'-9"	8.66	11.74	11.85	12.22	13.02	14.82	15.04	15.77	17.37	17.91	18.23	19.34	21.74	48"	76"	60"
24.8 49.6	5 74.4	99.2	5'-1"	2'-6"	11'-7"	3'-2"	2'-6"	8'-1"	10'-7"	10'-7"	10'-11"	12'-3"	15'-0"	12.50	16.98	16.98	17.67	18.83	21.47	21.78	22.86	25.18	25.97	26.44	28.06	31.55	53"	83"	66"
29.5 59.0	88.5	118.0	5'-6"	2'-10"	12'-61/2"	3'-6"	2'-10"	9'-01/2"	11'-4"	11'-4"	11'-9"	13'-1"	16'-0"	16.46	22.26	22.46	23.16	24.66	28.05	28.46	29.85	32.85	33.85	34.46	36.55	41.05	58"	91"	72"
1.1 2.2	3.3	4.4	1'-9"	1'-2"	3'-10"	1'-10"	1'-2"	0'-4"	2'-6"	2'-6"	2'-7"	2'-11"	3'-6"	1.16	1.47	1.48	1.52	1.60	1.78	1.80	1.88	2.04	2.09	2.12	2.23	2.48	13"	17"	15"
1.6 3.2	4.8	6.4	1'-11"	1'-2"	4'-3"	1'-10"	1'-2"	0'-9"	2'-10"	2'-10"	2'-11"	3'-3"	4'-0"	1.33	1.69	1.70	1.75	1.84	2.04	2.06	2.15	2.33	2.40	2.44	2.57	2.84	15"	21"	18"
2.8 5.6		11.2	2'-4"	1'-3"	5'-2"	1'-11"	1'-3"	1'-8"	3'-5"	3'-5"	3'-6"	3'-11"	4'-10"	1.78	2.31	2.33	2.39	2.53	2.83	2.87	2.99	3.26	3.36	3.42	3.60	4.01	20"	28"	24"
		17.2	2'-8"	1'-4"	5'-111/2"	2'-0"		2'-51/2"			4'-2"	4'-7"																	30"
			3'-1"		$6'-10^{1/2}$ "							5'-6"																	36"
			3'-5"																										42"
																													48"
					- 2					7'-1"			10'-0"										11 15				 		54"
10.6 21.2 13.2 26.4										7/ 10//			111 111									1 4 42	11.15			17.77			60"
4.3 8.6 5.9 11.8 8.4 16.8	3 3 2	12.9 17.7 25.2 31.8 39.6	12.9 17.2 17.7 23.6 25.2 33.6 31.8 42.4 39.6 52.8	12.9 17.2 2'-8" 17.7 23.6 3'-1" 25.2 33.6 3'-5" 31.8 42.4 3'-10" 39.6 52.8 4'-3"	12.9 17.2 2'-8" 1'-4" 17.7 23.6 3'-1" 1'-5" 25.2 33.6 3'-5" 1'-6" 31.8 42.4 3'-10" 1'-7" 39.6 52.8 4'-3" 1'-8"	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$								

NOTES:

1. Dimension X is calculated as: $X = Y*SEC \alpha$.

2. Select tabular quantities using skew values as follows:

End Skew to Pipe Use Tabulated Value

0° to 5° 0°
6° to 15° 15°

6° to 15° 15° 16° to 30° 30° 31° or 0ver 45°

CONCRETE AND METAL PIPE TABLES

LAST REVISION 11/01/21

FDOT

FY 2024-25 STANDARD PLANS

STRAIGHT CONCRETE ENDWALLS SINGLE AND MULTIPLE PIPE

430-030

30 3 of 4

SHEET

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CITY OF HOLLYWOOD, FLORIDA
BROWARD COUNTY, FLORIDA

TASK 4.0 UTILITY RELOCATION JOHNSON STREET

UTILITY DETAILS

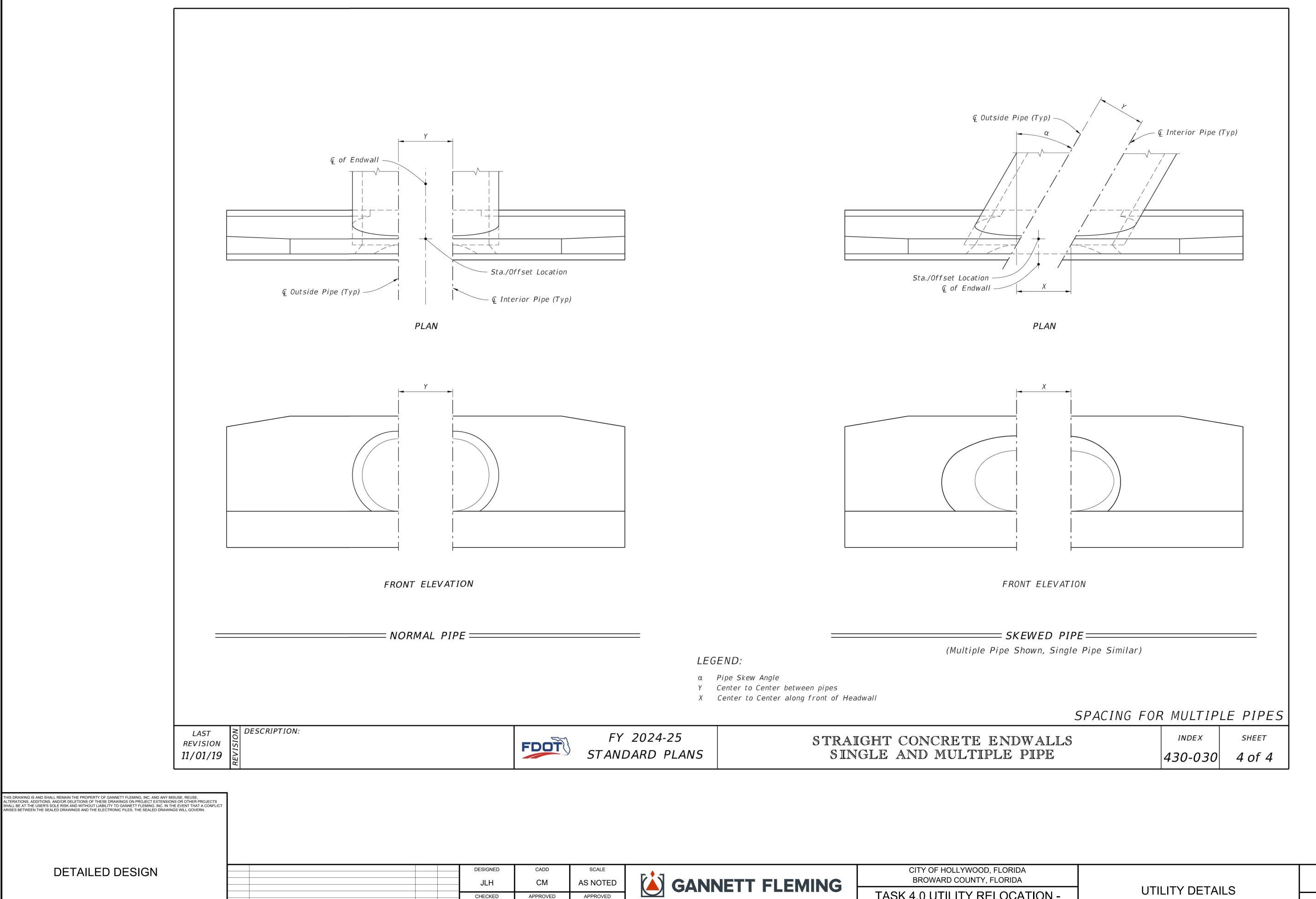
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 SHEET No.

 079373
 C-13

DATE **C-13**APRIL 2025

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BROWARD COUNTY, FLORIDA TASK 4.0 UTILITY RELOCATION -JOHNSON STREET

UTILITY DETAILS

079373 APRIL 2025

C-14

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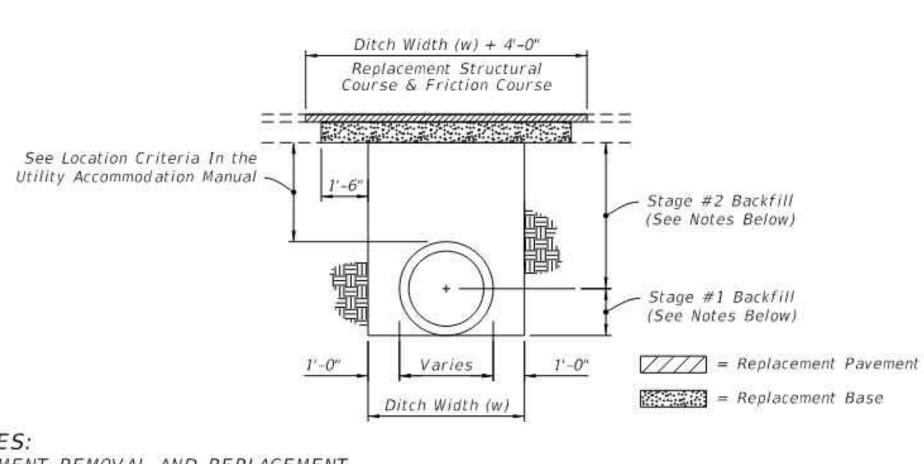
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NOTES: PAVEMENT REMOVAL AND REPLACEMENT

- 1. Pavement shall be mechanically sawed.
- 2. The replacement asphalt shall match the existing structural and friction courses for type and thickness in accordance with current FDOT asphalt mix specifications.
- 3. The new base materials shall be either of the same type and composition as the materials removed or of equal or greater structural adequacy.

BACKFILL OPTION

- 1. COMPACTED AND STABILIZED FILL
- A. Place backfill material in accordance with Specification 125.
- B. In Stage #1, construct compacted fill beneath the haunches of the pipe, using mechanical tamps suitable for this purpose. This compaction applies to the material placed beneath the haunches of the pipe and above any bedding.
- C. In Stage #2, construct compacted fill along the sides of the pipe and up to the bottom of the base, with the upper 12" receiving Type B Stabilization. In lieu of Type B Stabilization, the Contractor may construct using Optional Base Group 3.
- 2. FLOWABLE FILL
- A. If compaction can not be achieved through normal mechanical methods then flowable fill may be used.
- B. Flowable fill is to be placed in accordance with Specification 121, as approved by the Engineer.
- C. Do not allow the utility being installed to float. If a method is provided to prevent flotation from occurring, Stages #1 and #2 can be combined, if approved by the Engineer.
- D. In Stage #1, place flowable fill midway up on both sides of the utility. Allow to harden before placing Stage #2.
- E. In Stage #2, place flowable fill to the bottom of the existing base course.

=FLEXIBLE PAVEMENT CUT

GENERAL NOTES

- 1. The details provided in this Index apply to cases in which jack and bore or directional boring methods are not required by the Engineer.
- Flowable fill shall not be placed directly over loose, or high plastic, or muck material (see Index 120-001) which will cause settlement due to fill weight. Where highly compressible material exists, the amount, shape and depth of flowable fill must be engineered to prevent pavement settlement.
- 3. These details do not apply to utility cuts longitudinal to the centerline of the roadway which may require the additional use of geotextiles, special bedding and backfill, or other special requirements,
- Method of construction must be approved by the Engineer.

∠ DESCRIPTION:

5. Some pipe may require special granular backfill up to 6" above top of pipe. Geotextiles may be required to encapsulate the special granular material.

Match The Existing Pavement Thickness (Not Less Than 8" Thickness) 10'-0" (Min.) Monolithic Slab 10'-0" (Min.) 10'-0" (Min.) Refer To Index 350-001 For Butt Construction Joint ~ Nearest Joint In Pavement Nearest Joint In Pavement -#9 Stone Or Equivalent When Flowable Fill Option Is Used 1'-0" See Location Criteria In the Stage #2 Backfill (See Notes Below) Utility Accommodation Manual Stage #1 Backfill (See Notes Below) //// = Replacement Pavement

NOTES:

PAVEMENT REMOVAL AND REPLACEMENT

- 1. High early strength cement concrete (3000 psi) meeting the requirements of Specification 346 shall be used for rigid pavement replacement.
- Pavement shall be mechanically sawed and restored to conform with existing pavement joints within 12 hours. (See Index 350-001)

BACKFILL OPTION

1. GRANULAR BACKFILL

- A. Any edgedrain system that is removed shall be replaced with the same type materials. Any edgedrain system that is damaged shall be repaired with methods approved by the Engineer.
- B. Fill material shall be placed in accordance with the Standard Specifications. Fill material shall be special select soil in accordance with Index 350-001.
- C. In Stage #1, construct compacted fill beneath the haunches of the pipe, using mechanical tamps suitable for this purpose. This compaction applies to the material placed beneath the haunches of the pipe and above
- D. In Stage #2, construct fill along the sides of the pipe and up to the bottom of replacement pavement.

2. FLOWABLE FILL

- A. If mechanical compaction can not be achieved through normal mechanical methods then flowable fill may be used.
- B. Flowable fill is to be placed in accordance with Specification 121, as approved by the Engineer.
- C. Do not allow the utility being installed to float. If a method is provided to prevent flotation from occurring, Stages #1 and #2 can be combined, if approved by the Engineer.
- D. In Stage #1, place flowable fill midway up on both sides of the utility. Allow to harden before placing Stage #2.
- E. In Stage #2, place flowable fill to the bottom of the stone layer.

=RIGID PAVEMENT CUT============

- 6. Where asphalt concrete overlays exist over full slab concrete pavement, the replacement pavement shall have an overlay constructed over the replacement slab. The overlay shall match the existing asphalt pavement thickness. The replacement friction course shall match the existing friction course, except structural course may be used in lieu of dense graded friction course.
- 7. All shoulder pavement, curb, curb and gutter, and their substructure disturbed by utility trench cut construction shall be restored in kind.
- 8. The use of flowable fill to reduce the time traffic is taken off a facility is acceptable but must have prior approval by the Engineer. Flowable fill use is allowed only when properly engineered for pavement crossings, whether straight or diagonal, and shall not be installed for significant depths or lengths. The maximum length shall be fifty (50) feet and a maximum depth of six (6) feet unless supported by an engineering document prepared by a registered professional engineer that specializes in soils engineering. The engineering document shall address the evaluation of local groundwater flow interruption and settlement potential.
- Excavatable flowable fill is to be used when the flowable fill option is selected.

TRENCH CUTS AND RESTORATIONS ACROSS ROADWAYS

LAST REVISION 11/01/17

FDOT

FY 2023-24 STANDARD PLANS

UTILITY ADJUSTMENTS THRU EXISTING PAVEMENT

125-001

SHEET 1 of 2

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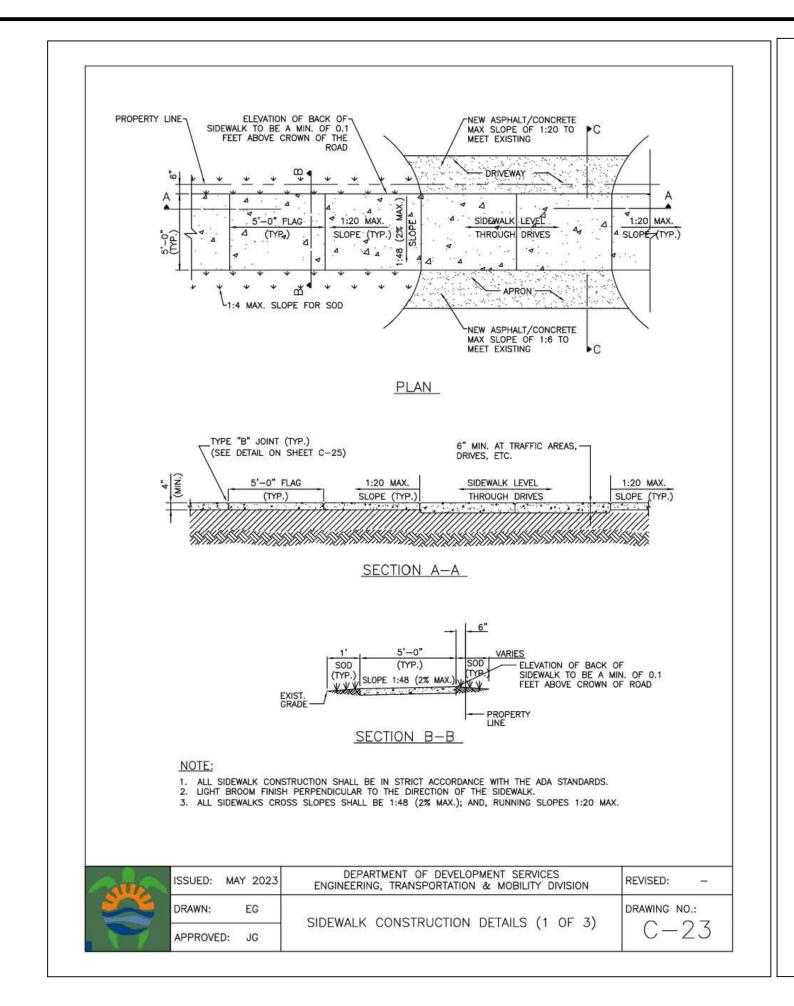
CITY OF HOLLYWOOD, FLORIDA BROWARD COUNTY, FLORIDA TASK 4.0 UTILITY RELOCATION -JOHNSON STREET

UTILITY DETAILS

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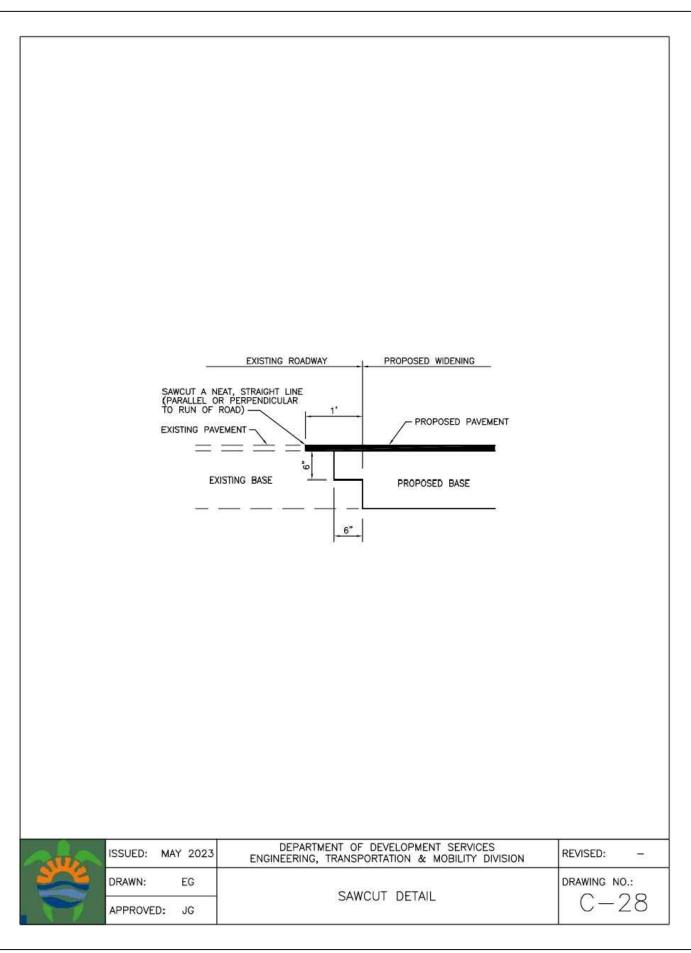
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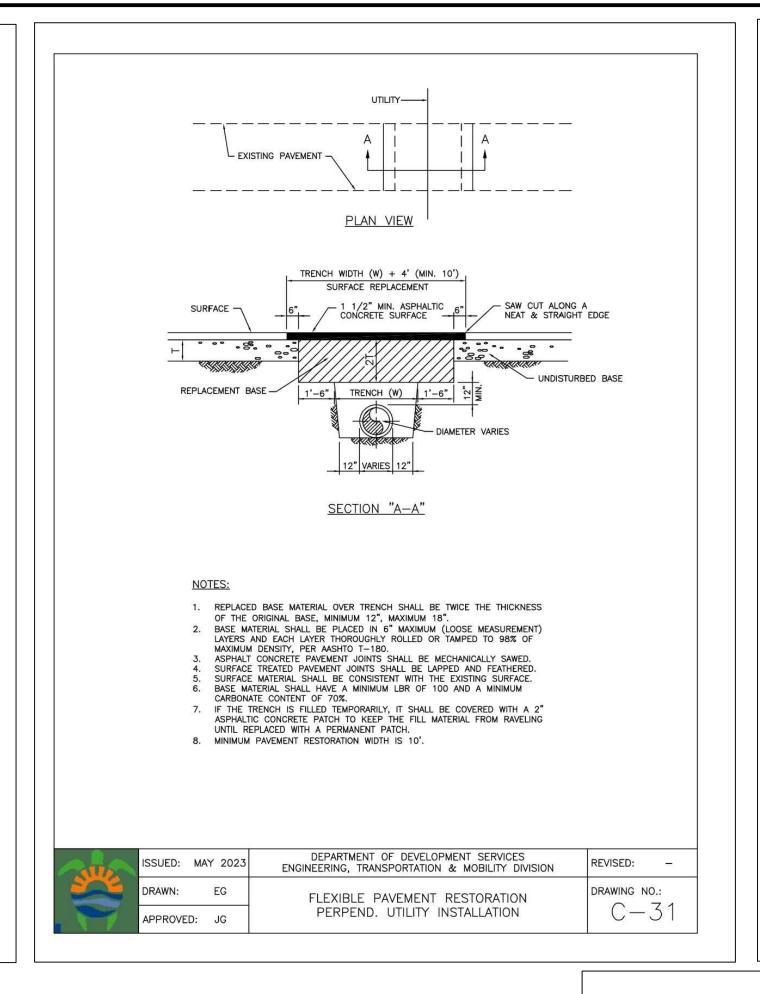
Page 30 of 36

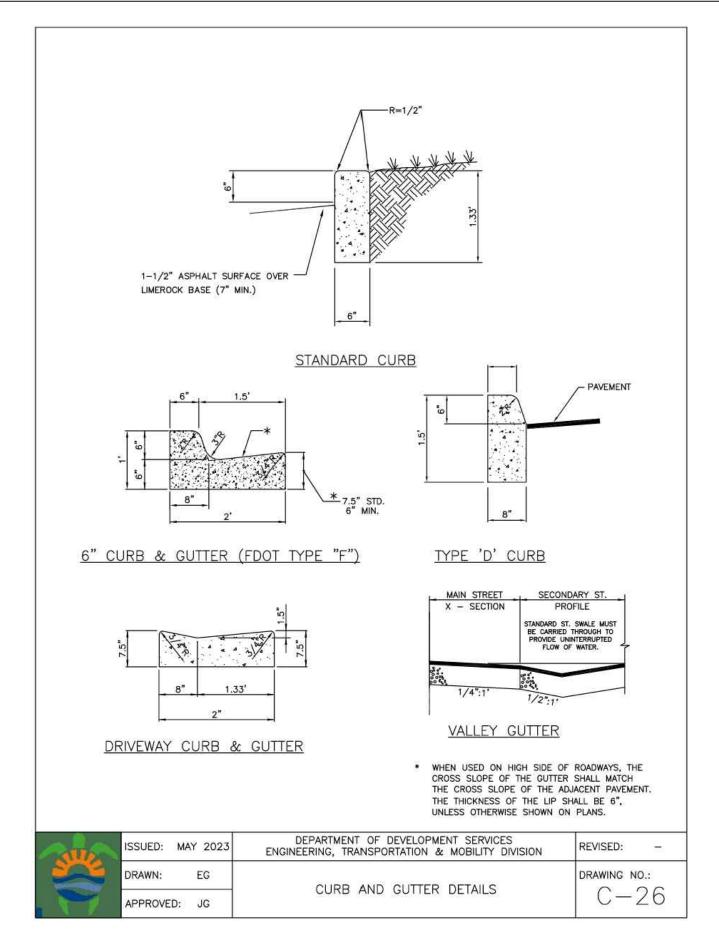


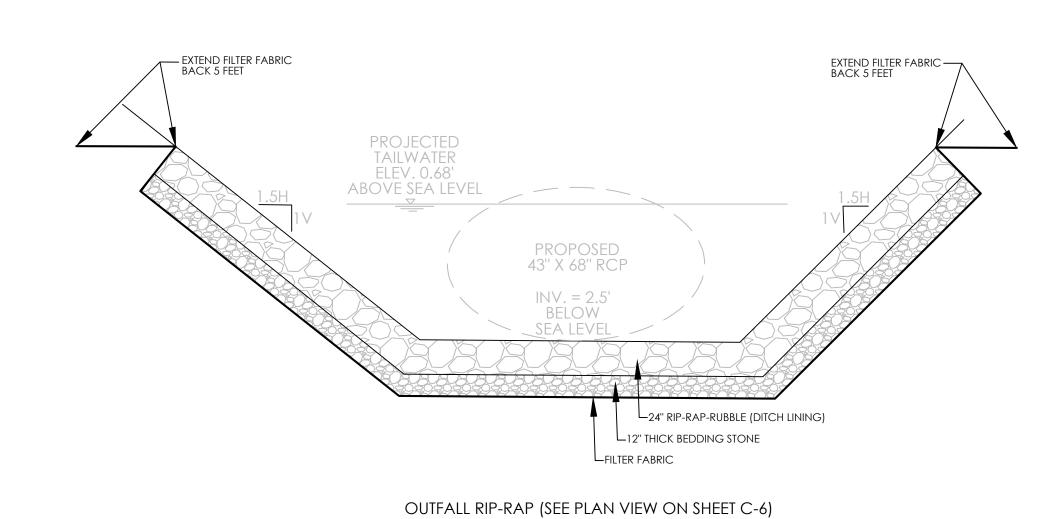
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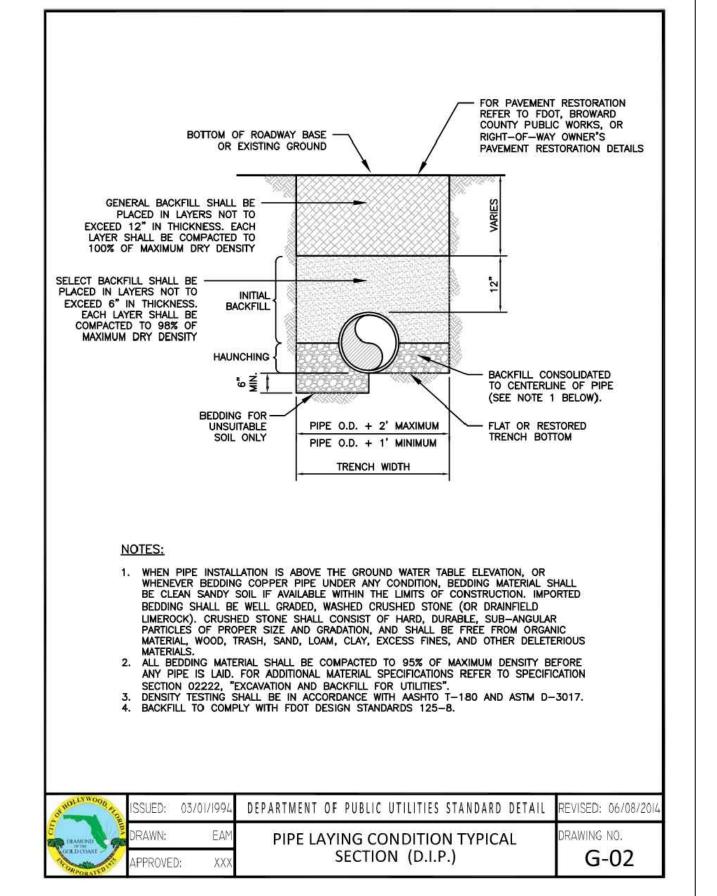
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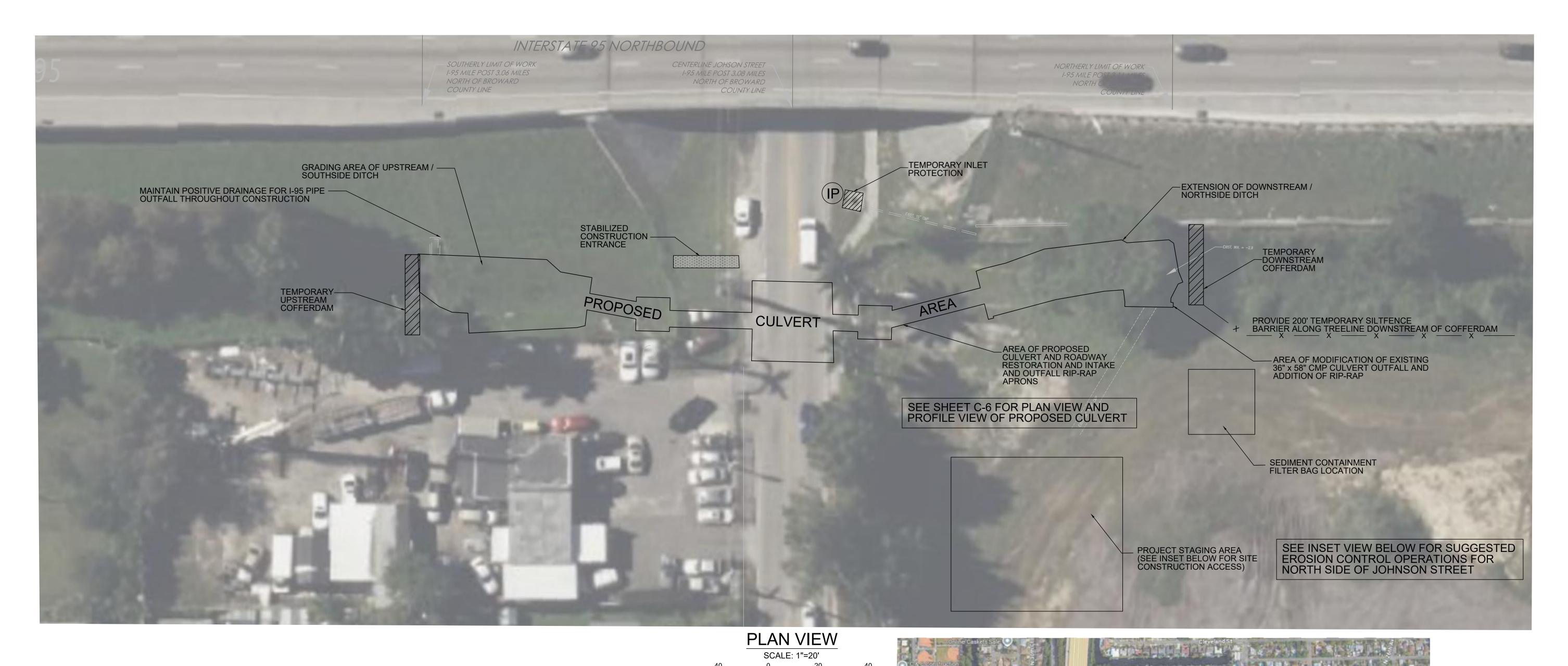
BROWARD COUNTY, FLORIDA TASK 4.0 UTILITY RELOCATION -JOHNSON STREET

CITY OF HOLLYWOOD, FLORIDA

UTILITY DETAILS

JOB No. 079373 C-16 APRIL 2025





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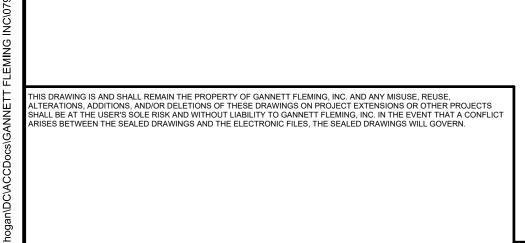
TEMPORARY TOPSOIL-STOCKPILE

PROVIDE SILT FENCE BARRIER INSTALLATION ALONG TREE LINE AND – AROUND TOPSOIL STOCKPILE AREA

TEMPORARY PROJECT-STAGING AREA

GENERAL NOTES:

- 1. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING WATER USE PERMITS FROM THE SOUTH FLORIDA WATER MANAGEMENT DISTRICT.
- 2. SEE SHEET C-18 FOR ALL EROSION AND SEDIMENT CONTROL DETAILS.
- 3. SEE SHEET C-2 FOR A SUGGESTED SEQUENCE OF CONSTRUCTION.



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CITY OF HOLLYWOOD, FLORIDA BROWARD COUNTY, FLORIDA TASK 4.0 UTILITY RELOCATION -

JOHNSON STREET

EROSION & SEDIMENT CONTROL PLAN

INSET SCALE: 1" = 400'

> JOB No. 079373 APRIL 2025

PROVIDE SILT FENCE BARRIER
INSTALLATION ALONG TREE LINE AND
AROUND TOPSOIL STOCKPILE AREA

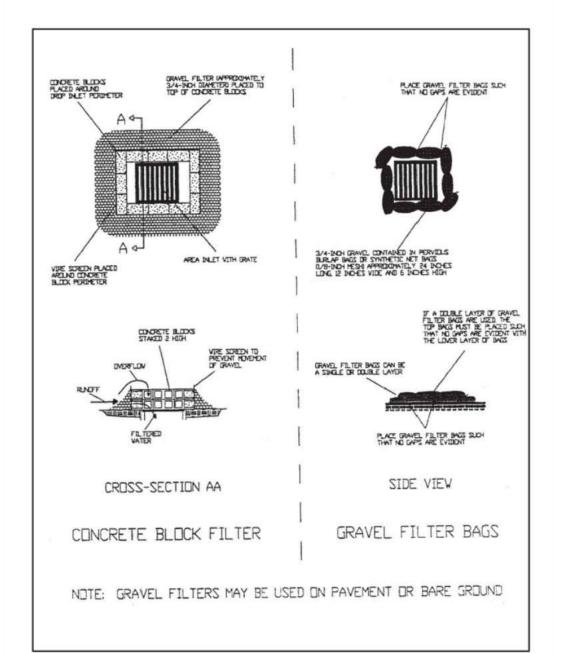
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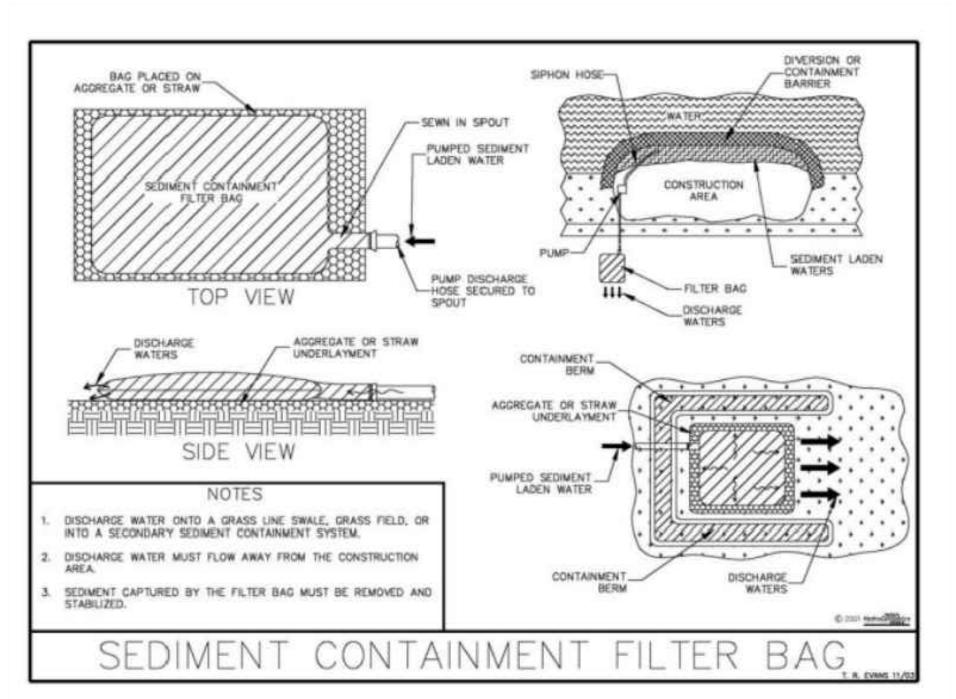
CONSTRUCTION
ACCESS FOR NORTH
SIDE OF JOHNSON
STREET AT SOUTH
EAST CORNER OF
SITE

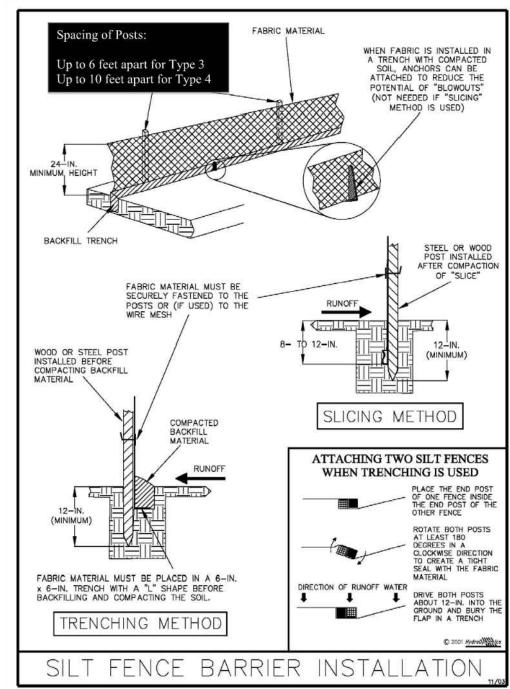
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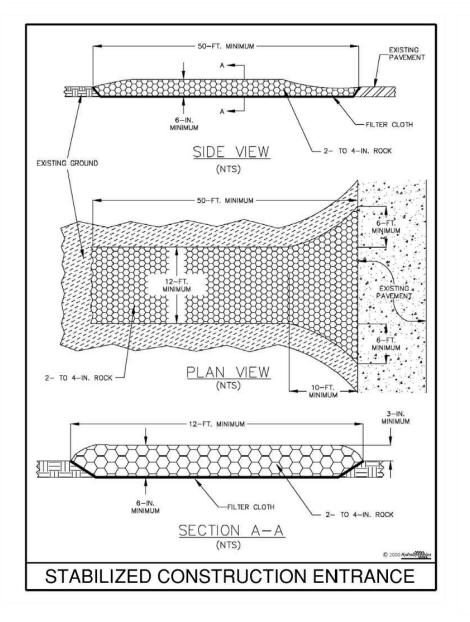
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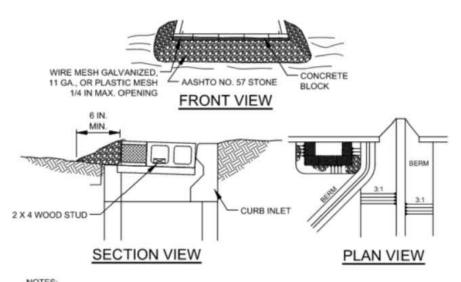
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MAXIMUM DRAINAGE AREA = 1 ACRE.

INLET PROTECTION SHALL NOT BE REQUIRED FOR INLET TRIBUTARY TO SEDIMENT BASIN OR TRAP. BERMS SHALL BE REQUIRED FOR ALL INSTALLATIONS.

ROLLED EARTHEN BERM SHALL BE PROVIDED AND MAINTAINED IMMEDIATELY DOWN GRADIENT OF THE PROTECTED INLET UNTIL ROADWAY IS STONED. ROAD SUBBASE BERM SHALL BE MAINTAINED UNTIL ROADWAY IS PAVED. SIX INCH MINIMUM HEIGHT ASPHALT BERM SHALL BE MAINTAINED UNTIL ROADWAY SURFACE RECEIVES FINAL COAT.

SEDIMENT SHALL BE REMOVED WHEN IT REACHES HALF THE HEIGHT OF THE STONE. DAMAGED OR CLOGGED INSTALLATIONS SHALL BE REPAIRED OR REPLACED IMMEDIATELY.

FOR SYSTEMS DISCHARGING TO HQ OR EV SURFACE WATER, A 6 INCH THICK COMPOST LAYER SHALL BE SECURELY ANCHORED ON OUTSIDE AND OVER TOP OF STONE.

DO NOT USE ON MAJOR PAVED ROADWAYS WHERE PONDING MAY CAUSE TRAFFIC HAZARDS.

STANDARD CONSTRUCTION DETAIL #4-17
STONE AND CONCRETE BLOCK INLET
PROTECTION - TYPE C INLET

TABLE 8.1 GRASS ESTABLISHMENT ALTERNATIVES

TABLE 6.1 GIVIGG EGTABLIGHMENT ALTERNATIVES					
ESTABLISHMENT TECHNIQUE	CONDITIONS				
1a. HYDROSEEDING	SLOPES LESS THAN 5% VELOCITY LESS THAN 3 FEET (1M) PER SECOND.				
1b. ESTABLISHING BERMUDA GRASS BY SPRIGGING	MAJORITY OF DRAINAGE CAN BE DIVERTED AWAY FROM CHANNEL DURING GERMINATION AND ESTABLISHMENT. EROSION RESISTANT SOIL.				
2. SEEDING WITH STRAW MULCH AND JUTE MESH OR EROSION NETTING	SLOPES LESS THAN 5%. VELOCITY LESS THAN 5 FEET (1.5 M) PER SECOND. MAJORITY OF DRAINAGE CANNOT BE DIVERTED FROM CHANNEL DURING GERMINATION AND ESTABLISHMENT. MODERATELY ERODIBLE SOIL.				
3. SODDING	SLOPES GREATER THAN 5%. VELOCITY LESS THAN 5 FEET (1.5 M) PER SECOND. MAJORITY OF DRAINAGE CANNOT BE DIVERTED FROM CHANNEL DURING GERMINATION AND ESTABLISHMENT. HIGHLY ERODIBLE SOIL.				

THE DETAILS FOR EACH ALTERNATIVE ARE AS FOLLOWS:

- 1A. HYDROSEEDING. ALL SEEDING SHALL BE DONE IN ACCORDANCE WITH PERMANENT SEEDING (IN CHAPTER 4). WHEN MULCHING, USE 2 TONS PER ACRE (4.4 T/HA) SMALL GRAIN STRAW WITH AN ACCEPTABLE TACKING AGENT (SEE MULCHING [IN CHAPTER 4]).
- 1B. ESTABLISHING BERMUDA GRASS BY SPRIGGING. IRRIGATION WATER MUST BE AVAILABLE DURING THE FIRST FOUR WEEKS. DIVERT DRAINAGE AWAY FROM THE CHANNEL DURING THE FIRST THREE WEEKS OF THE ESTABLISHMENT PERIOD BY USING TEMPORARY BERMS, SILT FENCING, OR STRAW BALE BARRIERS.
- 2. SEEDING WITH STRAW MULCH AND JUTE MESH OR EROSION NETTING. IN ADDITION TO ITEM 1.A ABOVE, SECURE STRAW MULCH WITH NETTING. IF USING JUTE MESH, USE ONLY 1 TON PER ACRE (2.2 T/HA) SMALL GRAIN STRAW, EVENLY DISTRIBUTED. IF USING A LIGHT PLASTIC OR PAPER EROSION NETTING, 1 1/2 TO 2 TONS PER ACRE (3.3 TO 4.4 T/HA) OF STRAW IS APPROPRIATE. CARE SHOULD BE TAKEN TO STAPLE THE MESH OR NETTING ACCORDING TO THE SPECIFICATIONS IN MULCHING (IN CHAPTER 4). MANY TYPES OF EROSION CONTROL MATS AND BLANKETS, USED ALONE, ARE ACCEPTABLE MULCHES FOR THE ESTABLISHMENT OF SWALES. SOME OF THESE PRODUCTS ARE ALSO PRE-SEEDED.
- 3. SODDING. WHEN USING STRIP SOD, FOLLOW THE RECOMMENDATIONS IN SODDING, INSTALLATION, PART D (IN CHAPTER 4). ANOTHER SUITABLE PRODUCT IS ROLLED SOD, WHICH COMES ON ROLLS 2 TO 5 FEET (60 TO 150 CM) WIDE AND 50 TO 100 FEET (15 TO 30M) LONG. THE SOD IS GROWN THROUGH A PLASTIC MESH THAT OFFERS ADDITIONAL STRENGTH AND EROSION RESISTANCE.

4.7 MULCHING

DEFINITION

THE APPLICATION OF PLANT RESIDUES OR OTHER SUITABLE MATERIALS TO THE SOIL SURFACE.

PURPOSES

- 1. TO PREVENT EROSION BY PROTECTING THE SOIL SURFACE FROM RAINDROP IMPACTS AND REDUCING THE VELOCITY OF OVERLAND FLOW
- 2. TO FOSTER THE GROWTH OF VEGETATION BY INCREASING AVAILABLE MOISTURE AND PROVIDING INSULATION AGAINST EXTREME HEAT AND

APPLICATIONS

- AREAS THAT HAVE BEEN PERMANENTLY SEEDED SHOULD BE MULCHED IMMEDIATELY AFTER SEEDING.
- 2. AREAS THAT CANNOT BE SEEDED BECAUSE OF THE SEASON SHOULD BE MULCHED TO TEMPORARILY PROTECT THE SOIL SURFACE. AN ORGANIC MULCH (NOT WOOD FIBER ALONE) SHALL BE USED, AND THE AREA SHOULD THEN BE SEEDED AS SOON AS FEASIBLE IN SPRING.
- MULCH SHALL BE USED TOGETHER WITH PLANTINGS OF TREES, SHRUBS, OR CERTAIN GROUND COVERS THAT DO NOT PROVIDE ADEQUATE SOIL STABILIZATION BY THEMSELVES.
- 4. MULCH SHALL BE USED IN CONJUNCTION WITH THE TEMPORARY SEEDING OPERATIONS SPECIFIED IN TEMPORARY SEEDING (IN THIS CHAPTER).
- 5. MULCHES USED IN AREAS OF CONCENTRATED FLOWS OR FREQUENT INUNDATION SHALL BE PROPERLY ANCHORED TO PREVENT THEM FROM FLOATING AWAY.

SPECIFICATIONS

TYPES OF MULCHES

- 1. ORGANIC MULCHES ORGANIC MULCHES MAY BE USED IN ANY AREA WHERE MULCH IS REQUIRED, SUBJECT TO THE RESTRICTIONS NOTED IN TABLE 4.1. SELECT MULCH MATERIAL BASED ON SITE REQUIREMENTS, THE AVAILABILITY OF MATERIALS, AND THE AVAILABILITY OF LABOR AND EQUIPMENT. THE TABLE LISTS THE MOST COMMONLY USED ORGANIC MULCHES. OTHER MATERIALS, SUCH AS PEANUT HULLS AND COTTON BURS, MAY ALSO BE USED. MULCH MATERIALS SHALL BE SPREAD UNIFORMLY, BY HAND OR MACHINE. WHEN SPREADING STRAW BY HAND, DIVIDE THE AREA TO BE MULCHED INTO APPROXIMATELY 1,000-SQUARE-FOOT SECTIONS AND PLACE 70 TO 90 POUNDS (1 1/2 TO 2 BALES) (30 TO 40 KG) OF STRAW IN EACH SECTION, TO FACILITATE UNIFORM DISTRIBUTION.
- 2. NETS, MATS, AND BLANKETS NETS MAY BE USED ALONE ON LEVEL AREAS, ON SLOPES NO STEEPER THAN 3:1, AND IN WATERWAYS, AS SPECIFIED IN STORMWATER CONVEYANCE CHANNEL (SEE CHAPTER 6). WHEN MULCHING IS DONE IN LATE FALL OR DURING JUNE, JULY, OR AUGUST, OR WHERE SOIL IS HIGHLY ERODIBLE, NET SHOULD ONLY BE USED IN CONJUNCTION WITH AN ORGANIC MULCH SUCH AS STRAW. WHEN NET AND ORGANIC MULCH ARE USED TOGETHER, THE NET SHOULD BE INSTALLED OVER THE MULCH, EXCEPT WHEN THE MULCH IS WOOD FIBER. WOOD FIBER MAY BE SPRAYED ON TOP OF THE INSTALLED NET. EXCELSIOR BINDERS ARE PROTECTIVE MULCHES AND MAY BE USED ALONE ON ERODIBLE SOILS AND THROUGHOUT THE YEAR. JUTE NET SHALL BE HEAVY, UNIFORM CLOTH WOVEN OF SINGLE JUTE YARN, WHICH IF 36 TO 48 INCHES (90 TO 120 CM) WIDE SHALL WEIGH AN AVERAGE OF 1.2 POUNDS PER LINEAR YARD (0.6 KG/M). OTHER PRODUCTS DESIGNED TO CONTROL EROSION SHALL CONFORM TO THE MANUFACTURER'S SPECIFICATIONS AND SHOULD BE APPLIED IN ACCORDANCE WITH THE MANUFACTURER'SINSTRUCTIONS, PROVIDED THOSE INSTRUCTIONS ARE AT LEAST AS STRINGENT AS THIS SPECIFICATION. EXAMPLES OF THESE PRODUCTS INCLUDE EROSIONET, HOLDGRO, WEEDCHEK, AND CURLEX. (NOTE: THE USE OF TRADE NAMES DOES NOT CONSTITUTE A PRODUCT ENDORSEMENT BY DEP). IN NO CASE SHALL THESE PRODUCTS COVER LESS THAN 30 % OF THE SOIL SURFACE

TABLE 4.1 ORGANIC MULCH MATERIALS AND APPLICATION RATES

	TABLE 4.1 ORGANIC MULCH MATERIALS AND APPLICATION RATES						
	MULCHES	RATE PER ACRE	RATE PER 1000 SQUARE FEET	NOTES			
	STRAW	2 TONS	70 - 90 POUNDS	FREE FROM WEEDS AND COARSE MATTER. MUST BE ANCHORED. SPREAD WITH MULCH BLOWER OR BY HAND.			
	WOOD FIBERS	0.5 - 1.0 TONS	25 - 50 POUNDS	FIBERS 1.5 INCH MINIMUM LENGTH. DO NOT USE ALONE IN WINTER OR DURING HOT, DRY WEATHER. APPLY AS SLURRY.			
	WOOD CHIPS	4 - 6 TONS	185 - 275 POUNDS	FREE OF COARSE MATTER. AIR DRIED. TREAT WITH 12 POUNDS NITROGEN PER TON. DO NOT USE IN FINE TURF AREAS. APPLY WITH MULCH BLOWER OR CHIP HANDLER, OR BY HAND.			
	SHREDDED BARK CHIPS	50 - 70 CUBIC YARDS	1 - 2 CUBIC YARDS	FREE OF COARSE MATTER. AIR DRIED. DO NOT USE IN FINE TURF AREAS. APPLY WITH MULCH BLOWER OR CHIP HANDLER OR BY HAND.			

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CITY OF HOLLYWOOD, FLORIDA BROWARD COUNTY, FLORIDA

TASK 4.0 UTILITY RELOCATION JOHNSON STREET

EROSION & SEDIMENT CONTROL DETAIL PLAN

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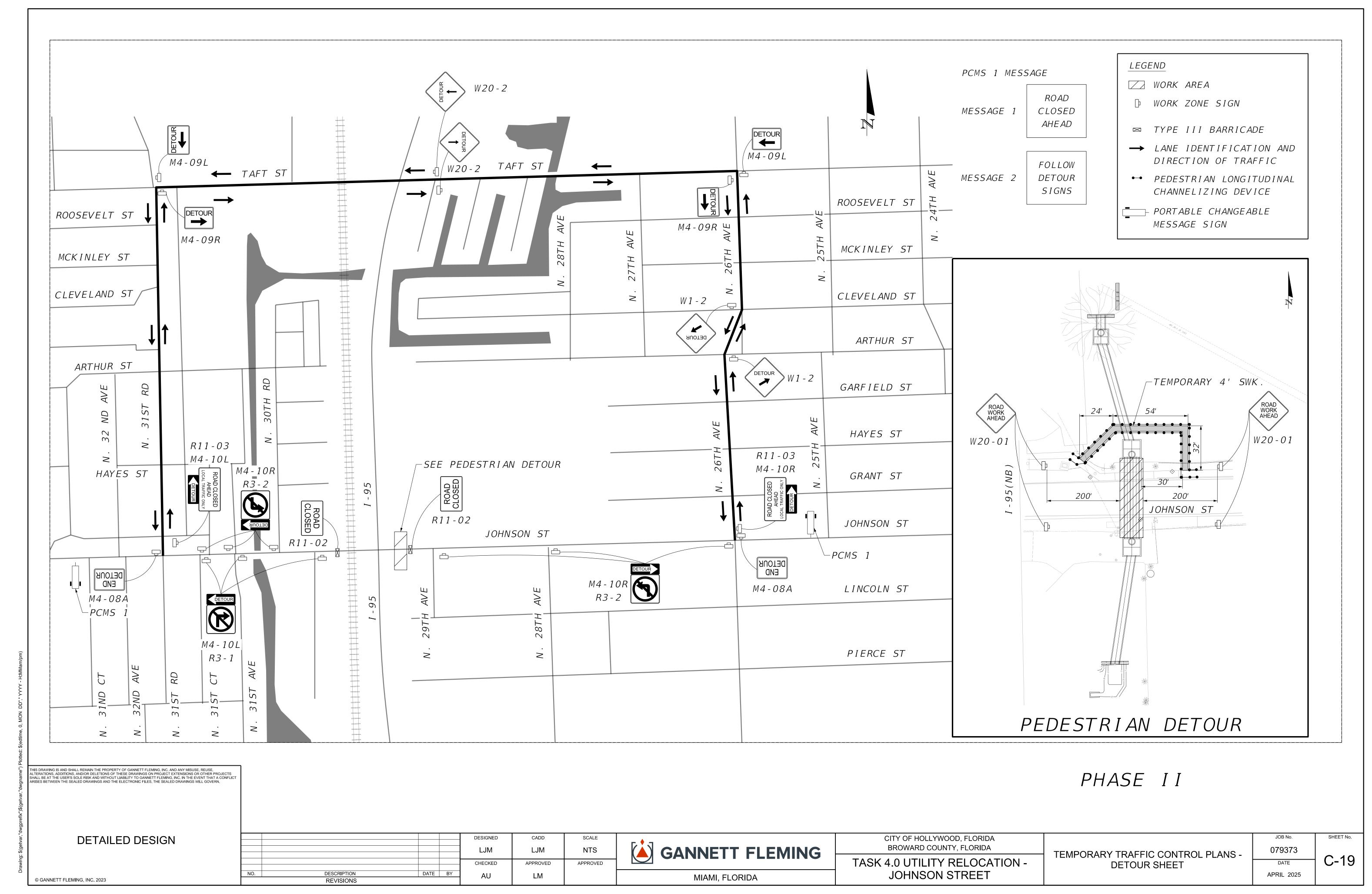
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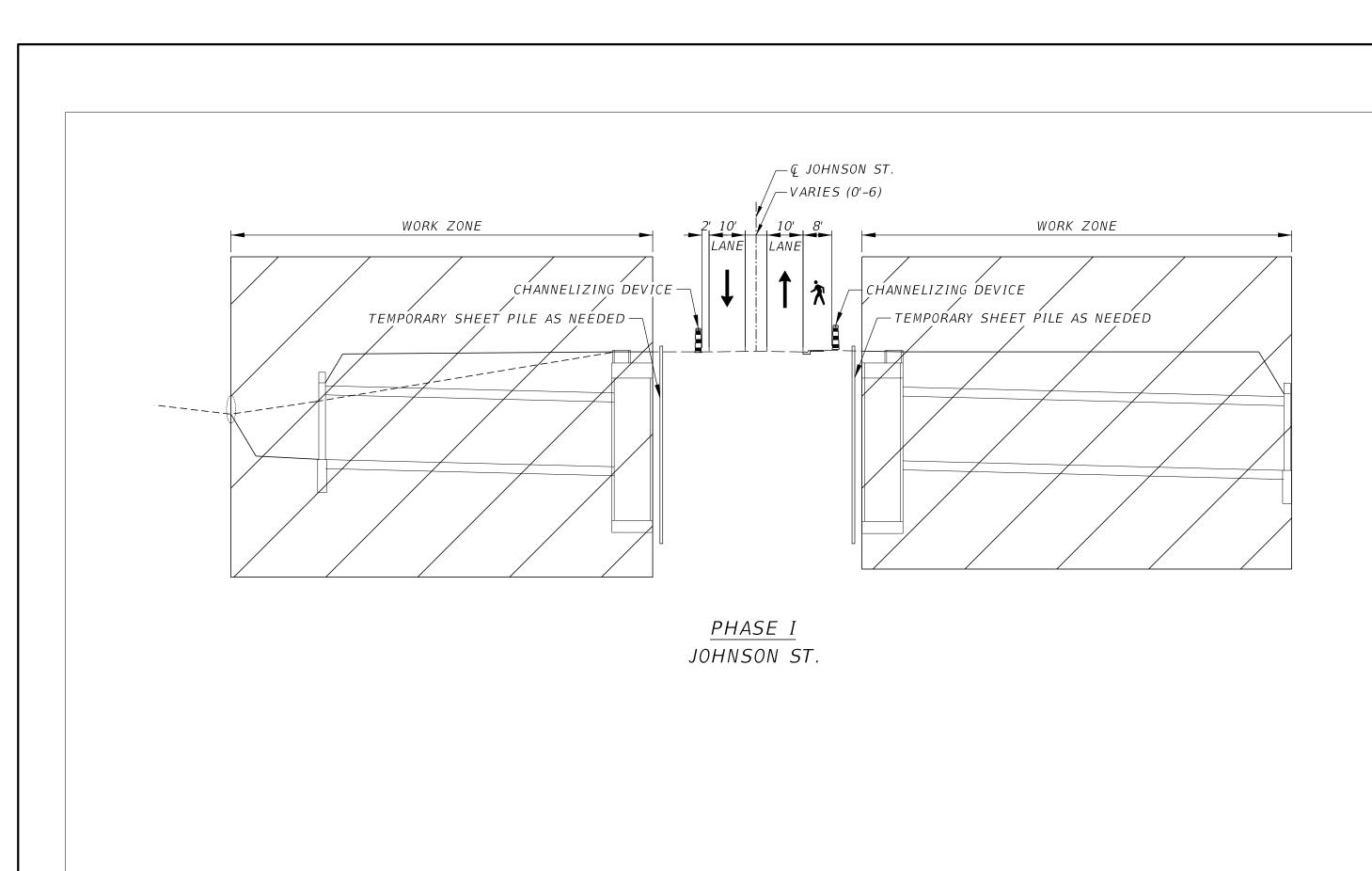
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<u>PHASE II</u>

PHASE I

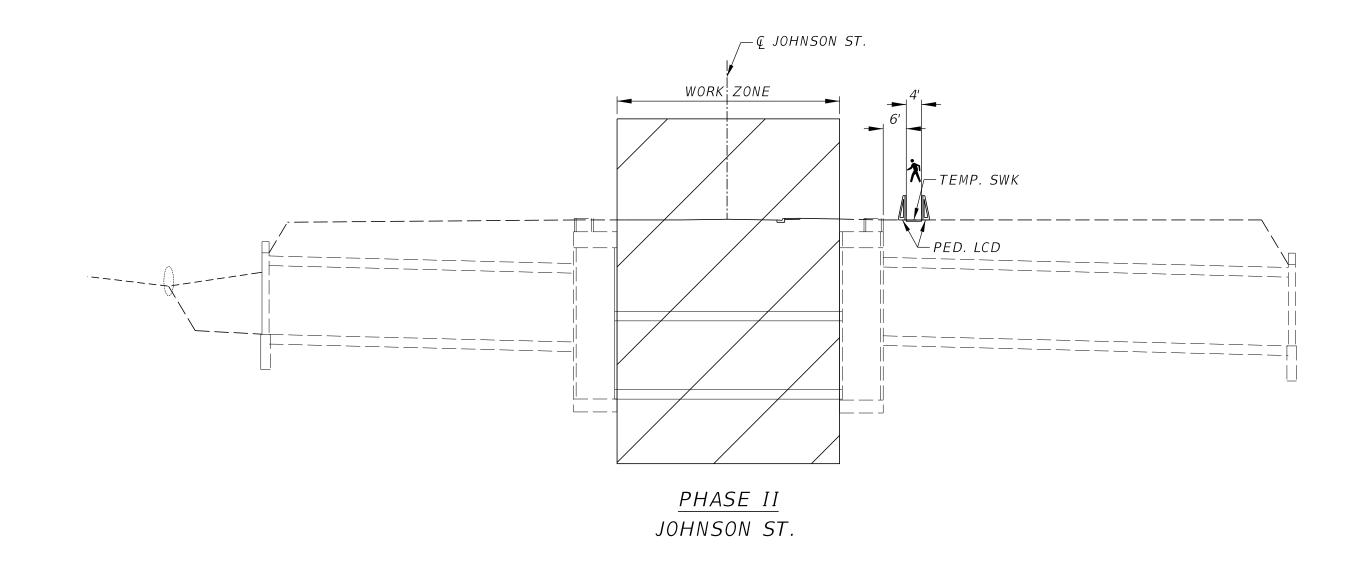
INDEX NO. 102-600, 102-601

1. INSTALL TEMPORARY TRAFFIC CONTROL DEVICES PER FDOT STANDARD PLANS INDEX NO. 102-600, 102-625, 102-660.

1. INSTALL TEMPORARY TRAFFIC CONTROL DEVICES PER FDOT STANDARD PLANS

2. INSTALL PROPOSED STRUCTURES AND PIPES, OUTSIDE OF EXISTING TRAFFIC.

- 2. PERFORM FULL ROAD CLOSURE TO INSTALL PROPOSED PIPES UNDER THE EXISTING ROADWAY.
- 3. MAINTAIN PEDESTRIAN TRAFFIC AS PER INDEX 102-660 USING A TEMPORAY WALKWAY.
- 4. INSTALL PROPOSED PIPES UNDER EXISTING ROADWAY.
- 5. PERFORM PAVEMENT, CURB, AND SIDEWALK RESTORATION.



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DETAILED DESIGN

LJM

CHECKED

NO. DESCRIPTION DATE BY

AU

REVISIONS

NTS
APPROVED

GANNETT FLEMING

MIAMI, FLORIDA

CITY OF HOLLYWOOD, FLORIDA
BROWARD COUNTY, FLORIDA

TASK 4.0 UTILITY RELOCATION JOHNSON STREET

TEMPORARY TRAFFIC CONTROL PLANS -TYPICAL SECTION DATE
APRIL 2025

SHEET No.

SHEET No.

C-20

CADD

APPROVED

S.R.: 9/I-95

EXHIBIT C

MAINTENANCE PLAN REQUIREMENTS

The **AGENCY** shall submit to the **DEPARTMENT** a maintenance plan within the **AGENCY** limits, which is described in **Exhibit A**, detailing the means and methods for accomplishing the maintenance related activities in accordance with all **DEPARTMENT** Standards, Procedures and Specifications. This plan shall be submitted and approved by the **DEPARTMENT** prior to commencing any maintenance or repair activities. The **AGENCY** shall comply with the **DEPARTMENT'S** applicable Maintenance Rating Program (MRP) Standards. The plan should at minimum detail how the **AGENCY** will address the following:

- Provide for continuous traffic control and necessary traffic control devices, as required for the safe movement of traffic of vehicular and pedestrian traffic, past the location of the structure being repaired for the duration of the repair in accordance with **DEPARTMENT** Standards, Procedures and Specifications, as well as compliance with all applicable laws including, but not limited to, the ADA.
- 2. How the **IMPROVEMENTS** will be kept clean, and free of trash, debris, and graffiti.
- How the IMPROVEMENTS will be kept in good repair and repair/replacement of damaged, defective, or worn elements whether due to normal wear and tear, acts of God, vandalism, or accidents.
- 4. Protect adjacent surrounding property, real estate, vehicles, pedestrians, or other maintenance related activities.
- 5. Maintain the **IMPROVEMENTS** in a manner to protect against injury to any person or property.
- 6. Containment of debris or materials used in or resulting from the repair.
- 7. In the event of significant damage, the **AGENCY** shall immediately report the damage to the **DEPARTMENT** and Palm Beah County and the **AGENCY** shall immediately take an and all steps reasonably necessary to protect injury to any person or property.

After the maintenance plan is approved, the **AGENCY** shall submit a work plan to the **DEPARTMENT** for approval prior to each repair to be performed detailing:

- 1. The proposed date of the repair.
- 2. The location of the repair.
- 3. The nature of the repair.
- 4. The materials to be used for the repair.
- 5. The methods to be used for the repair.