



February 20, 2024

Paul Rodas, P.E.
City Engineer and Permit Section Manager
City of Coral Gables
Department of Public Works
2800 SW 72nd Avenue
Miami, FL 33155

Re: Outside Sewer Connection Agreement

Centennial Village Phase 2B (Hecht Replacement)

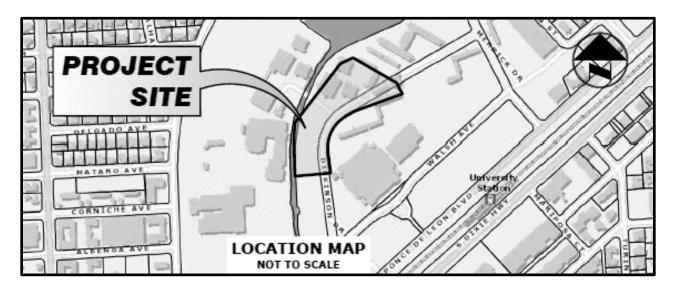
1231 Dickinson Dr. PAFF-21-09-0002

Dear Mr. Rodas,

Pursuant to the City of Coral Gables Code Sec. 78-102, the University of Miami is requesting permission to commence the necessary process for the approval of an outside sewer connection to the City of Coral Gables sanitary sewer system for the above-referenced project by means of a connection to an existing sanitary sewer manhole on the University of Miami campus that discharges to UM Pump Station 77-UM01A.

The following information pertains to the project:

- Applicant: University of Miami
- Applicant Address: 1535 Levante Avenue Coral Gables, FL 33146
- Telephone: 305.284.6749
- Project Address: 1231 Dickinson Dr., Coral Gables, FL 33146
- Legal Description: All of the "Centennial Village Phase IIB," as now existing, laid out and in use, the same being a portion of each of the following: Tr. 1, Tr. 5 and Theo Dickinson Drive, as vacated pursuant to Coral Gables City Ordinance Number 2011-03 recorded June 16, 2011 in Official Records Book 27724 at Page 2651 all as shown on the underlying plat of "Amended Plat Portion of Main Campus University of Miami" according to the plat thereof, as recorded June 30, 1948 in Plat Book 46 at Page 81 of the Public Records of Dade County (now Miami-Dade County), Florida, the location of which being more particularly shown on the map below and described in the attached map and legal description.



- Government Agency having Jurisdiction: See attached allocation letter from Miami-Dade County, DERM approved plans, and DERM permit.
- Proposed additional flows to the City of Coral Gables sewer system: See attached flow calculations including peak flow calculations.

Maximum flow: 20,537 GPH

o Minimum: 0 GPD

Average daily flow: 132,496 GPD
 Previous daily flow: 88,319 GPD
 Net new flow: 44,177 GPD
 Peak daily flow factor: 3.72
 New Peak daily flow: 164,338 GPD

By this letter, The University (applicant) intends to comply with the conditions set forth under the following Chapters 62 and 78 of the City Code, and the terms and conditions that will be stipulated in the Agreement between the City of Coral Gables and the University as follows:

- (1) To pay a connection fee of \$2,100 per 1,000 gallons per day of peak demand paid concurrently upon signing this agreement. The connection charge shall be made on the basis of an agreed upon estimated gallonage, which shall be subject to review at any time after six months; usage and the final connection cost shall be adjusted to reflect actual usage if greater, but in no case less than the amount originally charged. An alternate method of payment for such sewer service connection charges may be granted whereby, in lieu of paying connection charges at time of execution of the customer agreement, the applicant or customer may be permitted to file with the city a cash bond in an amount to be agreed upon between the city manager and the customer, guaranteeing installment payments of said sewer service connection charges.
- (2) To comply with all conditions set forth under chapters 62 and 78 of the City Code, Resolution No. 22601, and any other pertinent ordinances or resolution, copies of which the applicant/customer has reviewed and fully acknowledged by agreeing hereto, except that rates applied to connecting outside the city shall be 25 percent greater than the rates applicable to the same connection within the city. If the connection is outside existing sanitary sewer districts but inside the city, the 25 percent additional rate shall not apply.

- (3) To the billing and collecting of sewer service charges as determined by the city. Other agencies, for example the Miami-Dade Water and Sewer Department, may be designated by the city to bill and/or collect sewer service charges. Sewer service charges shall be due within ten days of receipt of billing by the customer. If the sewer service charges remain unpaid 30 days after due date, the city may have water services to the property disconnected. All sewer service charges to any building or structure or unit remaining unpaid 30 days after the due date shall become a lien against and upon the lands to which service has been furnished to the same extent as the lien for special assessments in the city, with the same penalties and the same right of collection and sale as would apply for Coral Gables taxes.
- (4) To pay the entire cost of whatever facilities are required from the source of the sewage to the point of connection with the Coral Gables system.
- (5) To furnish the city attorney with a copy of the deed for each unit of property making outside connection.
- (6) To install and maintain facilities for such pre-treatment of wastes as may from time to time be found necessary to render the wastes suitable for handling and treatment by the city without creation of nuisances. Under operational difficulty, the reasonable determination by the city and the city consulting engineers shall be binding. The following shall be required in all cases:
 - a. Grease separation facilities without exception.
 - b.Comminutors except where flow is directly to a city comminutor.
 - c. Screen at the discretion of the city in case of laundries and similar sources of rags, string and lint.
- d. Prechlorination in case of long force mains.
- (7) To provide the city with plans and specifications in quadruplicate for applicant/customer sanitary sewer facilities as prepared by a registered civil engineer, licensed to practice in the State of Florida and fully experienced and qualified in the design of sanitary sewer systems. Said plans and specifications shall be reviewed by the city and returned to the applicant/customer marked for revision until the plans are returned marked approved and signed as such by the director of public works. A composite plan/profile survey of existing utilities shall be prepared of each Coral Gables right-of-way through which a pipeline run is proposed, showing the exact relationship between and among all existing and proposed facilities. The city may refuse to process the plans unless the composite picture is complete, so that the most feasible route with the least inconvenience to residents may be confirmed by the director of public works.
- (8) To provide a cut-off valve at the point of connection with the Coral Gables system. This cut-off valve shall be shown and described in the above plans and specifications.
- (9) To provide the city with a letter from said licensed/registered engineer stating that said engineering services have been retained to provide full-time resident inspection during construction and installation of said facilities. Upon completion of the installation, said engineer shall certify in writing that the work has been fully and properly installed, and that infiltration is within allowable limits.
- (10) To have proposed installation shown on said approved plans and specifications constructed and installed only by a fully licensed and qualified contractor who shall also obtain all prerequisite construction permits from each agency having jurisdiction prior to initiating work in the field. The public works director may withhold or withdraw issuance of city right-of-way permit if compliance with portions of Step II implementation by the applicant becomes overdue.

- (11) To keep city informed of work progress and connections inside and outside the city so that city inspectors may confirm the integrity of the facilities at each key point.
- (12) To be solely responsible for continuing maintenance and operation of said facilities. The city reserves the right to inspect the facilities and to require the applicant to have timely repairs made, where infiltration or other defects are adversely affecting the cost and operation of the city's sanitary sewer system. Failure of the applicant/customer to remedy defects shall be cause for termination of agreement and disconnection of the service. The occupants or tenants of the connected property shall be informed by the customer that the city is not responsible for such maintenance and operation.
- (13) To not permit any other connection to the customer's connecting lines to the city system except those listed in the agreement. Any additional connections, if permitted, shall be subject to approval by the city as stated herein and the original connection charge shall be increased to reflect the additional sewage added. Additional connectors shall furnish the city with prior written approval by the original owner of the line and all prior connectors to said line.
- (14) To limit the peak sewage flow from the outside sewer connection insofar as the property, zoning, size, type and/or density of the facility herein approved for connection, and any proposed change thereto which would generate significant increase in peak sewage discharged into the Coral Gables sanitary sewer system shall require prior approval by Coral Gables for such increased sewage discharge in accordance with the terms of this resolution.
- (15) To provide that the monthly charge computed at the volumetric base rate be multiplied by a value of unity for a monthly average BOD of 250 ppm or under, said value to be increased by a surcharge factor of one-quarter percent per part per million on monthly average BOD in excess of 250 ppm, as follows and as interpolation thereof:

MONTHLY BOD N	MULTIPLIER
250 ppm or less	1.000
260	1.025
270	1.050
280	1.075
290	1.100
300	1.125
400	1.375
500	1.625
1,000	2.875

- (16) To provide for and bear the cost of sampling with suitable sampling facilities when reasonable cause for sampling exists. The city shall give the customer or tenant reasonable notice when sampling is necessary, and qualified city representatives shall thereafter perform the necessary sampling as efficiently as possible.
- (17) To reconnect to the city sewer system at the customer's expense in a manner acceptable to the city, when sewering is completed to a new area in the city which can more efficiently and effectively serve the customer's outside connection.
- (18) To provide liability insurance in the amounts required by Resolution No. 2008-07, naming the City of Coral Gables as additional insured and covering any damages to public or private property due to a failure in the customer's facilities. A certification of insurance shall be required at the execution of the agreement in a form acceptable to the City of Coral Gables.

- (19) To provide a maintenance bond or other surety in the amount of five percent of the construction cost to assure timely repair of the customer's facilities should a failure occur, said surety to run in perpetuity or until the connection is no longer required.
- (20) To bear the expense of recording the agreement encompassing the above terms in the Public Records of Miami-Dade County, Florida, and said agreement shall be a covenant running with the land which will state that the owner will not convey or cause to be conveyed the title to the above property without requiring the successor in title to abide by all of the terms and conditions of said agreement.

Thank you for your time and consideration.

Sincerely,

Jessica E. Brumley Vice-President

Vice-i resident

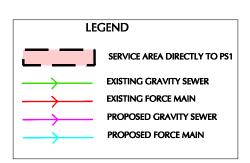
Facilities Operations & Planning

University of Miami

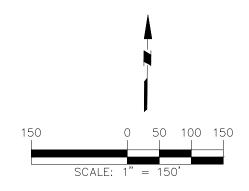
Encl.

Cc: Robert Vale, University of Miami

Deborah Hunley, University of Miami







	BUILDING LEGEND
1	EATON RESIDENTIAL COLLEGE
2	SCHOOL OF ARCHITECTURE
3	JORGE PEREZ ARCHITECTURE BUILDING
4	PENTLAND HOUSE
5	LAGORCE HOUSE
6	WATSCO CENTER & FIELDHOUSE
7	PROPOSED CENTENNIAL VILLAGE PHASE IIB
8	PROPOSED THEATER ARTS

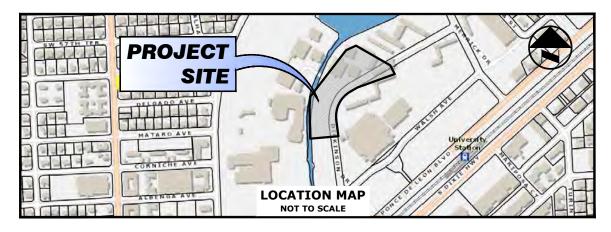
UNIVERSITY OF MIAMI CENTENNIAL VILLAGE SEWERSHED MAP



- 1) EXISTING UTILITY INFORMATION REFERENCED FROM
- UNIVERSITY OF MIAMI GIS PREPARED BY NSIDE.
 2) EXISTING SEWER MATRIX REFERENCED FROM UNIVERSITY OF MIAMI MAIN CAMPUS SEWER MASTER PLAN 2017-2022 PREPARED BY THE CORRADINO GROUP.
- 3) EXISTING FLOWS REFERENCED FROM DERM ALLOCATION LETTER, DERM SEWER EXTENSION PERMITS AND CALCULATED PER MDWASD'S SCHEDULE OF DAILY RATED GALLONAGE FOR VARIOUS OCCUPANCY.
- 4) PROPOSED FLOWS CALCULATED PER MDWASD'S SCHEDULE OF DAILY RATED GALLONAGE FOR VARIOUS OCCUPANCY.



<u>Sketch to accompany legal description</u>



SURVEYOR'S REPORT
SKETCH TO ACCOMPANY LEGAL DESCRIPTION
HECHT REPLACEMENT SITE
CENTENNIAL VILLAGE AT THE UNIVERSITY OF MIAMI
CITY OF CORAL GABLES, MIAMI-DADE COUNTY, FLORIDA

ARTICLE I DEFINITIONS, GENERALLY:

CLIENT: SHALL MEAN THE UNIVERSITY OF MIAMI, A FLORIDA CORPORATION NOT-FOR-PROFIT.

SURVEY MAP: SHALL MEAN THE GRAPHIC DEPICTION OF THE SURVEY IN THE FORM OF THE "SKETCH TO ACCOMPANY LEGAL DESCRIPTION" MAP ATTACHED HERETO. MADE A PART HEREOF AND INCORPORATED HEREIN BY REFERENCE.

SUBJECT PROPERTY: SHALL MEAN ALL THAT LOT, PIECE OR PARCEL OF LAND INDICATED IN THE LEGAL DESCRIPTION PORTION (ARTICLE III) OF THIS REPORT, REFERENCE TO WHICH IS MADE FOR A MORE FULL AND COMPLETE DESCRIPTION THEREOF.

COUNTY: SHALL MEAN "MIAMI-DADE COUNTY", A POLITICAL SUBDIVISION OF THE STATE OF FLORIDA, THE NAME OF WHICH WAS CHANGED FROM "DADE COUNTY" BY ITS ELECTORS ON NOVEMBER 13, 1997 AND CODIFIED BY ITS BOARD OF COUNTY COMMISSIONERS PURSUANT TO ORDINANCE NUMBER 97-212. ALL REFERENCES TO DOCUMENTS FILED FOR RECORD PRIOR TO THAT DATE SHALL REFER TO THE PREVIOUS COUNTY NAME AND DOCUMENTS FILED FOR RECORD (OR CITATION BY COMMON REPORT, AS THE CASE MAY BE) SUBSEQUENT TO THAT DATE SHALL MAKE REFERENCE TO THE PRESENT COUNTY NAME.

CITY: SHALL MEAN THE CITY OF CORAL GABLES, A MUNICIPAL CORPORATION OF THE STATE OF FLORIDA.

ARTICLE II LEGAL DESCRIPTION:

ALL THAT LOT, PIECE OR PARCEL OF LAND SITUATE, LYING AND BEING IN SECTION 30, TOWNSHIP 54 SOUTH, RANGE 41 EAST, CITY OF CORAL GABLES, MIAMI-DADE COUNTY, FLORIDA, BEING A PORTION OF EACH OF THE FOLLOWING: TR. 1, TR. 5 AND THEO. DICKINSON DRIVE, AS VACATED PURSUANT TO CORAL GABLES CITY ORDINANCE NUMBER 2011-03 RECORDED JUNE 16, 2011 IN OFFICIAL RECORDS BOOK 27724 AT PAGE 2651, ALL AS SHOWN ON THE UNDERLYING PLAT OF "AMENDED PLAT PORTION OF MAIN CAMPUS UNIVERSITY OF MIAMI," ACCORDING TO THE PLAT THEREOF, AS RECORDED JUNE 30, 1948 IN PLAT BOOK 46 AT PAGE 81, WITH THE ENTIRETY OF THE FOREGOING AS FILED FOR RECORD WITH THE CLERK OF THE CIRCUIT COURT IN THE PUBLIC RECORDS OF MIAMI-DADE COUNTY, FLORIDA AND THE SAME BEING MORE PARTICULARLY DESCRIBED BY METES AND BOUNDS AS FOLLOWS, VIT

COMMENCE AT THE POINT OF INTERSECTION OF THE CENTERLINE OF GEO. E. MERRICK ST. WITH THE CENTERLINE OF THEO. DICKINSON DRIVE AS SHOWN ON SAID PLAT OF "AMENDED PLAT PORTION OF MAIN CAMPUS UNIVERSITY OF MIAMI;" THENCE \$60°17'57"W ALONG SAID CENTERLINE OF THEO. DICKINSON DRIVE FOR \$37.94 FEET. TO THE POINT OF BEGINNING OF THE HEREINAFTER DESCRIBED PARCEL OF LAND; FROM SAID POINT OF BEGINNING AND DEPARTING SAID CENTERLINE OF THEO. DICKINSON DRIVE, CROSSING THE SOUTHEASTERLY RIGHT OF WAY LINE OF SAME AND ENTERING THE INTERIOR OF SAID TR. 5, \$22°16'13"E FOR 95.57 FEET; THENCE \$70°08'54"W FOR 382.83 FEET TO A POINT OF INTERSECTION WITH SAID SOUTHEASTERLY RIGHT OF WAY LINE OF THEO. DICKINSON DRIVE AND THE NORTHWESTERLY LINE OF SAID TR. 5; THENCE \$60°17'57"W ALONG SAID SOUTHEASTERLY RIGHT OF WAY LINE OF THEO. DICKINSON DRIVE AND THE NORTHWESTERLY LINE OF TR. 5 FOR 81.71 FEET TO A POINT OF CURVATURE OF A CIRCULAR CURVE CONCAVE TO THE SOUTHEAST; THENCE SOUTHWESTERLY ALONG SAID SOUTHEASTERLY RIGHT OF WAY LINE OF THEO. DICKINSON DRIVE AND THE NORTHWESTERLY LINE OF TR. 5 AND THE ARC OF SAID CURVE, HAVING A RADIUS OF 272.84 FEET AND A CENTRAL ANGLE OF 67°45'00" FOR 322.52 FEET TO THE POINT OF TANGENCY; THENCE SO7°27'03"E ALONG SAID SOUTHEASTERLY RIGHT OF WAY LINE OF THEO. DICKINSON DRIVE AND THE NORTHWESTERLY LINE OF TR. 5 FOR 160.59 FEET; THENCE DEPARTING SAID SOUTHEASTERLY RIGHT OF WAY LINE OF THEO. DICKINSON DRIVE AND THE NORTHWESTERLY LINE OF TR. 5, CROSSING THE 60-FOOT WIDE RIGHT OF WAY OF SAID THEO. DICKINSON DRIVE AND ENTERING THE INTERIOR OF SAID TR. 1, \$85°00'21"W FOR 275.13 FEET; THENCE NO1°49"W FOR 307.39 FEET; THENCE N03°37'21"E FOR 99.17 FEET; THENCE N37°35'11'E FOR 568.61 FEET: THENCE N65°21'29"E FOR 106.15 FEET: THENCE S60'10'58"E FOR 382.46 FEET TO THE POINT OF BEGINNING.

THE FOREGOING PARCEL OF LAND LYING AND BEING WITHIN THE BOUNDARIES OF THE "UM CENTENNIAL VILLAGE," PURSUANT TO THAT CERTAIN AGREEMENT BETWEEN THE UNIVERSITY OF MIAMI, A FLORIDA CORPORATION NOT-FOR-PROFIT AND THE MIAMI-DADE COUNTY WATER AND SEWER DEPARTMENT, AS RECORDED DECEMBER 5, 2019 IN OFFICIAL RECORDS BOOK 31715 AT PAGE 4038 OF THE PUBLIC RECORDS OF MIAMI-DADE COUNTY, FLORIDA

SAID PARCEL CONTAINS 7.17 ACRES OR 312307 SQUARE FEET, MORE OR LESS.

THIS DOCUMENT CONSISTS OF 3 SHEETS AND EACH SHEET SHALL NOT BE CONSIDERED FULL, VALID AND COMPLETE UNLESS ATTACHED TO THE OTHERS.

NOT A BOUNDARY SURVEY

ATKINS

FLORIDA CERTIFICATE OF AUTHORIZATION NUMBER LB24

800 Waterford Way Suite 700 Miami, FL 33126 (305) 592-7275

UNIVERSITY OF MIAMI

HECHT REPLACEMENT SITE UNIVERSITY OF MIAMI



JOB NO. 100068084 044

DRAWN E.F.

CHECKED D.A.

QC

SHEET: 1 OF 3

SKETCH TO ACCOMPANY LEGAL DESCRIPTION

ARTICLE III SOURCES OF DATA:

- 1. THE RECORDED PLAT OF "AMENDED PLAT PORTION OF MAIN CAMPUS UNIVERSITY OF MIAMI," ACCORDING TO THE PLAT THEREOF, AS RECORDED JUNE 30, 1948 IN PLAT BOOK 46 AT PAGE 81 OF THE PUBLIC RECORDS OF DADE COUNTY (NOW MIAMI-DADE COUNTY), FLORIDA.
- 2. THE RECORDED INSTRUMENTS AS SET FORTH IN THE LEGAL DESCRIPTION.
- 3. SURVEYS OF ADJACENT SITES PREPARED AT THE INSISTENCE OF THE UNIVERSITY OF MIAMI BY THIS FIRM FOR PREVIOUS PROJECTS, INCLUDING MAPS REPRESENTING SAID SURVEYS THAT ARE ON FILE WITH THE SURVEYOR AND WITH THE UNIVERSITY OF MIAMI, REFERENCE TO WHICH IS MADE FOR A MORE FULL AND COMPLETE DESCRIPTION OF THE CONTENTS THEREOF.
- 4. BEARINGS AS SHOWN HEREON REFER TO A CALCULATED BEARING OF S60°17'57"W ALONG THE CENTERLINE OF THEO. DICKINSON DRIVE STEMMING FROM ITS INTERSECTION WITH GEO. E. MERRICK ST. AS INDICATED ON THE SURVEY MAP. THIS BEARING WAS COMPUTED BASED ON THE STATE PLANE COORDINATE SYSTEM FOR THE EAST ZONE OF FLORIDA, NORTH AMERICAN DATUM OF 1983/2011 ADJUSTMENT (NAD83/11). FOR COMPARATIVE PURPOSES, THE BEARING OF THE SAME LINE BASED ON THE UNDERLYING RECORDED PLAT IS N62°49'30"E.
- 5. THE BOUNDARIES OF THE RIGHTS OF WAY AND TRACTS AS INDICATED ON THE SURVEY MAP WHERE ACQUIRED FROM THE UNDERLYING PLAT OF RECORD AND OTHER RECORDED DATA AS MORE FULLY SHOWN ON THE SURVEY MAP.
- 6. TAX FOLIO ENTRIES PUBLISHED BY THE MIAMI-DADE COUNTY PROPERTY APPRAISER'S OFFICE FOR THE 2022 TAX YEAR.

ARTICLE IV LIMITATIONS:

- 1. SINCE NO OTHER INFORMATION OTHER THAN WHAT IS CITED IN THE SOURCES OF DATA WERE FURNISHED, THE CLIENT IS HEREBY ADVISED THAT THERE MAY BE LEGAL RESTRICTIONS ON THE SUBJECT PROPERTY THAT ARE NOT SHOWN ON THE MAP OR CONTAINED WITHIN THIS REPORT THAT MAY BE FOUND IN THE PUBLIC RECORDS OF MIAMI-DADE COUNTY, THE CITY OF CORAL GABLES, OR THE RECORDS OF ANY OTHER PUBLIC AND PRIVATE ENTITIES AS THEIR JURISDICTIONS MAY APPEAR. THE SURVEYOR MAKES NO REPRESENTATION AS TO OWNERSHIP OR POSSESSION OR OCCUPATION OF THE SUBJECT PROPERTY BY ANY ENTITY OR INDIVIDUAL.
- 2. INTERIOR IMPROVEMENTS TO THE SUBJECT PROPERTY WERE NOT LOCATED.
- 3. INFORMATION REGARDING ZONING BOUNDARIES, SETBACK LINES AND OTHER RELATED CONDITIONS AND RESTRICTIONS AS MAY EXIST WERE NOT PROVIDED.
- 4. NOTICE IS HEREBY GIVEN THAT SUNSHINE STATE ONE CALL OF FLORIDA, INC. MUST BE CONTACTED AT 1-800-432-4770 AT LEAST 48 HOURS IN ADVANCE OF ANY CONSTRUCTION, EXCAVATION OR DEMOLITION ACTIVITY WITHIN, UPON, ABUTTING OR ADJACENT TO THE SUBJECT PROPERTY. THIS NOTICE IS GIVEN IN COMPLIANCE WITH THE "UNDERGROUND FACILITY DAMAGE PREVENTION AND SAFETY ACT," PURSUANT TO CHAPTER 556.101-111 OF THE FLORIDA STATUTES.
- 5. THIS "SKETCH TO ACCOMPANY LEGAL DESCRIPTION" DOES NOT REPRESENT A FIELD BOUNDARY SURVEY. SAID DOCUMENT WAS PREPARED FOR THE EXPRESS PURPOSE OF CREATING A DELIMITED AREA FOR A SEWER CONNECTION AGREEMENT WITH THE CITY OF CORAL GABLES.

ARTICLE V EASEMENTS:

NO INFORMATION WAS PROVIDED AS TO THE EXISTENCE OF ANY EASEMENTS OTHER THAT WHAT MAY APPEAR ON THE UNDERLYING PLAT OF RECORD. PLEASE REFER TO THE LIMITATIONS PORTION (ARTICLE VI) OF THIS REPORT WITH RESPECT TO POSSIBLE RESTRICTIONS OF RECORD AND UTILITY SERVICES.

ARTICLE VI CLIENT INFORMATION:

THIS SKETCH TO ACCOMPANY LEGAL DESCRIPTION AND THE SURVEY MAP AND REPORT RESULTING THEREFROM, WERE PREPARED AT THE INSISTENCE OF THE UNIVERSITY OF MIAMI.

ARTICLE VII SURVEYOR'S CERTIFICATE:

THE STATE OF FLORIDA)

) S.S

COUNTY OF MIAMI-DADE)

I HEREBY CERTIFY: THAT THIS SKETCH TO ACCOMPANY LEGAL DESCRIPTION AND THE MAP AND REPORT RESULTING THEREFROM WAS PERFORMED UNDER MY DIRECTION AND IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF, AND FURTHER, THAT SAID SURVEY MEETS THE INTENT OF THE APPLICABLE PROVISIONS OF THE "STANDARDS OF PRACTICE FOR LAND SURVEYING IN THE STATE OF FLORIDA," PURSUANT TO CHAPTER 472.027, FLORIDA STATUTES AND RULE 5J-17 OF THE FLORIDA ADMINISTRATIVE CODE.

ATKINS NORTH AMERICA, INC.

FLORIDA CERTIFICATE OF AUTHORIZATION NUMBER LB24

THE MAP AND REPORT CONSISTING OF 3 SHEETS AND HAS BEEN ELECTRONICALLY SIGNED AND SEALED BY DOUGLAS W. DEANS, REGISTERED LAND SURVEYOR NO. 4140, STATE OF FLORIDA USING A DIGITAL SIGNATURE AND DATE, ON SHEET 2 PURSUANT TO CHAPTER 5J-17, FLORIDA ADMINISTRATIVE CODE, UNDER SECTION 5J-17.062. THE "DIGITAL DATE" MAY NOT REFLECT THE DATE OF SURVEY OR THE LATEST REVISION DATE. PRINTED COPIES OF THIS DOCUMENT ARE NOT CONSIDERED SIGNED AND SEALED AND THE SIGNATURE MUST BE VERIFIED ON ANY ELECTRONIC COPIES.

© 2001-ATKINS NORTH AMERICA, INC. AS SUCCESSOR IN NAME TO PBS&J ALL RIGHTS RESERVED.

U.S. COPYRIGHT OFFICE REGISTRATION NO. TXU1-004-364

FLORIDA CERTIFICATE OF AUTHORIZATION NUMBER LB24

THIS DOCUMENT CONSISTS OF 3 SHEETS AND EACH SHEET SHALL NOT BE CONSIDERED FULL, VALID AND COMPLETE UNLESS ATTACHED TO THE OTHERS.

NOT A BOUNDARY SURVEY

ATKINS NORTH AMERICA INC.

800 Waterford Way Suite 700 Miami, FL 33126 (305) 592-7275

AWING: C:\USERS\ERIK FERNANDEZ\JBM DATA SYSTEM, LLC\GEOMATICS - DOCUMENTS\PROJECTS\ATKINS\2446 - HECHT REPLACEMENT SITE UNIVE

UNIVERSITY OF MIAMI

HECHT REPLACEMENT SITE UNIVERSITY OF MIAMI



ORIGINAL: 8/23/2023
REVISIONS:
1_______
2_____

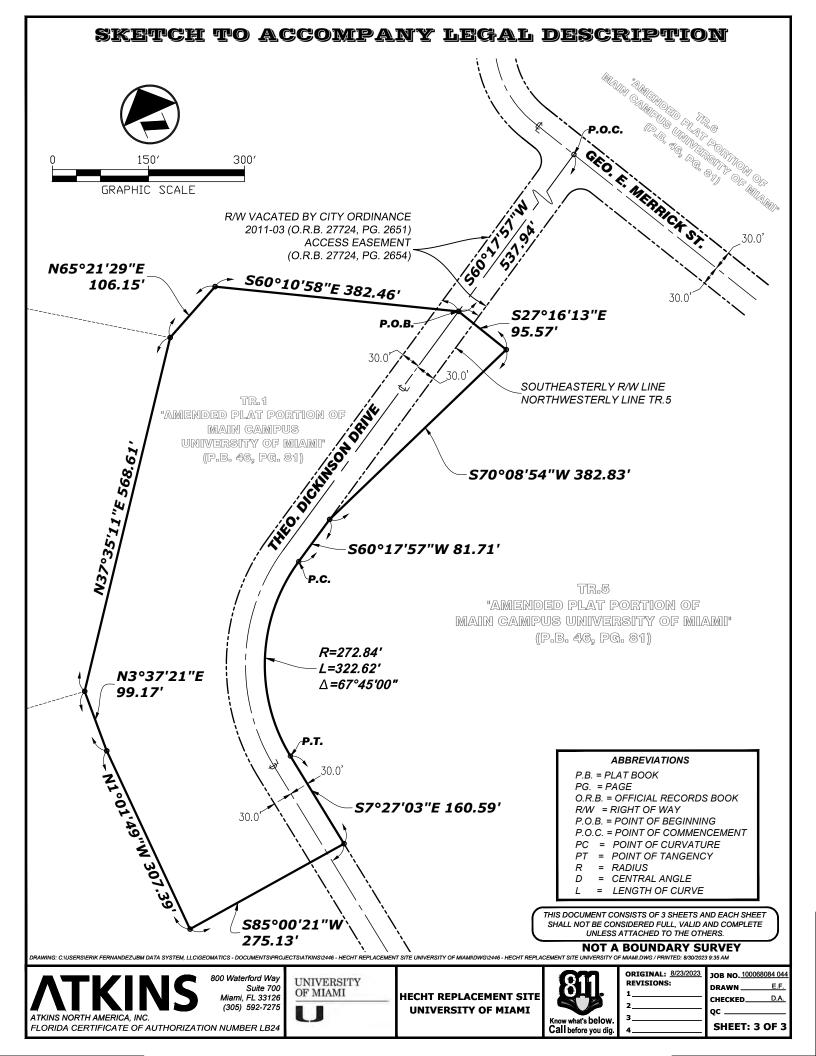
JOB NO. 100068084 044

DRAWN E.F.

CHECKED D.A.

QC

SHEET: 2 OF 3





UNIVERSITY OF MIAMI CENTENNIAL VILLAGE

PHASE IIB SANITARY SEWER EXTENSION **1239 DICKINSON DRIVE** CORAL GABLES, FLORIDA 33146

INDEX OF SHEETS

SHEET NO.	DESCRIPTION
GI001	COVER SHEET
GI101	GENERAL NOTES AND SPECIFICATIONS
EW-CU102	ENABLING WORKS SANITARY SEWER PLAN
CU102	SANITARY SEWER PLAN
EW-CU104	ENABLING WORKS SANITARY SEWER PROFILES
CU104	SANITARY SEWER LATERAL PROFILES

LAKE OSCEOLA **SUBJECT PROPERTY** CONSOLATA AVE PROJECT AREA

PROJECT LOCATION MAP

FOLIO NUMBER: 03-4130-015-0010, 03-4130-015-0020

PROJECT DESCRIPTION:

THE PROJECT CONSIST OF A WATER MAIN EXTENSION THROUGH THE UNIVERSITY OF MIAMI PROPERTY FOR THE UM CENTENNIAL VILLAGE PROJECT. THE PROPOSED WATER MAIN WILL SERVICE THE PROPOSED PHASE IIA DEVELOPMENT WHICH INCLUDES A NEW STUDENT LIVING FACILITY.

THIS PLAN WAS PREPARED UNDER MY DIRECTION AND TO THE BEST OF MY KNOWLEDGE AND BELIEF COMPLIES WITH THE INTENT OF THE MANUAL OF UNIFORM MINIMUM STANDARDS FOR DESIGN, CONSTRUCTION AND METES AND BOUNDS AS FOLLOWS, VIZ .: MAINTENANCE FOR STREETS AND HIGHWAYS, AS ADOPTED BY THE STATE OF FLORIDA LEGISLATURE

SALTWATER INTRUSION AREA. ALL PROP. DIP PIPES AND FITTINGS TO BE ZINC COATED AND SHALL HAVE POLYETHYLENE ENCASEMENT PER M-DWASD DETAIL A 9.0.

SEWER COLLECTION SYSTEM BELONGS TO THE CITY OF CORAL GABLES AND NOT PART OF MDWASD'S REVIEW NOR APPROVAL

ENGINEER'S CERTIFICATION:

CHAPTER 72-328 F.S.

(NOT PART OF MDWASD NOTES NOR APPROVAL)

Sunshine Call 811 or www.sunshine811.com two ful business days before digging to have utilities located and marked. Check positive response codes before you dig!

ALL THAT LOT, PIECE OR PARCEL OF LAND SITUATE, LYING AND BEING IN SECTION 30, TOWNSHIP 54 SOUTH, RANGE 41 EAST, CITY OF CORAL GABLES, MIAMI—DADE COUNTY, FLORIDA, BEING A PORTION OF EACH OF THE FOLLOWING: TR. 1, TR. 5, THE UNIVERSITY WATERWAY, AS QUIT-CLAIMED TO THE UNIVERSITY OF MIAMI BY THE CITY OF CORAL GABLES PURSUANT TO THAT CERTAIN QUIT-CLAIM DEED RECORDED FEBRUARY 16, 2011 IN OFFICIAL RECORDS BOOK 27590 AT PAGE 641, THEO. DICKINSON DRIVE, AS VACATED PURSUANT TO CORAL GABLES CITY ORDINANCE NUMBER 2011—03 RECORDED JUNE 16, 2011 IN OFFICIAL RECORDS BOOK 27724 AT PAGE 2651, ALL AS SHOWN ON THE UNDERLYING PLAT OF "AMENDED PLAT PORTION OF MAIN CAMPUS UNIVERSITY OF MIAMI," ACCORDING TO THE PLAT THEREOF, AS RECORDED JUNE 30, 1948 IN PLAT BOOK 46 AT PAGE 81, WITH THE ENTIRETY OF THE FOREGOING AS FILED FOR RECORD WITH THE CLERK OF THE CIRCUIT COURT IN THE PUBLIC RECORDS OF MIAMI-DADE COUNTY, FLORIDA AND THE SAME BEING MORE PARTICULARLY DESCRIBED BY

COMMENCE AT THE POINT OF INTERSECTION OF THE CENTERLINE OF GEO. E. MERRICK ST. WITH THE CENTERLINE OF THEO. DICKINSON DRIVE AS SHOWN ON SAID PLAT OF "AMENDED PLAT PORTION OF MAIN CAMPUS SOUTHEASTERLY RIGHT OF WAY LINE OF THEO. DICKINSON DRIVE AND THE NORTHWESTERLY LINE OF TR. 5 FOR 81.71 FEET TO A POINT OF CURVATURE OF A CIRCULAR CURVE CONCAVE TO THE SOUTHEAST; THENCE "AMENDED PLAT PORTION OF MAIN CAMPUS UNIVERSITY OF MIAMI") AND THE ARC OF SAID CURVE, HAVING A RADIUS OF 1955.81 FEET AND A CENTRAL ANGLE OF 30°40'46" FOR 1047.26 FEET TO A POINT OF NON-TANGENT INTERSECTION WITH A LINE BEARING S47°36'41"E, WITH SAID POINT OF NON-TANGENT INTERSECTION BEARING N53°42'02"W FROM THE CENTER OF SAID CURVE; THENCE DEPARTING SAID EASTERLY RIGHT OF WAY LINE OF SAN AMARO DRIVE (HURRICANE DRIVE), S47°36'41"E ALONG SAID NON-RADIAL LINE FOR 110.09 FEET; THENCE S45°55'27"W FOR 47.69 FEET; THENCE S44°00'16"E FOR 55.15 FEET; THENCE N45°55'27"E FOR 186.57 FEET; THENCE S44°01'54"E FOR 237.18 FEET; THENCE N43°07'11"E FOR 183.12 FEET; THENCE S47°36'04"E FOR 68.37 FEET; THENCE S73°13'20"W FOR 92.75 FEET; THENCE S27°02'26"W FOR 104.56 FEET; THENCE S54°35'32"E FOR 321.57 FEET; THENCE N65°21'29"E FOR 106.15 FEET; THENCE CROSSING THE NORTHWESTERLY RIGHT OF WAY LINE OF SAID THEO. DICKINSON DRIVE. S60°10'58"E FOR 382.46 FEET TO THE POINT OF BEGINNING

SAID PARCEL CONTAINS 21.66 ACRES, MORE OR LESS.

APPROVED BY

Miami-Dade County Department of Regulatory and Economic Resources **Environmental Resources Management** Sewerage Facilities Only

2022 _-SEW-EXT- __00001

Date: _6/13/2022

Note: This Approval is not intended to cover structural design

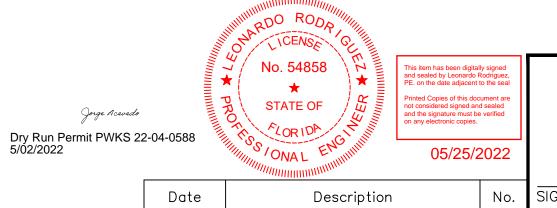
TEST REQUIRED

Permittee MUST notify RER-DERM before field test is performed for:

Note: Refer to Permit Conditions

Pressure Pump Station

PERMIT SET



Revisions

IGNATURE DATE SIGNE LEONARDO RODRIGUEZ PROFESSIONAL ENGINEER FL Lic. No. 54858

LANGAN **UNIVERSITY OF MIAMI** Environmental Services, Inc. 15150 NW 79th Court, Suite 200 Miami Lakes, FL 33016

T: 786.264.7200 F: 786.264.7201 www.langan.com

FL CERTIFICATE OF AUTHORIZATION No. 00006601/LB8172/LB8198

CENTENNIAL VILLAGE PHASE IIB SANITARY SEWER EXTENSION

COVER SHEET

300230601 **APRIL 19, 2022** Drawn By Checked By

Date: 4/19/2022 Time: 11:15 User: ahenderson Style Table: Langan.stb Layout: PHASE II Document Code: 300230601-0102-GI001-0201

G1001

GENERAL NOTES AND SPECIFICATIONS

(NOT PART OF M-DWASD NOTES NOR APPROVAL)

I. APPLICABLE CODES:

- A. ALL CONSTRUCTION AND MATERIALS SHALL CONFORM TO THE STANDARDS AND SPECIFICATIONS OF THE CITY OF CORAL GABLES DEVELOPMENT SERVICES DEPARTMENT, CITY OF CORAL GABLES PUBLIC WORKS DEPARTMENT, MIAMI-DADE COUNTY PUBLIC WORKS DEPARTMENT. MIAMI-DADE WATER AND SEWER DEPARTMENT, AND ALL OTHER APPLICABLE LOCAL, STATE AND NATIONAL CODES.
- B. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ENSURING THAT ALL CONSTRUCTION SHALL BE DONE IN A SAFE MANNER AND IN STRICT COMPLIANCE WITH ALL THE REQUIREMENTS OF THE FEDERAL OCCUPATIONAL SAFETY AND HEALTH ACT OF 1970 OR LATEST EDITION, AND ALL STATE AND LOCAL SAFETY AND HEALTH REGULATIONS.
- C. ALL CONSTRUCTION MATERIALS AND LABOR ASSOCIATED WITH THIS PROJECT SHALL CONFORM TO THE UNIVERSITY OF MIAMI BUILDING STANDARDS 2017 EDITION OR LATEST EDITION.
- D. CONTRACTOR SHALL BE RESPONSIBLE FOR CREATING A 'MAINTENANCE OF OPERATIONS' PLAN FOR APPROVAL BY UM'S PROJECT MANAGER PRIOR TO THE EXPENSE. COMMENCEMENT OF ANY DEMOLITION OR CONSTRUCTION ACTIVITIES.
- E. ALL EXCAVATIONS TO COMPLY WITH THE TRENCH SAFETY ACT.
- F. EXISTING TOPOGRAPHIC INFORMATION SHOWN ON THESE DRAWINGS ARE BASED ON THE TOPOGRAPHIC SURVEYS PREPARED BY ATKINS TITLED "C-751 CENTENNIAL VILLAGE UNIVERSITY OF MIAMI" DATED 02/26/2019 AND "BUILDING 34 SITE" DATED 05/13/2020.
- G. ALL ELEVATIONS SHOWN ON THESE DRAWINGS ARE BASED ON THE NATIONAL GEODETIC VERTICAL DATUM OF 1929 (NGVD) UNLESS OTHERWISE NOTED.
- H. ALL EXISTING UTILITY INFORMATION REFERENCED FROM AUTOCAD FILE RECEIVED FROM NSIDE ™ ON 06/28/2018 & AS-BUILT INFORMATION PROVIDED BY THE UNIVERSITY.

II. PRECONSTRUCTION RESPONSIBILITIES:

- A. THE INFORMATION PROVIDED IN THESE PLANS IS TO ASSIST THE CONTRACTOR IN ASSESSING THE NATURE AND EXTENT OF THE CONDITIONS WHICH MAY BE ENCOUNTERED DURING THE COURSE OF THE WORK. ALL CONTRACTORS ARE DIRECTED, PRIOR TO BIDDING, TO CONDUCT ANY INVESTIGATIONS THEY DEEM NECESSARY TO ARRIVE AT THEIR OWN CONCLUSIONS REGARDING THE ACTUAL CONDITIONS THAT WILL BE ENCOUNTERED AND UPON WHICH THEIR BIDS WILL BE
- B. UPON THE RECEIPT OF THE "NOTICE TO PROCEED", THE CONTRACTOR SHALL CONTACT THE ENGINEER OF RECORD AND ARRANGE A PRECONSTRUCTION VII. EARTHWORK AND COMPACTION: CONFERENCE TO INCLUDE ALL INVOLVED GOVERNMENTAL AGENCIES, UTILITY OWNERS, THE OWNER AND THE ENGINEER OF RECORD.
- C. THE CONTRACTOR SHALL CONTACT "SUNSHINE ONE-CALL OF FLORIDA" BY CALLING 1-800-432-4770 AT LEAST 48 HOURS PRIOR TO COMMENCING ANY EXCAVATION OR CONSTRUCTION IN ORDER TO PROVIDE FOR THE LOCATION OF EXISTING UNDERGROUND UTILITIES ON-SITE AND OFF-SITE.
- RELOCATION AND TEMPORARY SUPPORT OF UTILITY FEATURES, ETC. AS NECESSARY TO COMPLETE THE WORK, IF APPLICABLE. E. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO LOCATE AND PROTECT ANY
- AND ALL EXISTING UTILITIES ON THIS PROJECT. F. THE CONTRACTOR SHALL SECURE ALL UTILITY EASEMENTS (IF REQUIRED) TO
- BE SECURED PRIOR TO CONSTRUCTION. G. LOCATIONS, ELEVATIONS, AND DIMENSIONS OF EXISTING UTILITIES, STRUCTURES AND OTHER FEATURES AS SHOWN ON THE DRAWINGS WERE OBTAINED FROM
- THE BEST INFORMATION AVAILABLE AT THE TIME PLANS WERE PREPARED BUT DO NOT PURPORT TO BE ABSOLUTELY CORRECT. THERE MAY BE OTHER IMPROVEMENTS, UTILITIES, ETC., WITHIN THE PROJECT AREA WHICH WERE INSTALLED AND CONSTRUCTED AFTER THE PREPARATION OF THESE PLANS. THE ANY FACILITIES NOT SHOWN. THE CONTRACTOR SHALL VERIFY, PRIOR TO CONSTRUCTION, THE LOCATIONS, ELEVATIONS AND DIMENSIONS OF ALL EXISTING PLANS OR NOT) AFFECTING THE WORK.
- H. IF, UPON EXCAVATION, EXISTING CONDITIONS ARE FOUND TO BE IN CONFLICT WITH THE PROPOSED CONSTRUCTION, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER OF RECORD SO THAT APPROPRIATE MEASURES CAN BE TAKEN TO RESOLVE THE PROBLEM.
- I. ALL ROAD CROSSINGS ARE OPEN CUT UNLESS OTHERWISE NOTED ON THE DRAWINGS.

III. INSPECTION AND TESTING: A. THE CONTRACTOR SHALL NOTIFY THE ENGINEER OF RECORD AS WELL AS ANY

- OTHER GOVERNMENTAL AGENCIES HAVING JURISDICTION AT LEAST 48 HOURS PRIOR TO BEGINNING CONSTRUCTION.
- B. THE CONTRACTOR SHALL GIVE THE ENGINEER OF RECORD AT LEAST 48 HOURS ADVANCE NOTICE AND THE ENGINEER OF RECORD MUST BE PRESENT TO WITNESS. THE FOLLOWING: 1. PRESSURE TESTING OF THE WATER DISTRIBUTION SYSTEM.
- 3. FINAL INSPECTION OF THE WATER, SEWER, PAVING, GRADING AND DRAINAGE.

2. EXFILTRATION TEST OF THE SANITARY SEWER SYSTEM.

C. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO CONTACT ALL APPLICABLE REGULATORY AGENCIES FOR INSPECTION REQUIREMENTS.

IV. SHOP DRAWINGS:

A. PRIOR TO THEIR CONSTRUCTION OR INSTALLATION, SHOP DRAWINGS SHALL BE SUBMITTED TO AND APPROVED BY THE ENGINEER OF RECORD FOR TI FOLLOWING ITEMS: WATER MAIN FITTINGS, VALVES, PIPES, CATCH BASINS, STORM IX. PAVING: MANHOLES AND ALL OTHER DRAINAGE STRUCTURES, DRAINAGE PIPES, BALLAST ROCK, EXFILTRATION TRENCH FILTER FABRIC, AND TRAFFIC PAINT. IN ADDITION. A. GENERAL: SOME CITIES, COUNTIES, STATE AND/OR NATIONAL REGULATORY AGENCIES REQUIRE THEIR OWN INDIVIDUAL REVIEW AND APPROVAL. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO OBTAIN ALL OTHER AGENCY SHOP DRAWING APPROVALS IF REQUIRED.

V. TEMPORARY FACILITIES:

- A. TEMPORARY FACILITIES: 1. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO ARRANGE FOR OR SUPPLY TEMPORARY WATER SERVICE, SANITARY FACILITIES, AND ELECTRICITY,
- 2. THE CONTRACTOR SHALL MAINTAIN AT LEAST ONE ACCESS ENTRANCE TO COMMERCIAL PROPERTIES AT ALL TIMES, IF APPLICABLE.
- 3. THE CONTRACTOR SHALL MAINTAIN A CLEAR PATH FOR ALL SURFACE WATER DRAINAGE STRUCTURES AND DITCHES DURING ALL PHASES OF CONSTRUCTION, IF APPLICABLE.
- B. TRAFFIC REGULATION:
- 1. THE CONTRACTOR SHALL PROVIDE ALL WARNING SIGNALS, SIGNS, LIGHTS AND FLAGPERSONS AS NECESSARY FOR THE MAINTENANCE OF TRAFFIC WITHIN PUBLIC RIGHT-OF-WAYS IN ACCORDANCE WITH THE M.U.T.C.D. AND MIAMI-DADE COUNTY PUBLIC WORKS DEPARTMENT.
- 2. 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
- 3. NO TRENCHES OR HOLES NEAR WALKWAYS, IN ROADWAYS OR THEIR SHOULDERS ARE TO BE LEFT OPEN DURING NIGHTTIME HOURS WITHOUT EXPRESS PERMISSION FROM MIAMI-DADE COUNTY PUBLIC WORKS DEPARTMENT

VI. PROJECT CLOSE-OUT:

Sunshine

Call 811 or www.sunshine811.com two full

business days before digging to have utilities

located and marked.

Check positive response codes before you dig!

A. CLEANING UP: 1. DURING CONSTRUCTION, THE PROJECT SITE AND ALL ADJACENT AREAS SHALL BE MAINTAINED IN A NEAT AND CLEAN MANNER, AND 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. 2. THE CONTRACTOR SHALL RESTORE OR REPLACE, WHEN AND AS DIRECTED,

- ANY PUBLIC OR PRIVATE PROPERTY DAMAGED BY HIS WORK, EQUIPMENT X. TESTING: AND/OR EMPLOYEES TO A CONDITION AT LEAST EQUAL TO THAT EXISTING
- IMMEDIATELY PRIOR TO THE BEGINNING OF OPERATIONS. THE CONTRACTOR SHALL REPLACE ALL PAVING, STABILIZED EARTH, CURBS, DRIVEWAYS, SIDEWALKS, FENCES, MAILBOXES, SIGNS AND ANY OTHER IMPROVEMENTS REMOVED DURING CONSTRUCTION WITH THE SAME TYPE OF MATERIAL AND TO THE CONDITION WHICH EXISTED PRIOR TO THE BEGINNING XI. WATER DISTRIBUTION SYSTEM:
- WHERE MATERIAL OR DEBRIS HAVE WASHED OR FLOWED INTO, OR HAVE A. 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 AND SATISFACTORILY DISPOSED OF DURING THE PROGRESS OF THE WORK, AND THE AREA KEPT IN A CLEAN AND NEAT CONDITION.
- B. ALL PROPERTY MONUMENTS OR PERMANENT REFERENCES, REMOVED OR DESTROYED BY THE CONTRACTOR DURING CONSTRUCTION SHALL BE RESTORED BY A STATE OF FLORIDA REGISTERED LAND SURVEYOR AT THE CONTRACTOR'S
- C. PROJECT RECORD DOCUMENTS:

OF OPERATIONS.

- 1. DURING THE DAILY PROGRESS OF THE JOB. THE CONTRACTOR SHALL RECORD ON HIS SET OF CONSTRUCTION DRAWINGS THE EXACT LOCATION. LENGTH AND ELEVATION OF ANY FACILITY NOT BUILT EXACTLY ACCORDING TO
- UPON COMPLETION OF DRAINAGE IMPROVEMENTS AND LIMEROCK BASE XII. SANITARY SEWER COLLECTION SYSTEM: CONSTRUCTION (AND BEFORE PLACING ASPHALT PAVEMENT OR CONCRETE PAVEMENT) THE CONTRACTOR SHALL FURNISH THE ENGINEER OF RECORD A. GENERAL "AS-BUILT" PLANS FOR THESE IMPROVEMENTS. SHOWING THE LOCATIONS AND PERTINENT GRADES OF ALL DRAINAGE INSTALLATIONS AND THE FINISHED ROCK GRADES OF THE ROAD CROWN AND EDGES OF PAVEMENT AT 25 FEET
- INTERVALS. UPON COMPLETION OF CONSTRUCTION, AND PRIOR TO FINAL PAYMENT, THI CONTRACTOR SHALL SUBMIT TO THE ENGINEER OF RECORD ONE COMPLETE SET OF ALL "AS-BUILT" CONTRACT DRAWINGS. THESE DRAWINGS SHALL BE MARKED TO SHOW "AS-BUILT" CONSTRUCTION CHANGES AND DIMENSIONS, LOCATIONS AND ELEVATIONS OF ALL IMPROVEMENTS.
- "AS-BUILT" INFORMATION ON WATER MAINS AND GRAVITY SEWERS MUST BE PROVIDED IN ACCORDANCE WITH THE MIAMI-DADE WATER AND SEWER DEPARTMENT STANDARD AS-BUILT REQUIREMENTS. 5. ALL "AS-BUILT" INFORMATION SHALL BE CERTIFIED BY A FLORIDA REGISTERED LAND SURVEYOR.

A. EARTHWORK AND COMPACTION SHALL BE PERFORMED IN ACCORDANCE WITH SECTION C3, "REQUIREMENTS FOR FILLING LAND IN UNINCORPORATED DADE COUNTY", OF THE MIAMI-DADE COUNTY PUBLIC WORKS MANUAL AND THE GEOTECHNICAL ENGINEER'S RECOMMENDATIONS.

VIII. STORM DRAINAGE:

- D. THE CONTRACTOR SHALL COORDINATE WITH UTILITY COMPANIES TO ARRANGE FOR A. GENERAL 1. CATCH BASIN GRATES AND RIM ELEVATIONS AS SHOWN ON PLANS SHALL BE ADJUSTED TO CONFORM TO NEW OR EXISTING GRADES.
 - 2. DISTANCES AND LENGTHS SHOWN ON PLANS AND PROFILE DRAWINGS ARE REFERENCED TO THE CENTER OF STRUCTURES. ALL STORM DRAINAGE MATERIALS AND INSTALLATION SHALL CONFORM TO THE APPLICABLE CITY OF CORAL GABLES PUBLIC WORKS DEPARTMENT
 - STANDARD DETAILS AND MIAMI-DADE COUNTY PUBLIC WORKS DEPARTMENT SPECIFICATIONS INCLUDING, BUT NOT LIMITED TO, THE FOLLOWING: EXCAVATION, TRENCHING AND BACKFILLING FOR PIPE STRUCTURES
- DRAINAGE PIPE ENGINEER ASSUMES NO RESPONSIBILITY FOR THE FACILITIES SHOWN OR FOR B. ALL EXFILTRATION TRENCH SHALL BE AS PER STANDARD DETAIL SD 1.1 OF THI MIAMI-DADE COUNTY PUBLIC WORKS MANUAL, AND IN ACCORDANCE WITH
- REQUIREMENTS SPECIFIED IN THE CITY OF CORAL GABLES PUBLIC WORKS FACILITIES, STRUCTURES AND OTHER FEATURES (WHETHER SHOWN ON THE DEPARTMENT STANDARD DETAILS, DETAILS 1-2 AND 1-2A, "FRENCH DRAINS." EXFILTRATION TRENCH SHALL BE INSTALLED AT THE WIDTH, DEPTH AND ELEVATION SHOWN ON THE APPROVED CROSS SECTION DEPICTED ON THI
 - PLANS. ANY CONFLICT WITH EXISTING OR PROPOSED UTILITIES SHAL IMMEDIATELY BE BROUGHT TO THE ATTENTION OF THE ENGINEER. ANY IMPERMEABLE MATERIAL ENCOUNTERED IN THE EXCAVATION FOR THE EXFILTRATION TRENCH SHALL BE REMOVED AS DIRECTED BY THE ENGINEER. D. ALL DRAINAGE CATCH BASINS AND STRUCTURES SHALL BE PRECAST CONCRETE
 - AS MANUFACTURED BY U.S. PRECAST CORPORATION OR APPROVED EQUAL.
 - E. THE TRENCH FILTER FABRIC SHALL BE SELECTED FROM THE LIST OF MANUFACTURERS AND FABRIC TYPES APPROVED BY THE MIAMI DADE COUNTY PUBLIC WORKS DEPARTMENT AND UNIVERSITY OF MIAMI. IT SHALL BE USED TO WRAP ALL SIDES AND TOP OF THE EXFILTRATION TRENCH. THE TOP SECTION OF THE MATERIAL SHALL BE LAPPED A MINIMUM OF 12 INCHES AND THE CONTRACTOR SHALL TAKE EXTREME CARE IN BACKFILLING TO AVOID BUNCHING
 - PERFORATED PIPE SHALL TERMINATE 4'-0" FROM THE DRAINAGE STRUCTURE. THE REMAINING 4'-0" SHALL BE NON-PERFORATED PIPE.
 - G. PROVIDE A MINIMUM PROTECTIVE COVER OF 24 INCHES OVER STORM SEWER AND AVOID UNNECESSARY CROSSING BY HEAVY CONSTRUCTION VEHICLES DURING
 - H. THE CONTRACTOR SHALL PROTECT EXISTING AND COMPLETED DRAINAGE STRUCTURES AND EXFILTRATION SYSTEM FROM CONTAMINATION OF SILT AND CONSTRUCTION DEBRIS. PLACE PLYWOOD ON OR FILTER FABRIC BETWEEN THE FRAME AND INLET GRATE UNTIL CONSTRUCTION OPERATIONS ARE FINISHED. (SEE STORMWATER POLLUTION PREVENTION PLAN)

- 1. ALL UNDERGROUND UTILITIES SHALL BE COMPLETED PRIOR TO CONSTRUCTION OF LIMEROCK BASE.
- 2. ALL EXISTING PAVEMENT, CUT OR DAMAGED BY CONSTRUCTION SHALL BE PROPERLY RESTORED AT THE CONTRACTOR'S EXPENSE.
- 3. ALL ROAD CROSSINGS ARE OPEN CUT UNLESS OTHERWISE NOTED ON THE
- 4. WHERE ANY PROPOSED PAVEMENT IS TO BE CONNECTED TO EXISTING PAVEMENT, THE EXISTING EDGE OF PAVEMENT SHALL BE SAW CUT. 5. PAVEMENT REPAIRS SHALL BE AS PER STANDARD DETAIL R 21.1 OF THE
- MIAMI- DADE COUNTY PUBLIC WORKS MANUAL. MATERIALS AND INSTALLATION:
- 1. ALL WORKS CONFORM TO THE APPLICABLE CITY OF CORAL GABLES PUBLIC WORKS DEPARTMENT STANDARD DETAILS AND MIAMI-DADE COUNTY PUBLIC WORKS DEPARTMENT SPECIFICATIONS INCLUDING, BUT NOT LIMITED TO THE FOLLOWING:
 - <u>SECTION</u> CLEARING AND GRUBBING EXCAVATION AND EMBANKMENT
 - STABILIZING
 - RESTORATION OF TRENCHES
 - LIMEROCK BASE 100 PRIME AND TACK COATS TYPE S-1 ASPHALTIC CONCRETE SURFACE COURSE
- 133 SIDEWALK CURB AND GUTTER CONSTRUCTION STREET NAME SIGNS SHALL BE ERECTED IN ACCORDANCE WITH CITY OF CORAL GABLES PUBLIC WORKS DEPARTMENT REQUIREMENTS AND
- 3. SUBGRADE FOR ROADWAY SHALL BE COMPACTED TO A MINIMUM OF 95% OF
- THE MAXIMUM DENSITY (AASHTO T-180-74), LBR 40. 4. BASE COURSE MATERIAL FOR PAVED AREAS SHALL BE A MINIMUM THICKNESS OF 8" PLACED ON A SINGLE LAYER FOR STREETS.
- 5. BASE COURSE SHALL BE COMPACTED TO 98% OF THE MAXIMUM DENSITY AS PER AASHTO T-180-74, LBR 100.

DENSITY TESTS SHALL BE TAKEN BY AN INDEPENDENT TESTING LABORATORY, CERTIFIED BY THE STATE OF FLORIDA. RESULTS OF DENSITY TESTS SHALL BE SIGNED AND SEALED BY AN ENGINEER REGISTERED IN THE STATE OF FLORIDA AND PROVIDED TO THE ENGINEER OF RECORD FOR REVIEW.

- 1. ALL MATERIALS, INSTALLATION AND TESTING UNDER THIS PROJECT SHALL BE IN STRICT ACCORDANCE WITH THE REQUIREMENTS OF THE MIAMI-DADE WATER AND SEWER DEPARTMENT AND SHALL CONFORM TO THE STANDARDS AND SPECIFICATIONS AVAILABLE AND ON FILE WITH THE DEPARTMENT. ANY EXISTING PUBLIC WATER SERVICE WITHIN THE PROPERTY IN CONFLICT
- ASSOCIATED EASEMENT IS CLOSED AND RELEASED AS APPLICABLE. ALL PROP WATER & FORCE MAINS AND FITTINGS TO BE RESTRAINED PER

WITH THE PROPOSED DEVELOPMENT MUST BE REMOVED AFTER ANY

B. MATERIALS INSTALLATION AND TESTING: 1. FOLLOW MDWASD SPECIFICATIONS FOR WATER MAINS

2. IN ADDITION SEE MDWASD NOTES ON THIS SHEET.

- 1. ALL MATERIALS AND LABOR UNDER THIS PROJECT SHALL BE IN STRICT ACCORDANCE WITH THE REQUIREMENTS OF THE CITY OF CORAL GABLES PUBLIC WORKS DEPARTMENTDEPARTMENT AND SHALL CONFORM TO THE STANDARDS AND SPECIFICATIONS AVAILABLE AND ON FILE WITH THE
- MANHOLE RIM ELEVATIONS AS SHOWN ON PLANS SHALL BE ADJUSTED TO CONFORM TO NEW OR EXISTING GRADES. DISTANCES AND LENGTHS SHOWN ON PLANS AND PROFILE DRAWINGS ARE REFERENCED TO THE CENTER OF STRUCTURES.
- WITH THE PROPOSED DEVELOPMENT MUST BE REMOVED AFTER ANY ASSOCIATED EASEMENT IS CLOSED AND RELEASED AS APPLICABLE. ALL PROPOSED SANITARY SEWER FORCE MAINS AND FITTINGS SHALL BE

ANY EXISTING PUBLIC SEWER SERVICE WITHIN THE PROPERTY IN CONFLICT

ANY EXISTING PUBLIC SEWER SERVICE WITHIN THE PROPERTY IN CONFLICT WITH THE PROPOSED DEVELOPMENT MUST BE REMOVED AFTER ANY

RESTRAINED PER MIAMI-DADE WATER AND SEWER DEPARTMENT STANDARD

ALL SEWER LATERALS MUST COMPLY WITH CITY OF CORAL GABLES PUBLIC WORKS DEPARTMENT STANDARD DETAILS.

ASSOCIATED EASEMENT IS CLOSED AND RELEASED AS APPLICABLE.

- 8. FOR ALL CONNECTIONS TO VCP, THE CONTRACTOR SHALL TELEVISE THE VCP PIPE BEFORE AND AFTER INSTALLATION.
- MATERIALS, INSTALLATION AND TESTING:
- 1. FOLLOW MIAMI-DADE WATER AND SEWER DEPARTMENT SPECIFICATIONS FOR GRAVITY SANITARY SEWER SYSTEMS AND FORCE MAINS (AS APPLICABLE), AND CITY OF CORAL GABLES PUBLIC WORKS DEPARTMENT REQUIREMENTS.

HEALTH DEPARTMENT **NOTES**

(NOT PART OF M-DWASD NOTES NOR APPROVAL)

WATER MAIN HORIZONTAL SEPARATIONS

- SEPARATIONS SHALL BE MEASURED OUTSIDE EDGE TO OUTSIDE EDGE BETWEEN WATER MAINS AND, STORM SEWERS, STORMWATER, FORCE MAINS, OR RECLAIMED
- WATER LINES, SHALL BE 3 FT MINIMUM. SEPARATIONS BETWEEN WATER MAINS AND VACUUM TYPE SEWER SHALL BE PREFERABLY 10 FT AND AT LEAST 3 FT MINIMUM. SEPARATIONS BETWEEN WATER MAINS AND GRAVITY OR PRESSURE SANITARY SEWERS, WASTEWATER FORCE MAINS OR RECLAIMED WATER SHALL BE
- PREFERABLY 10 FT AND AT LEAST 6 FT. MAY BE REDUCED TO 3 FT WHERE BOTTOM OF WATER MAINS IS AT LEAST 6 INCHES ABOVE TOP OF SEWER. SEPARATIONS BETWEEN WATER MAINS AND ANY PART OF ON-SITE SEWER

TREATMENT OR DISPOSAL SYSTEM SHALL BE 10 FT MINIMUM.

WATER MAIN VERTICAL SEPARATIONS

- SEPARATIONS BETWEEN WATER MAINS AND GRAVITY SEWER, VACUUM TYPE SEWER. OR STORM SEWERS TO BE PREFERABLY 12 INCHES, OR AT LEAST 6 INCHES IF ABOVE OR AT LEAST 12 INCHES IF BELOW.* SEPARATIONS BETWEEN WATER MAINS AND PRESSURE SANITARY SEWER, WASTEWATER OR STORMWATER FORCE MAIN, OR RECLAIMED WATER, SHALL BE AT LEAST 12 INCHES ABOVE OR BELOW.
- *NOTE: CENTER 1-FULL LENGTH OF WATER MAIN PIPE AT CROSSINGS; ALTERNATIVELY ARRANGE PIPES SO JOINTS ARE AT LEAST 3 FEET FROM JOINTS IN VACUUM, STORM OR STORM FORCE MAINS. AT LEAST 6 FEET FROM JOINTS IN GRAVITY OR PRESSURE SEWERS, WASTEWATER FORCE MAINS OR RECLAIMED WATER.

GENERAL SITE NOTES:

(NOT PART OF M-DWASD NOTES NOR APPROVAL)

- 1. THESE PLANS REPRESENT THE OVERALL SITE WORK IMPROVEMENTS REQUIRED FOR PROJECT CONSTRUCTION. THE CONTRACTOR SHALL FURNISH, INSTALL, TEST AND COMPLETE ALL WORK TO THE SATISFACTION OF THE ENGINEER AND OWNER IN ACCORDANCE WITH THE CONTRACT DOCUMENTS. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR MEANS AND METHODS OF CONSTRUCTION: AS SUCH. THESE PLANS DO NOT COMPLETELY REPRESENT, NOR ARE THEY INTENDED TO REPRESENT, ALL SPECIFIC INSTRUCTIONS REQUIRED FOR SITE WORK CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE TO CONSTRUCT ALL IMPROVEMENTS DEPICTED ON THESE PLANS IN ACCORDANCE WITH ALL APPLICABLE RULES, REGULATIONS AND LAWS IN EFFECT A
- 2. ALL EXISTING UTILITY INFORMATION REFERENCED FROM AUTOCAD FILE RECEIVED FROM NSIDE™ ON 6/28/2018, AS-BUILT INFORMATION PROVIDED BY THE UNIVERSITY & SUE DESIGNATIONS PREPARED BY LONGITUDE SURVEYORS DATED 08/14/2019.
- PREPARED BY ATKINS RECEIVED ON 2/26/2019. 4. EXISTING BOUNDARY INFORMATION REFERENCED FROM BOUNDARY SURVEY PREPARED BY ATKINS DATED 08/02/2018.
- 5. <u>ALL ELEVATIONS SHOWN ON THE CONSTRUCTION DRAWINGS ARE BASED ON THE NATIONAL GEODETICAL VERTICAL DATUM OF 1929</u>, (N.G.V.D), UNLESS OTHERWISE NOTED. 6. THE CONTRACTOR SHALL ACCEPT THE SITE AS IS. THE CONTRACTOR SHALL ASSESS CONDITIONS, AND THE KIND, QUALITY AND

3. EXISTING TOPOGRAPHIC AND CADASTRAL INFORMATION SHOWN ON THESE DRAWINGS ARE BASED ON THE TOPOGRAPHIC SURVEY

- QUANTITY OF WORK REQUIRED. THE OWNER MAKES NO GUARANTEE IN REGARD TO THE ACCURACY OF ANY AVAILABLE INFORMATION WHICH WAS OBTAINED DURING INVESTIGATIONS. THE CONTRACTOR SHALL MAKE A THOROUGH SITE INSPECTION IN ORDER TO FIELD CHECK EXISTING SITE CONDITIONS, CORRELATE CONDITIONS WITH THE DRAWINGS AND RESOLVE ANY POSSIBLE CONSTRUCTION CONFLICTS WITH THE OWNER AND ENGINEER PRIOR TO COMMENCEMENT OF WORK. THE CONTRACTOR SHALL MAKE ADDITIONAL TOPOGRAPHIC SURVEYS HE DEEMS NECESSARY, PROVIDED THEY ARE COORDINATED WITH THE OWNER, ANY CONDITIONS DETERMINED BY THE CONTRACTOR THAT DIFFER FROM THE INFORMATION SHOWN ON THE DRAWINGS THAT ARE NOT BROUGHT TO THE ATTENTION OF THE OWNER AND ENGINEER PRIOR TO THE START OF WORK SHALL NOT BE CONSIDERED GROUNDS FOR ADDITIONAL PAYMENT OR CHANGES TO THE CONTRACT DURATION, OR ANY OTHER CLAIMS AGAINST THE OWNER OR OWNER'S ENGINEER.
- 7. THE CONTRACTOR SHALL, WHEN THEY DEEM NECESSARY, PROVIDE WRITTEN REQUESTS FOR INTERPRETATION (RFIS) TO THE OWNER AND ENGINEER PRIOR TO THE CONSTRUCTION OF ANY SPECIFIC SITE WORK ITEM. THE (REI) SHALL BE IN A FORM ACCEPTABLE TO OWNER AND ENGINEER AND SHALL ALLOW FOR A MINIMUM OF TWO WORK DAYS OR ADDITIONAL REASONABLE TIME FOR A WRITTEN REPLY. RFIS SHALL BE NUMBERED CONSECUTIVELY BY DATE SUBMITTED. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR SITE WORK ITEMS CONSTRUCTED DIFFERENTLY THAN INTENDED OR AS DEPICTED ON THE PLANS.
- 8. INFORMATION RELATED TO ELEVATIONS AND PROPOSED UTILITIES (SUCH AS ROADWAY GRADES, INVERT ELEVATIONS, RIM ELEVATIONS, GRATE ELEVATIONS, BUILDING FINISHED FLOOR ELEVATIONS, ETC.) MAY BE FOUND IN MORE THAN ONE LOCATION IN THE CONTRACT DOCUMENTS. THE CONTRACTOR SHALL SUFFICIENTLY REVIEW ALL PLANS, PROFILES AND ANY OTHER INFORMATION IN THE CONTRACT DOCUMENTS FOR CONSISTENCY PRIOR TO CONSTRUCTION, ANY INCONSISTENCIES OR DISCREPANCIES THAT ARE FOUND BY THE CONTRACTOR OR HIS ASSIGNS SHALL BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE OWNER AND ENGINEER IN WRITING, IN THE FORMAT OF AN RFI PRIOR TO CONSTRUCTION.
- 9. THERE ARE ADDITIONAL NOTES. SPECIFICATIONS AND REQUIREMENTS CONTAINED THROUGHOUT THE PLAN SET AS WELL AS REFERENCES TO SPECIFICATIONS FROM APPLICABLE GOVERNING AUTHORITIES AND INDUSTRY STANDARDS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN, REVIEW AND ADHERE TO ALL THESE DOCUMENTS 10.CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR ALL DRAINAGE AND UTILITY STRUCTURES AND MANUFACTURED PRODUCTS TO
- THE ENGINEER OF RECORD FOR REVIEW AND APPROVAL PRIOR TO COMMENCING WITH CONSTRUCTION. 11. CONTRACTOR IS SOLELY RESPONSIBLE FOR ALL MAINTENANCE OF TRAFFIC MEASURES (INCLUDING DESIGN AND PERMITTING) AS REQUIRED BY THE LOCAL, COUNTY, OR STATE AGENCY HAVING JURISDICTION.
- 12. THE CONTRACTOR IS REQUIRED TO KEEP DETAILED RECORDS OF THE CONSTRUCTION COMPLETED. SPECIFICALLY, ALL UNDERGROUND STRUCTURES, DRAINAGE, WATER, SANITARY, GAS, ELECTRIC, COMMUNICATIONS PIPING, CONDUIT OR APPURTENANCES AND ACCESSORIES AND ALL ABOVE GROUND FEATURES INCLUDING. BUT NOT LIMITED TO, FIRE HYDRANTS, WATER VALVES, DRAINAGE AND SEWER CLEANOUTS. LIGHT POLES AND SIGNS SHALL BE RECORDED BY A PROFESSIONAL LAND SURVEYOR REGISTERED IN TH STATE THAT THE WORK IS PERFORMED. ELEVATIONS OF TOP OF WATER PIPING SHALL BE RECORDED AT ALL BENDS, TEES, AND AT ALL STORM DRAINAGE AND SANITARY SEWER CROSSINGS. SANITARY SEWER TOP OR BOTTOM OF PIPE ELEVATIONS SHALL B RECORDED AT ALL CROSSINGS WITH WATER AND STORM DRAINAGE PIPING. FINISHED GRADE ELEVATIONS AT ALL WATER VALVES FIRE HYDRANTS, SANITARY MANHOLES, DRAINAGE STRUCTURES AND CLEANOUT LOCATIONS WILL BE RECORDED. CURB AND PAVEMENT FINISHED GRADE FLEVATIONS AT ALL HIGH AN LOW POINTS, ALONG SWALES, CENTERLINES OF ROADS OR DRIVE AISLE AND IN PARKING AREAS. SHALL BE RECORDED. AS-BUILT SURVEYS OF THESE ITEMS SHALL BE PROVIDED TO THE ENGINEER (RECORD WITHIN 30 DAYS OF CONSTRUCTION COMPLETION AND PRIOR TO FINAL PAYMENT BY THE OWNER. THE ENGINEER RECORD RESERVES THE RIGHT TO REVIEW THE AS-BUILT SURVEYS AND REQUIRE THE COMPLETED WORK CORRECTED, WHER DEFICIENCIES WITH RESPECT TO THE CONSTRUCTION DRAWINGS AND THE LOCAL, COUNTY AND STATE STANDARDS ARE NO
- 13.CONTRACTOR IS SPECIFICALLY CAUTIONED THAT ALL CONSTRUCTION STAKEOUT FOR THIS PROJECT MUST BE COMPLETED FROM TH SITE SPECIFIC SURVEY CONTROL (HORIZONTAL AND VERTICAL) UPON WHICH THE DESIGN IS BASED. THE CONTRACTOR SHOULD NOT RELY ON OR RE-ESTABLISH SURVEY CONTROL BY GPS OR OTHER METHODS FOR USE IN CONSTRUCTION STAKEOUT OR ANY OTHEF PURPOSE FOR THIS PROJECT. ANY DISCREPANCIES BETWEEN THE EXISTING HORIZONTAL OR VERTICAL DATA SHOWN ON THESE DRAWINGS AND THAT ENCOUNTERED IN THE FIELD MUST BE REPORTED TO THE DESIGN TEAM PRIOR TO CONSTRUCTION FOR RESOLUTION.

REGULATORY AND ECONOMIC RESOURCES RER NOTES ON WATER-SEWER INSTALLATION

(NOT PART OF M-DWASD NOTES NOR APPROVAL)

A HORIZONTAL DISTANCE OF AT LEAST 6 FEET, AND PREFERABLY 10 FEET (OUTSIDE TO OUTSIDE), SHALL BE MAINTAINED BETWEEN GRAVITY OR PRESSURE SEWER PIPES AND WATER PIPES. THE MINIMUM HORIZONTAL SEPARATION CAN BE REDUCED TO 3 FEET FOR VACUUM-TYPE SEWERS OR FOR GRAVITY SEWERS WHERE THE BOTTOM OF THE SEWER PIPE IS AT LEAST 6 INCHES BELOW THE BOTTOM OF THE WATER PIPE. WHEN THE ABOVE SPECIFIED HORIZONTAL DISTANCE CRITERIA CANNOT BE MET DUE TO AN EXISTING UNDERGROUND FACILITY CONFLICT, SMALLER SEPARATIONS ARE ALLOWED IF: a. THE SEWER PIPES ARE DESIGNED AND CONSTRUCTED EQUAL TO THE WATER PIPE AND PRESSURE TESTED AT 150 PSI. b. THE SEWER IS ENCASED IN A WATERTIGHT CARRIER PIPE OR CONCRETE. THE TOP OF THE SEWER IS AT LEAST 18 INCHES BELOW THE BOTTOM OF THE WATER PIPE. A VERTICAL DISTANCE OF AT LEAST 12 INCHES (OUTSIDE TO OUTSIDE) SHALL

BE MAINTAINED BETWEEN ANY WATER AND SEWER MAINS WITH SEWER PIPES PREFERABLY CROSSING UNDER WATER MAINS. THE MINIMUM VERTICAL SEPARATION CAN BE REDUCED TO 6 INCHES FOR VACUUM-TYPE SEWERS OR FOR GRAVITY SEWERS WHERE THE SEWER PIPE IS BELOW THE WATER MAIN. THE CROSSING SHALL BE ARRANGED SO THAT ALL WATER MAIN JOINTS ARE AT LEAST 6 FEET FORMAL JOINTS IN GRAVITY AND PRESSURE SEWER PIPES. THE DISTANCE CAN BE REDUCED TO 3 FEET FOR VACUUM-TYPE SEWERS. WHEN THE ABOVE SPECIFIED VERTICAL DISTANCE CRITERIA CANNOT BE MET DUE TO AN EXISTING UNDERGROUND FACILITY CONFLICT, SMALLER SEPARATIONS ARE ALLOWED IF: a.THE SEWER PIPES ARE DESIGNED AND CONSTRUCTED EQUAL TO THE WATER PIPE AND PRESSURE TESTED AT 150 PSI. b.THE SEWER IS ENCASED IN A WATERTIGHT CARRIER PIPE OR CONCRETE. AIR RELEASE VALVES SHALL BE PROVIDED AT HIGH POINTS OF NEW FORCE MAIN SANITARY SEWERS.

GRAVITY SANITARY SEWERS CONSTRUCTED WITHIN A PUBLIC WELLFIELD PROTECTION AREA SHALL BE C-900 PVC OR DUCTILE IRON PIPE. THI MAXIMUM ALLOWABLE EXFILTRATION RATE OF GRAVITY SANITARY SEWERS CONSTRUCTED IN A PUBLIC WELLFIELD PROTECTION AREA SHALL BE: a.RESIDENTIAL LAND USES. FIFTY (50) GALLONS PER INCH PIPE DIAMETER PER MILE PER DAY, BASED ON A MINIMUM TWO (2) HOUR TEXT HAVING A MINIMUM OF TWO (2) FEET OF POSITIVE HEAD ABOVE THE CROWN OF THE b.NON-RESIDENTIAL LAND USES. TWENTY (20) GALLONS PER INCH PIPE DIAMETER PER MILE PER DAY, BASED ON A MINIMUM TWO (2) HOUR TEST HAVING A MINIMUM OF TWO (2) FEET OF POSITIVE HEAD ABOVE THE CROWN OF THE PIPE

.. ANY OBSERVED LEAKS OR ANY OBVIOUSLY DEFECTIVE JOINTS OR PIPES

SHALL BE REPLACED EVEN WHEN THE TOTAL LEAKAGE IS BELOW THE

THE MAXIMUM ALLOWABLE EXFILTRATION RATE OF GRAVITY SANITARY SEWERS

CONSTRUCTED OUTSIDE A PUBLIC WELLFIELD PROTECTION AREA SHALL BE ONE

HUNDRED (100) GALLONS PER INCH PIPE DIAMETER PER MILE PER DAY, BASED

ON A MINIMUM TWO (2) HOUR TEST HAVING A MINIMUM OF TWO (2) FEET OF

POSITIVE HEAD ABOVE THE CROWN OF THE PIPE. ANY OBSERVED LEAKS OR ANY OBVIOUSLY DEFECTIVE JOINTS OR PIPES SHALL BE REPLACED EVEN WHEN THE TOTAL LEAKAGE IS BELOW THE ALLOWED. FORCE MAIN SANITARY SEWERS CONSTRUCTED WITHIN A PUBLIC WELLFIELD PROTECTION AREA SHALL BE DUCTILE IRON, C-900 PVC, HDPE OR REINFORCED CONCRETE PRESSURE SEWER PIPES. THE MAXIMUM ALLOWABLE EXFILTRATION/LEAKAGE RATE OF FORCE MAIN SANITARY SEWERS SHALL BE a.DUCTILE IRON, C-900 PVC, HDPE, AND PVC PIPE. THE ALLOWABLE LEAKAGE

RATE SPECIFIED IN AMERICAN WATER WORKS ASSOCIATION STANDARD (AWWAS)

C600-82 AT A TEST PRESSURE OF 100 PSI FOR A DURATION OF NOT LESS

- b.FOR REINFORCED CONCRETE PRESSURE PIPE. HALF (1/2) THE ALLOWABLE LEAKAGE RATE SPECIFIED IN AWWA C600-82 AT A TEST PRESSURE OF 100 PSI FOR A DURATION OF NOT LESS THAN TWO (2) HOURS. c.ANY OBSERVED LEAKS OR ANY OBVIOUS DEFECTIVE JOINTS OR PIPES SHALL BE REPLACED EVEN WHEN THE TOTAL LEAKAGE IS BELOW THAT ALLOWED. 8. THE CONTRACTOR SHALL VERIFY NATURE, DEPTH, AND CHARACTER OF EXISTING UNDERGROUND UTILITIES PRIOR TO START OF CONSTRUCTION. 9. IN NO CASE SHALL A CONTRACTOR INSTALL UTILITY PIPES, CONDUITS. CABLES,
- ETC. IN THE SAME TRENCH ABOVE AN EXISTING WATER OR SEWER PIPE FXCFPT WHERE THEY CROSS. 10.IF ANY AREA OF THE WORK SITE IS FOUND TO CONTAIN BURIED SOLID WASTE AND/OR GROUND OR GROUND WATER CONTAMINATION, THE FOLLOWING SHALL a.ALL WORK IN THE AREA SHALL FOLLOW ALL APPLICABLE SAFET
- REQUIREMENTS (E.G., OSHA, ETC.) AND NOTIFICATION MUST BE PROVIDED TO THE APPROPRIATE AGENCIES. **b.IMMEDIATELY NOTIFY THE ENVIRONMENTAL MONITORING AND RESTORATION** DIVISION (EMRD). THE EMRD CAN BE CONTACTED AT (305) 372-6700. c.IF CONTAMINATED SOILS AND/OR BURIED SOLID WASTE MATERIAL EXCAVATED DURING CONSTRUCTION, THEN THEY REQUIRE PROPER HANDLING AND DISPOSAL IN ACCORDANCE WITH THE LOCAL, STATE AND FEDERAL REGULATIONS. BE ADVISED THAT THE LANDFILL OWNER/OPERATOR IS THE FINAL AUTHORITY ON DISPOSAL AND MAY HAVE REQUIREMENTS BEYOND

THOSE PROVIDED BY HEREIN. IF DISPOSAL WITHIN A MIAMI-DADE COUNTY

OWNED LANDFILL (CLASS I LANDFILL) IS APPROPRIATE AND SELECTED,

PLEASE CONTACT THE MIAMI-DADE COUNTY DEPARTMENT OF SOLID WASTI

MANAGEMENT AT (305) 594-6666 FOR INFORMATION. d.THE REUSE OF CONTAMINATED SOILS THAT ARE NOT RETURNED TO THI ORIGINAL EXCAVATION REQUIRES PRIOR APPROVAL OF A SOIL MANAGEMENT PLAN FROM THE ENVIRONMENTAL MONITORING AND RESTORATION DIVISION. THE EMRD CAN BE CONTACTED AT (305) 372-6700. 11.PUMPS MUST COMPLY WITH THE NATIONAL ELECTRICAL CODE (NEC)

REQUIREMENTS FOR CLASS I, GROUP D, DIVISION 1 LOCATIONS (EXPLOSION

- 12. THE CONTRACTOR IS ADVISED THAT A TREE REMOVAL/RELOCATION PERMIT MAY BE REQUIRED PRIOR TO THE REMOVAL AND/OR RELOCATION OF TREE RESOURCES. PRIOR TO REMOVING OR RELOCATING ANY TREES. THI CONTRACTOR SHALL NOTIFY THE TREE AND FOREST RESOURCES SECTION OF DERM AT (305) 372-6574 OR VIA E-MAIL AT: TFRS@MIAMIDADE.GOV , OR CONTACT THE MUNICIPALITY WITH TREE ORDINANCE JURISDICTION TO OBTAIN ANY REQUIRED PERMITS. THOSE TREES NOT INTERFERING WITH THE CONSTRUCTION SHALL BE PROTECTED IN PLACE IN ACCORDANCE WITH THE PROVISIONS OF SECTION 24-49.5 OF THE MIAMI-DADE CODE 13.PLEASE NOTE THAT THE DEMOLITION, REMOVAL, AND/OR DISTURBANCE OF EXISTING UNDERGROUND UTILITIES THAT CONTAIN ASBESTOS- CEMENT PIPES (ACP) ARE SUBJECT TO THE PROVISIONS OF 40 CFR-61 SUBPART M. THEREFORE, PURSUANT TO THE PROVISIONS OF 40 CFR-61-145, A NOTICE OF DEMOLITION OR ASBESTOS RENOVATION FORM MUST BE FILED WITH THE AIR QUALITY MANAGEMENT DIVISION (AQMD) OF DERM, AT LEAST TEN (10) WORKING DAYS PRIOR TO STARTING OF ANY WORK. NOTE THAT THE BACKFILLING AND
- BURIAL OF CRUSHED ACP WOULD CAUSE THESE LOCATIONS TO BE CONSIDERED ACTIVE DISPOSAL SITES AND SUBJECT TO 40 CFR-61.154, AND 40 CFR-61.151 A YEAR AFTER PROJECT COMPLETION. EXISTING STANDARD OPERATING PROCEDURES, AS WELL AS APPLICABLE FEDERAL, STATE AND LOCAL REGULATORY CRITERIA. MUST BE FOLLOWED AND IMPLEMENTED TO MINIMIZE ANY POTENTIAL RELEASE OF FUGITIVE EMISSIONS, ESPECIALLY DURING PROJECT CONSTRUCTION ACTIVITIES. THE AQMD CAN BE CONTACTED VIA EMAIL AT ASBESTOS@MIAMIDADE.GOV OR 305-372-6925.

REV. 4/30/2018

M-DWASD WATER NOTES

WATER DISTRIBUTION SYSTEM:

RIGHT-OF-WAY PERMIT.

TRANSMISSION AND DISTRIBUTION SYSTEM

ADHERED TO BY THE CONTRACTORS WORK.

- 1. ANY EXISTING PUBLIC WATER SERVICE WITHIN THE PROPERTY IN CONFLICT WITH THE PROPOSED DEVELOPMENT MUST BE REMOVED AFTER ANY ASSOCIATED EASEMENT IS CLOSED AND RELEASED AS APPLICABLE
- 2. ALL EXISTING MAINS BEING IMPACTED BY THIS PROJECT AND ALL PROPOSED WATER AND SEWER FORCE MAINS AND FITTINGS TO BE RESTRAINED PER GS 2.0.
- 3. ALL DIP PIPING SHALL BE ZINC COATED AND POLYETHYLENE ENCASED PER A 9.0
- 4. ALL ELEVATIONS SHOWN ON THE CONSTRUCTION DRAWINGS ARE BASED ON THE NATIONAL GEODETICAL VERTICAL DATUM OF 1929. (N.G.V.D). UNLESS OTHERWISE NOTED.

FOR ALL PROJECTS WHERE REMOVAL OF UTILITY LINES IS PROPOSED

- ALL EXISTING UTILITIES BEING REMOVED AND OR RELOCATED MUST REMAIN ACTIVE AND IN SERVICE, UNTIL SUCH TIME WHEN NEW REPLACING UTILITIES HAVE BEEN INSTALLED, IN SERVICE, ACCEPTED BY THE DEPARTMENT AND ALL RELATED SERVICES FROM THE EXISTING MAINS HAVE BEEN TRANSFERRED TO THE NEW ONES, BY A LICENSED CONTRACTOR UNDER THE SUPERVISION OF WASD LICENSED OPERATOR AND WASD DONATIONS INSPECTOR UNDER THE SCOPE AND JURISDICTION OF THE CONTRACTOR'S
- ALL WATER AND/OR SEWER FACILITIES LOCATED IN PRIVATE PROPERTY SHALL BE REMOVED AFTER ALL INSTALLED SERVICES FROM THEM HAVE BEEN TRANSFERRED TO THE ALREADY INSTALLED AND IN SERVICE NEW MAINS. ANY ASSOCIATED EXCLUSIVE EASEMENTS SHALL BE CLOSED AND RELEASED AFTER THE REMOVAL OF THE EXISTING
- WATER AND/OR SEWER FACILITIES. THE FOLLOWING ACTIVITIES ON EXISTING WATER SERVICES AND/OR EXISTING WATER MAINS SUCH AS: -CUT AND PLUG
- -WATER MAIN OFFSETS -INTERCONNECTIONS -SERVICE INSTALLATIONS / RETIREMENTS / SERVICE TRANSFERS -HYDRANT INSTALLATIONS / RETIREMENTS / RELOCATIONS -ANY WORK THAT MAY AFFECT THE QUANTITY AND/OR QUALITY OF WASD'S WATER,
- SHALL BE PERFORMED BY A LICENSED CONTRACTOR UNDER THE SUPERVISION OF WASD LICENSED OPERATOR AND WASD DONATIONS INSPECTOR UNDER THE SCOPE AND JURISDICTION OF THE CONTRACTOR'S RIGHT-OF-WAY PERMIT. PRIOR TO ANY WORK BEING DONE, THE LICENSED CONTRACTOR SHALL COORDINATE WITH WASD DONATION INSPECTOR FOR THE SCHEDULING OF LICENSED OPERATOR TO BE PRESENT FOR PROPOSED ACTIVITY.

- ALL MATERIALS AND LABOR UNDER THIS PROJECT SHALL BE IN STRICT ACCORDANCE WITH THE REQUIREMENTS OF THE MIAMI-DADE WATER AND SEWER DEPARTMENT AND SHALL CONFORM TO THE STANDARDS AND SPECIFICATIONS AVAILABLE AND ON FILE WITH THE DEPARTMENT. SUBMIT SHOP DRAWINGS FOR ALL MATERIALS.
- COVER OVER WATER OR SEWER FORCE MAINS SHALL BE 4'-0" MIN.
- 3. ALL MAIN LINE VALVES SHALL BE INSTALLED COMPLETE WITH 10" RISER PIPES AND NO. 3 OR 53 VALVE BOXES FIRE HYDRANTS AND SERVICE VALVES SHALL BE INSTALLED COMPLETE WITH 6" RISER PIPES AND NO. 2 VALVE BOXES.
- . ALL FORCE MAIN SERVICE CONNECTIONS INTO PRESSURE TRANSMISSION MAINS SHALL HAVE A SHUT OFF VALVE AND
- 5. ALL GRAVITY SYSTEMS SHALL BE CONSTRUCTED IN ACCORDANCE WITH DEPARTMENT STANDARDS. 6. ALL WATER METERS WILL BE INSTALLED BY THE MIAMI-DADE WATER AND SEWER DEPARTMENT, PROVIDING THE

ALLOWED.

- . FIRE HYDRANT REQUIREMENTS (NUMBER AND LOCATION) SHALL BE AS REQUIRED BY MIAMI-DADE COUNTY FIRE
- BUSINESS DAYS PRIOR TO PROPOSED START OF CONSTRUCTION. CONTACT ONE CALL CENTER 48 HRS PRIOR TO
- THE PERMITTING AGENCY SHALL BE IN ACCORDANCE WITH THEIR STANDARDS AND REQUIREMENTS. WORK PERFORMED UNDER THIS PROJECT WILL NOT BE CONSIDERED AS COMPLETE UNTIL FINAL ACCEPTANCE OF THE SYSTEM BY THE DEPARTMENT AND UNTIL THE FOLLOWING DOCUMENTS ARE RECEIVED AND APPROVED BY THE
- EASEMENTS, IF REQUIRED CONTRACTOR'S WAIVER AND RELEASE OF LIEN

f. H.R.S. LETTER OF RELEASE REQUIRED FOR ALL WATER PROJECTS

- ABSOLUTE BILL OF SALE
- ii DEVELOPER'S CONTRACT BOND (I.E., CONTRACT AGREEMENT). HAVE BEEN SIGNED AND SEALED BY A REGISTERED SURVEYOR & MAPPER. (No. OF PRINTS: 3-FOR WATER, 4-FOR GRAVITY SEWER AND 5-FOR FORCE MAIN OR PUMP STATION PROJECTS). Submittal of final CAD Files required.
- 11. ALL NEW CONNECTIONS FROM EXISTING DEPARTMENT MAINS TO BE MADE BY DEPARTMENT FORCES ONLY. THE
- 12. AN APPROVED PAVING AND DRAINAGE PLAN MUST BE SUBMITTED TO MDWASD FOR ALL NEW SUBDIVISIONS PRIOR TO

TAPPING VALVE ARE FURNISHED AND INSTALLED BY THE CONTRACTOR UNDER THE SUPERVISION OF THE INSPECTOR. ITEM STANDARD DETAIL STANDARD REQUIREMENTS 7/20/2016 WATER AND SEWER

- CHECK VALVE AT THE POINT OF ENTRY.
- APPROPRIATE CHARGES HAVE BEEN PREPAID.
- DEPARTMENT OR THE APPROPRIATE FIRE AGENCY WITH INSTALLATION IN ACCORDANCE WITH DEPARTMENT STANDARDS. 8 CONTRACTOR MUST CALL MDWASD INSPECTION DIVISION TO ARRANGE FOR A PRECONSTRUCTION MEETING 2 FULL
- CONTRACT INSPECTOR WILL INSPECT ANY FACILITIES APPROVED BY THE DEPARTMENT. ALL OTHER REQUIREMENTS OF
- d. i. CONTRACTOR'S LETTER OF WARRANTY (I.E., LETTER AGREEMENT) "RECORD DRAWING" PRINTS (24"x 36") SHOWING SPECIFIC LOCATIONS, DEPTH, ETC. OF ALL WATER AND SEWER FACILITIES AS LOCATED BY A LICENSED SURVEYOR & MAPPER, ALONG WITH PRINTS OF "RECORD DRAWINGS" WHICH
- g. BILL OF SALE SKETCH (8½"x 11") FOR WATER AND SEWER, SEPARATELY
- CONTRACTOR TO EXCAVATE AT REQUIRED LOCATIONS, PROVIDE AND INSTALL MATERIAL WITH FITTINGS, PRIOR TO TAP.

APPROVAL OF WATER AND SEWER PERMIT PLANS, UPON REQUEST. 13. UNLESS OTHERWISE SPECIFIED, ALL TAPS 20 INCHES AND SMALLER FOR CONNECTIONS TO EXISTING MAINS WILL BE DONE BY DEPARTMENT FORCES. UNDER NO CIRCUMSTANCES WILL THE CONTRACTOR BE PERMITTED TO TAP EXISTING MAINS IN THE SIZE RANGE SPECIFIED ABOVE. THE TAPPING SLEEVE AND

CONSTRUCTION

- 1. AT THE COMPLETION OF ANY WATER AND SEWER JOB EITHER DONATION OR CONTRACT. THE CONTRACTOR SHALL a. RECORD DRAWING PRINTS WHICH HAVE BEEN SIGNED AND SEALED BY A FLORIDA LICENSED PROFESSIONAL SURVEYOR AND MAPPER (QTY. OF PRINTS AS REQUIRED BY THE DEPARTMENT).
- "RECORD DRAWING" FORMAT:
- c. CADD FILE (DWG OR DXF) ROTATED AND TRANSLATED TO STATE PLANE COORDINATES NAD 83 FLORIDA EAST
- d. THE WORDS "RECORD DRAWING" IN LARGE LETTERS e. TITLE BLOCK WITH DEPARTMENT DS, DW OR ER NUMBER AND PERTINENT INFORMATION

I. IDENTIFY ALL CONTROL LINES (I.E. BLDG. LINE, PROPERTY LINE, R/W, ETC.)

- f. Preferred scale to be 1"= 40' Horizontally and 1"= 4' Vertically* g. STREET NOMENCLATURE h. SEPARATE RECORD DRAWINGS FOR WATER AND SEWER
- i. STATIONING STARTING WITH 0+00 AT PERMANENT REFERENCE POINT (I.E. &, &, ETC.) OR AS SHOWN ON DESIGN PERMIT PLANS, AND TO RUN CONTINUOUSLY TO END OF MAIN k. EASEMENTS, IF ANY, TIED TO PERMANENT REFERENCE POINT
- m. ALL "PROPOSED" INFORMATION TO BE REMOVED FROM PRINTS, LEAVING ONLY RECORD DRAWING INFORMATION REFLECTED IN DRAWINGS

CLEARLY IDENTIFIED AND LOCATED.

SEWER "RECORD DRAWINGS" MUST INCLUDE:

i. SEPARATE WATER AND SEWER PROFILE

WATER "RECORD DRAWINGS" MUST INCLUDE: a. PLANS SHOWING PIPE SIZE, MATERIAL AND OFFSET OF MAIN, DEFLECTIONS (IF ANY), STATION OF SERVICES,

HYDRANTS, VALVES, FITTINGS, IF ANY, ALL IN STATE PLANE COORDINATES. UTILITY CROSSINGS SHALL BE

- b. PROFILE SHOWING TOP OF GROUND AND TOP OF PIPE ELEVATIONS AT EVERY 100' STATION AND AT ANY CHANGE IN GRADE (WITH CORRESPONDING STATION), PIPE SIZE AND PIPE MATERIALS REFERENCED TO PLAN.
- a. PLAN SHOWING MANHOLE NUMBER. PIPE SIZE AND PIPE MATERIAL OF PIPE, DEFLECTION, SLOPE OF GRAVITY SEWER, LOCATION OF LATERALS WITH REFERENCE TO MANHOLE AND CLEANOUTS. b. THE NORTHERLY AND EASTERLY COORDINATES ON ALL FIELD OBTAINED MEASUREMENTS AND PROVIDED ON
- ALL RECORD DRAWING SUBMITTALS c. PROFILE SHOWING MANHOLE NUMBER (AS PER PLAN), RIM AND INVERT ELEVATIONS (IF MORE THAN ONE INVERT, LABEL NORTH, SOUTH, ETC.), AND STATION STARTING AT 0+00 AT DOWNSTREAM MANHOLE.

6. EACH RECORD DRAWING SHALL SHOW THE FLORIDA STATE PLANE COORDINATES (CURRENT READJUSTMENT) OF ALL

THE MANHOLES AND VALVES AND OF AT LEAST TWO HORIZONTAL CONTROL POINTS PROPERLY IDENTIFIED AND LOCATED WITHIN THE PROJECT.

FORCE MAIN "RECORD DRAWING" SAME AS WATER MAIN.

* OTHER SCALE MAY BE PERMITTED, BUT MUST BE APPROVED BY THE DEPARTMENT PRIOR TO PREPARATION OF DRAWINGS. ITEM STANDARD DETAIL MIAMI-DADE COUNTY "RECORD DRAWING" 0.5 REQUIREMENTS HEET 2 OF 2

PERMIT SET

GENERAL NOTES AND

EW-**GI101**

WARNING: IT IS A VIOLATION OF THE NYS EDUCATION LAW ARTICLE 145 FOR ANY PERSON. UNLESS HE IS ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, LAND SURVEYOR OR GEOLOGIST, TO ALTER THIS ITEM IN ANY WAY.

STATE OF 05/25/2022 Description

Revisions

IGNATURE LEONARDO RODRIGUEZ PROFESSIONAL ENGINEER FL Lic. No. 54858

DATE SIGNE

T: 786.264.7200 F: 786.264.7201 www.langan.com EL CERTIFICATE OF AUTHORIZATION No. 00006601/LB8172/LB8198

LANGAN

Environmental Services, Inc.

15150 NW 79th Court, Suite 200

Miami Lakes, FL 33016

PHASE IIB SANITARY SEWER EXTENSION

UNIVERSITY OF MIAMI

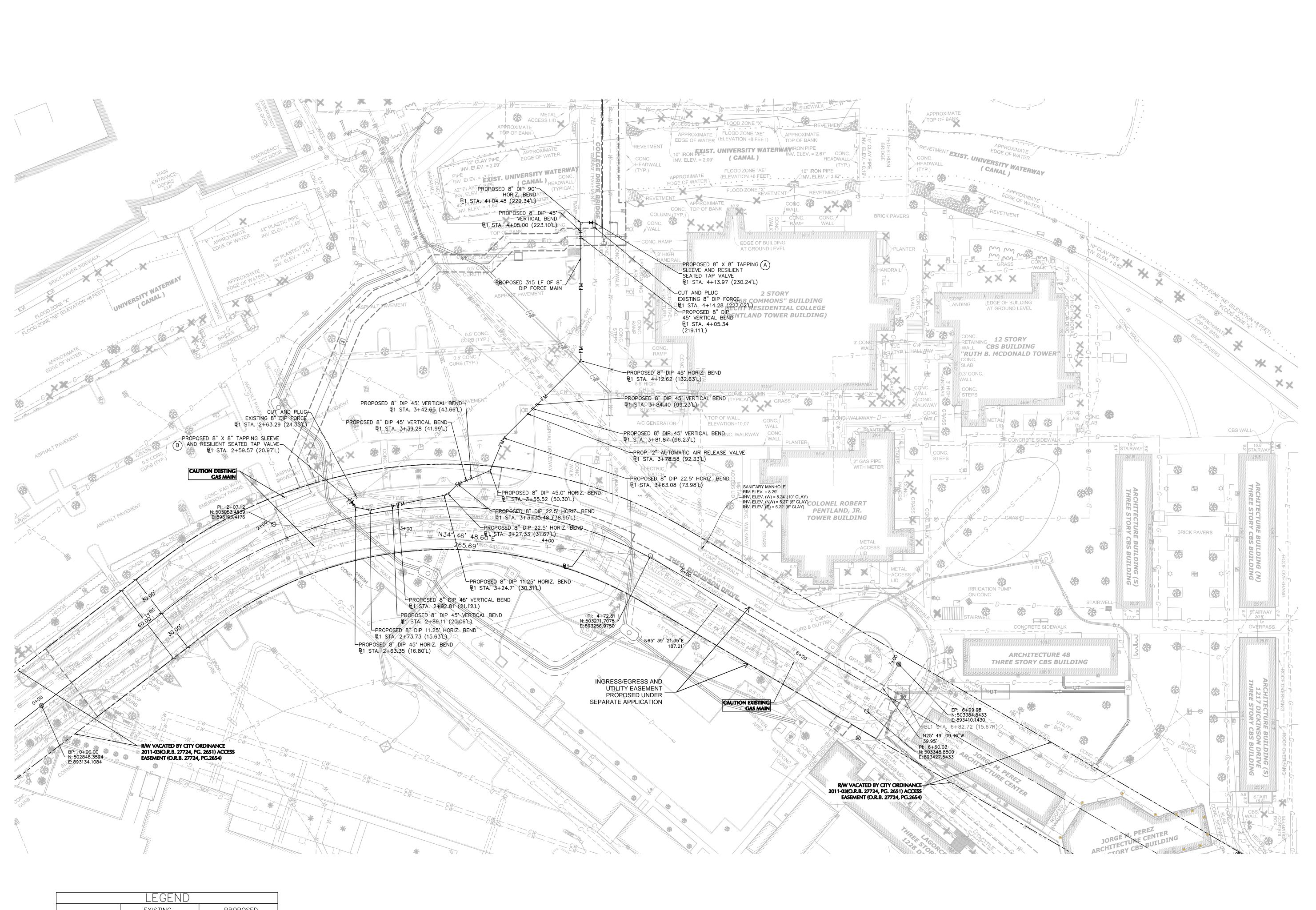
CENTENNIAL VILLAGE

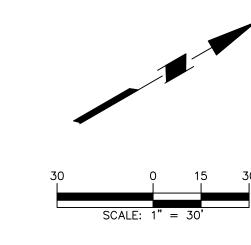
SPECIFICATIONS

APRIL 19, 2022 Drawn By Checked By

300230601

Date: 4/19/2022 Time: 11:18 User: ahenderson Style Table: Langan.stb Layout: Layout1 Document Code: 300230601-0102-GI101-0204





NOTES:

- 1. EXISTING UTILITIES ON PLAN AND PROFILE ARE BASED ON THE FOLLOWING:
- i. FP&L CONSTRUCTION DOCUMENT MEPP4589 DATED 03/22/12. ii.FP&L CONSTRUCTION DOCUMENT MEPP4590 DATED 03/22/12. iii. FP&L CONSTRUCTION DOCUMENT MEPP4595 DATED 03/22/12.
 iv. SUE DESIGNATIONS PREPARED BY LONGITUDE SURVEYORS DATED 08/14/2019.
- i. UNIVERSITY OF MIAMI CHILL WATER MASTER PLAN LOOPS 1& 2 DATED ii. CHILL WATER PLANS PREPARED BY BOSEK, GIBSON & ASSOCIATES DATED iii. SUE DESIGNATIONS PREPARED BY LONGITUDE SURVEYORS DATED
- 08/14/2019. C. UNIVERSITY TELECOMM i. UNIVERSITY OF MIAMI TELECOMMUNICATION PLANS PREPARED BY BURNUP AND SIMS COMM. SERVICES DATED 04/27/1992.
 ii. SUE DESIGNATIONS PREPARED BY LONGITUDE SURVEYORS DATED
- D. MDWASD WATER MAINS
 i. MDWASD AS-BUILT E-3890, E-14103-2, & E-14103-3.
 ii. SUE DESIGNATIONS PREPARED BY LONGITUDE SURVEYORS DATED 08/14/2019.
- E. UNIVERSITY SANITARY SEWER i. AUTOCAD FILE RECEIVED FROM NSIDE™ ON 6/28/2018

08/14/2019.

- 2. CONTRACTOR SHALL FIELD VERIFY ALL CROSSINGS PRIOR TO TAPPING THE EXISTING MAINS, INSTALLING OR RELOCATING ANY WATER METERS. 3. ALL PROPOSED DUCTILE IRON PIPE TO BE POLYETHYLENE ENCASED AND ZINC COATED PER MDWASD DETAIL A 9.0.
- 4. CONTRACTOR SHALL INSTALL INLET PROTECTION ON ALL EXISTING AND PROPOSED INLETS/CATCH BASINS, IN THE VICINITY OF THE AREAS BEING DISTURBED DURING CONSTRUCTION ACTIVITIES.
- 5. CONTRACTOR SHALL INSTALL SILT FENCE AND ANY NECESSARY DEVICES TO PREVENT SILTATION OF THE UNIVERSITY CANAL.

	EXISTING	PROPOSED		
WATER MAIN	ww			
FIRE PROTECTION LINE		FWFW		
FORCE MAIN	— — FM— — — FM — —	——FМ———FМ—		
SAN. SEWER LINE	ss			
STORM DRAINAGE LINE	DD			
ELECTRIC LINE	ee	— Е — Е –		
CHILL WATER LINE	cwcw	cwcw_		
GAS LINE	G G	——UG———UG—		
COMMUNICATION LINE	cc	UTUT_		
FIRE HYDRANT	Q	∳ ÷		
GATE VALVE	CM3	x		
BACKFLOW PREVENTER	[M]	•/		
EXFILTRATION TRENCH		3023		
MANHOLE	(1)	•		
CATCH BASIN	=			
FDC	•	<		



Revisions

SIGNATURE DATE SIGNED LEONARDO RODRIGUEZ PROFESSIONAL ENGINEER FL Lic. No. 54858

LANGAN Environmental Services, Inc. 15150 NW 79th Court, Suite 200 Miami Lakes, FL 33016

UNIVERSITY OF MIAMI CENTENNIAL VILLAGE PHASE IIB SANITARY SEWER EXTENSION

PLAN

ENABLING WORKS SANITARY SEWER

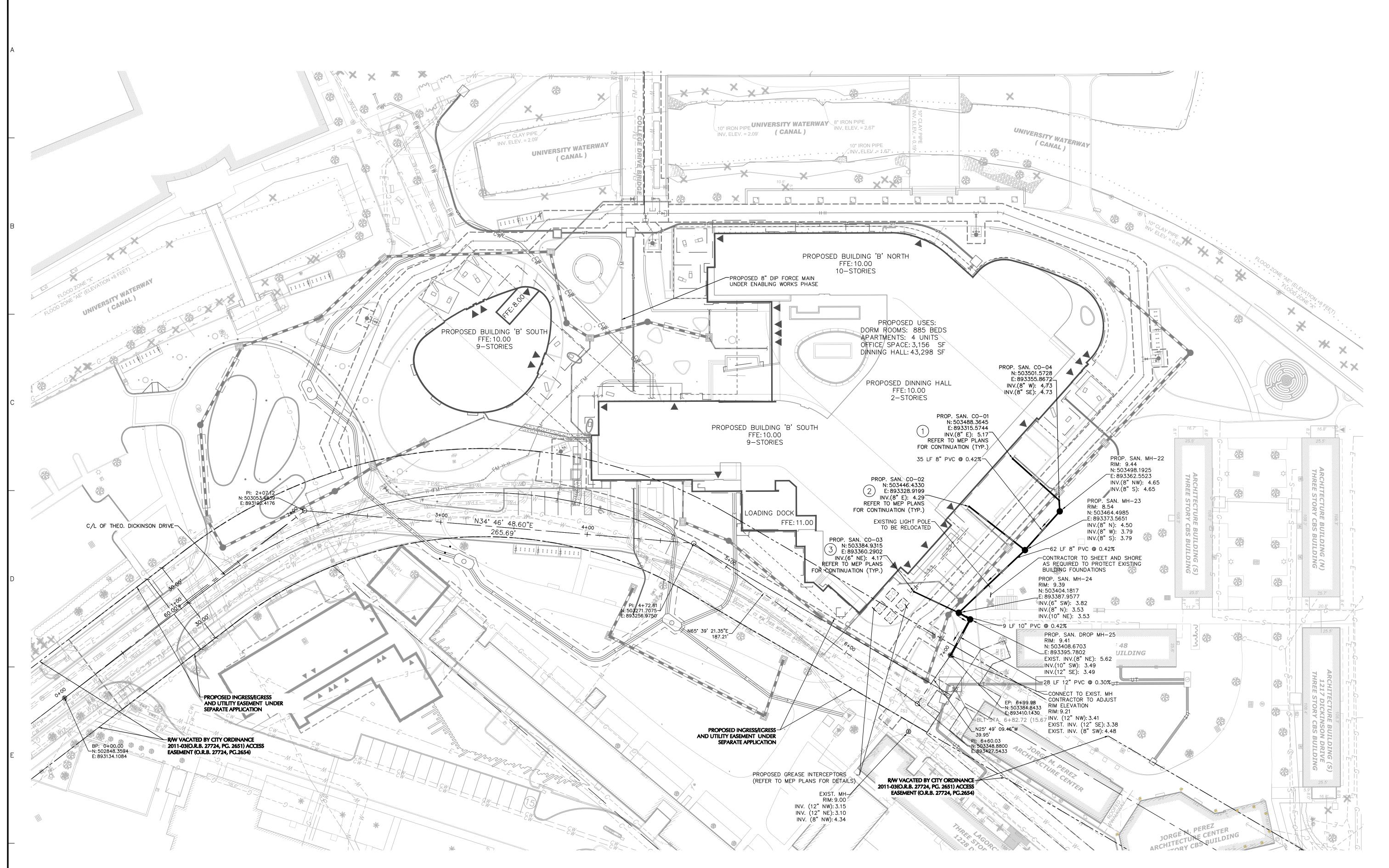
300230601 EW-**APRIL 19, 2022** KM Checked By

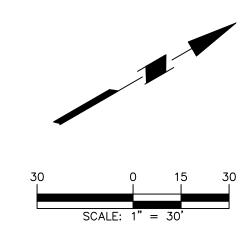
Date: 4/19/2022 Time: 11:16 User: ahenderson Style Table: Langan.stb Layout: Layout1 Document Code: 300230601-0102-CU101-0202

T: 786.264.7200 F: 786.264.7201 www.langan.com FL CERTIFICATE OF AUTHORIZATION No. 00006601/LB8172/LB8198

CU102

PERMIT SET





NOTES:

1. EXISTING UTILITIES ON PLAN AND PROFILE ARE BASED ON THE FOLLOWING:

i. FP&L CONSTRUCTION DOCUMENT MEPP4589 DATED 03/22/12.

ii. FP&L CONSTRUCTION DOCUMENT MEPP4590 DATED 03/22/12. iii. FP&L CONSTRUCTION DOCUMENT MEPP4595 DATED 03/22/12.

iv. SUE DESIGNATIONS PREPARED BY LONGITUDE SURVEYORS DATED 08/14/2019.

i. UNIVERSITY OF MIAMI CHILL WATER MASTER PLAN LOOPS 1& 2 DATED

ii. CHILL WATER PLANS PREPARED BY BOSEK, GIBSON & ASSOCIATES DATED 08/31/1994. iii. SUE DESIGNATIONS PREPARED BY LONGITUDE SURVEYORS DATED 08/14/2019.

C. UNIVERSITY TELECOMM

i. UNIVERSITY OF MIAMI TELECOMMUNICATION PLANS PREPARED BY BURNUP AND SIMS COMM. SERVICES DATED 04/27/1992.
ii. SUE DESIGNATIONS PREPARED BY LONGITUDE SURVEYORS DATED 08/14/2019.

D. MDWASD WATER MAINS
i. MDWASD AS—BUILT E—3890, E—14103—2, & E—14103—3.
ii. SUE DESIGNATIONS PREPARED BY LONGITUDE SURVEYORS DATED 08/14/2019.

E. UNIVERSITY SANITARY SEWER i. AUTOCAD FILE RECEIVED FROM NSIDE™ ON 6/28/2018

GABLES STANDARD DETAIL 2-8.

2. CONTRACTOR SHALL FIELD VERIFY ALL CROSSINGS PRIOR TO TAPPING THE EXISTING MAINS, INSTALLING OR RELOCATING ANY WATER METERS. 3. ALL 8" GRAVITY SEWER MAINS SHALL BE PVC C900 UNLESS OTHERWISE NOTED.

ALL 6" GRAVITY SEWER LATERALS SHALL BE SDR 35. 4. SANITARY SEWER MANHOLE COVERS SHALL BE U.S. FOUNDRY (USF) TYPE 285 RING AND EX COVER OR APPROVED EQUAL.

5. ALL SANITARY SEWER CLEAN OUTS SHALL HAVE CONCRETE COLLAR PER MDWASD DETAILSS 21.0. CLEAN OUTS SHALL BE USF 7605 RING AND HEXAGON 6. ALL PROPOSED DUCTILE IRON PIPE TO BE POLYETHYLENE ENCASED AND ZINC COATED PER MDWASD DETAIL A 9.0.

7. ALL PROPOSED SANITARY DROP MANHOLES SHALL CONFORM TO CITY OF CORAL

LEGEND				
	EXISTING	PROPOSED		
WATER MAIN	$ \mathtt{w} \mathtt{w}$			
FIRE PROTECTION LINE		FWFW		
FORCE MAIN	— — FM— — — FM — —	——FМ———FМ——		
SAN. SEWER LINE	ss			
STORM DRAINAGE LINE	DD			
ELECTRIC LINE	ee	— Е — Е —		
CHILL WATER LINE	cwcw	cwcw		
GAS LINE	G G	UGUG		
COMMUNICATION LINE	cc	——UT——— UT——		
FIRE HYDRANT	Q*	♦ ÷		
TURBINE METER				
GATE VALVE	CWI	x		
BACKFLOW PREVENTER	Decl	•1-11-1•		
EXFILTRATION TRENCH		3053		
MANHOLE	0	•		
CATCH BASIN	=			
FDC	•	<		

SANITA	RY PIPE DESCRIPTIO	N TABLE		
PIPE	PIPE LENGTH (FT)	Diameter (In)	Slope	Material
SAN-MH-22 TO SAN-MH-23	35	8	0.42%	PVC
SAN-MH-23 TO SAN-MH-24	62	8	0.42%	PVC
SAN-MH-24 TO SAN-DROP-MH-25	9	10	0.42%	PVC
SAN-DROP-MH-25 TO EXIST. MH	28	12	0.30%	PVC

4 SANITARY MANHOLES PROPOSED

05/25/2022

SIGNATURE Description Revisions

LANGAN Environmental Services, Inc. 15150 NW 79th Court, Suite 200 Miami Lakes, FL 33016

UNIVERSITY OF MIAMI CENTENNIAL VILLAGE PHASE IIB SANITARY SEWER EXTENSION

SANITARY SEWER PLAN

300230601 **APRIL 19, 2022** Drawn By

CU102

PERMIT SET

WARNING: IT IS A VIOLATION OF THE NYS EDUCATION LAW ARTICLE 145 FOR ANY PERSON, UNLESS HE IS ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, LAND SURVEYOR OR GEOLOGIST, TO ALTER THIS ITEM IN ANY WAY.

DATE SIGNED LEONARDO RODRIGUEZ PROFESSIONAL ENGINEER FL Lic. No. 54858

T: 786.264.7200 F: 786.264.7201 www.langan.com FL CERTIFICATE OF AUTHORIZATION No. 00006601/LB8172/LB8198

Date: 4/19/2022 Time: 11:20 User: ahenderson Style Table: Langan.stb Layout: Layout1 Document Code: 300230601-0102-CU101-0209

Checked By

PROP. 8" DIP FORCE MAIN PROFILE

NOTES:

1. EXISTING UTILITIES ON PLAN AND PROFILE ARE BASED ON THE FOLLOWING:

i. FP&L CONSTRUCTION DOCUMENT MEPP4589 DATED 03/22/12. ii.FP&L CONSTRUCTION DOCUMENT MEPP4590 DATED 03/22/12. iii. FP&L CONSTRUCTION DOCUMENT MEPP4595 DATED 03/22/12.
iv. SUE DESIGNATIONS PREPARED BY LONGITUDE SURVEYORS DATED

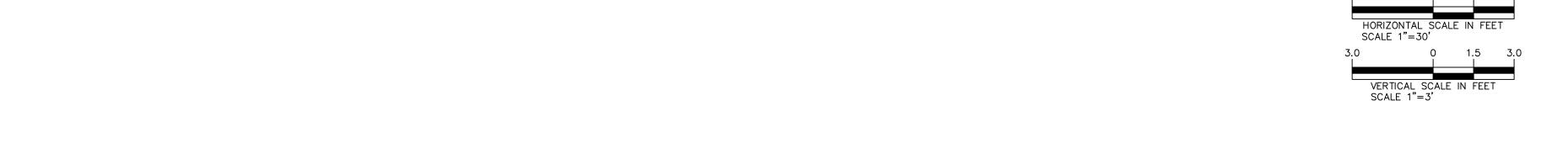
i. UNIVERSITY OF MIAMI CHILL WATER MASTER PLAN LOOPS 1& 2 DATED ii. CHILL WATER PLANS PREPARED BY BOSEK, GIBSON & ASSOCIATES DATED 08/31/1994. iii. sue designations prepared by longitude surveyors dated

C. UNIVERSITY TELECOMM

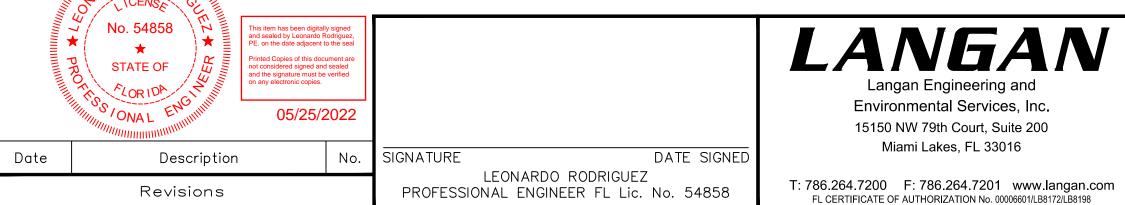
i. UNIVERSITY OF MIAMI TELECOMMUNICATION PLANS PREPARED BY BURNUP AND SIMS COMM. SERVICES DATED 04/27/1992.
ii.SUE DESIGNATIONS PREPARED BY LONGITUDE SURVEYORS DATED

D. MDWASD WATER MAINS i. MDWASD AS-BUILT E-3890, E-14103-2, & E-14103-3.
ii. SUE DESIGNATIONS PREPARED BY LONGITUDE SURVEYORS DATED

E. UNIVERSITY SANITARY SEWER i. AUTOCAD FILE RECEIVED FROM NSIDE™ ON 6/28/2018 2. CONTRACTOR SHALL FIELD VERIFY ALL CROSSINGS PRIOR TO TAPPING THE



PERMIT SET



UNIVERSITY OF MIAMI CENTENNIAL VILLAGE PHASE IIB SANITARY

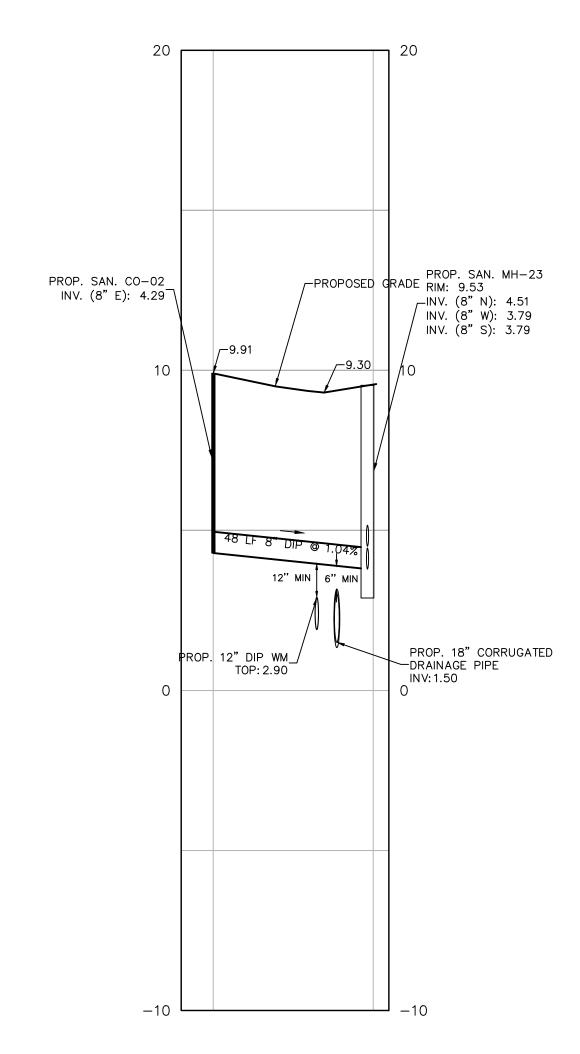
PROFILES SEWER EXTENSION

ENABLING WORKS SANITARY SEWER

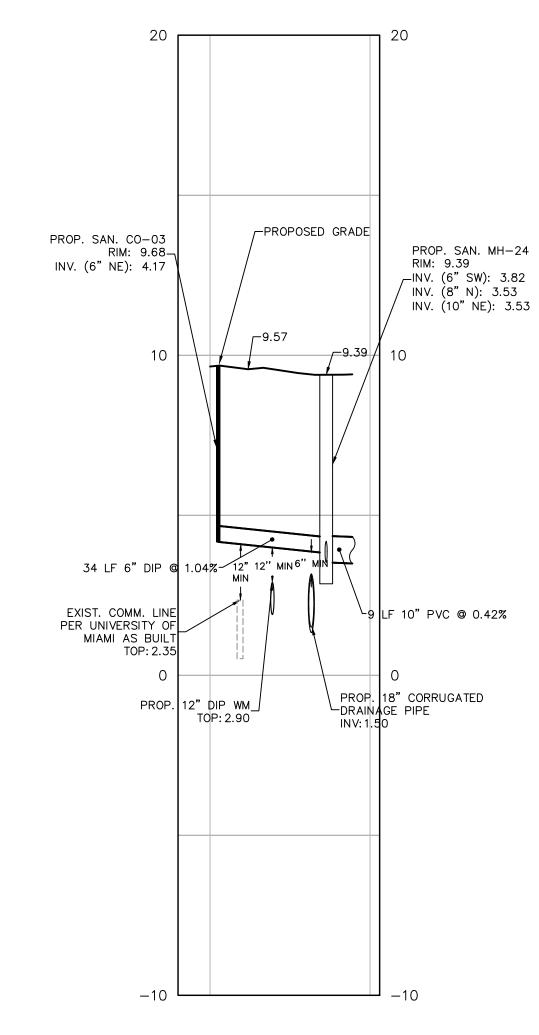
300230601 **APRIL 19, 2022** CU104 Drawn By Checked By

Date: 4/19/2022 Time: 11:14 User: ahenderson Style Table: Langan.stb Layout: EW-CU104 Document Code: 300230601-0102-CU101-0207

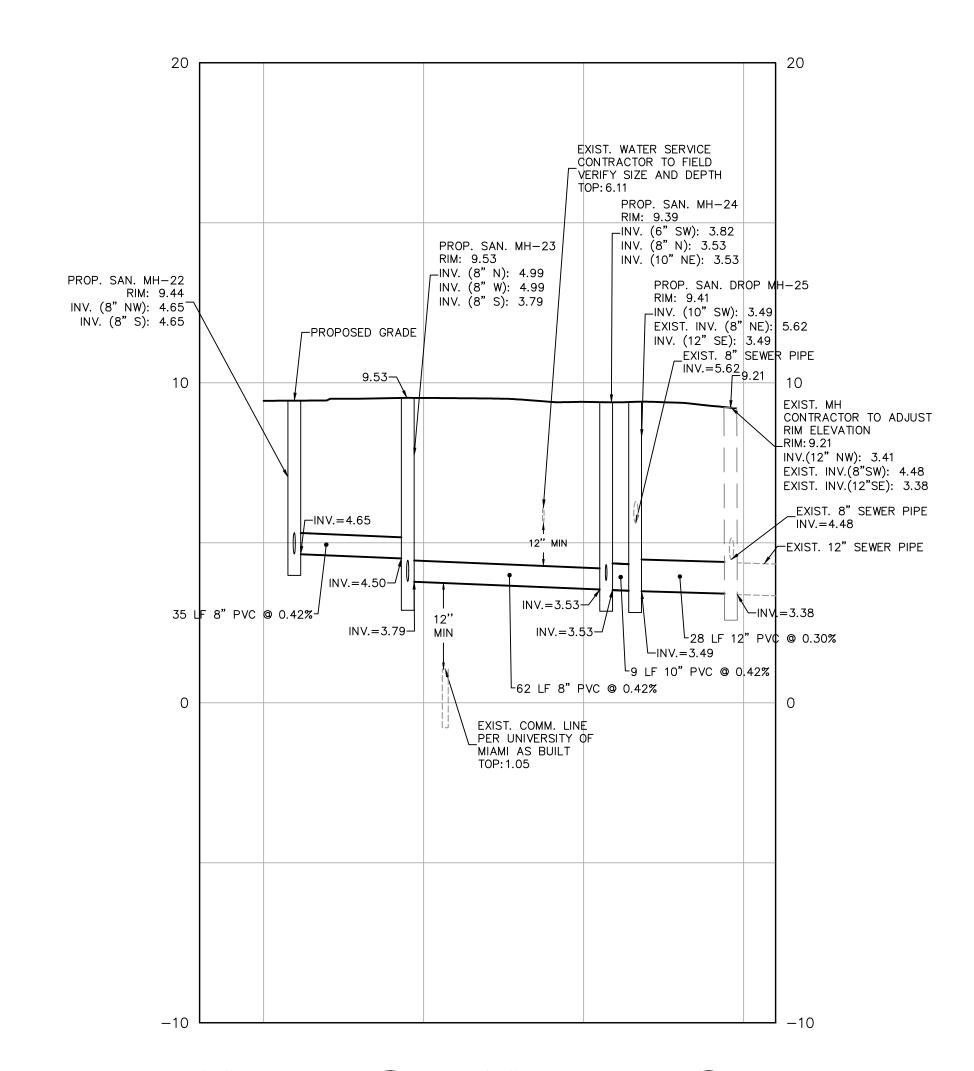
PROP. 8" DIP SAN. LATERAL (1) PROFILE



PROP. 8" DIP SAN. LATERAL (2) PROFILE

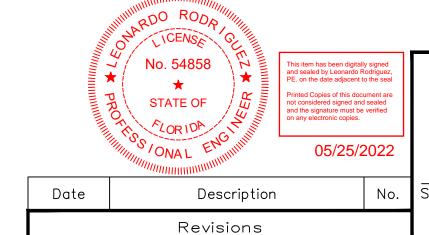


PROP. 6" DIP SAN. LATERAL (3) PROFILE



MH-22 TO MH-25 PROFILE

PERMIT SET



SIGNATURE DATE SIGNED LEONARDO RODRIGUEZ

LANGAN Environmental Services, Inc. 15150 NW 79th Court, Suite 200 Miami Lakes, FL 33016

UNIVERSITY OF MIAMI CENTENNIAL VILLAGE PHASE IIB SANITARY SEWER EXTENSION

SANITARY SEWER **PROFILES**

300230601 **APRIL 19, 2022** Drawn By Checked By

Date: 4/19/2022 Time: 11:14 User: ahenderson Style Table: Langan.stb Layout: CU-106 Document Code: 300230601-0102-CU101-0207

08/14/2019. E. UNIVERSITY SANITARY SEWER i. AUTOCAD FILE RECEIVED FROM NSIDE™ ON 6/28/2018 2. CONTRACTOR SHALL FIELD VERIFY ALL CROSSINGS PRIOR TO TAPPING THE EXISTING MAINS, INSTALLING OR RELOCATING ANY WATER METERS.

i. MDWASD AS-BUILT E-3890, E-14103-2, & E-14103-3.

1. EXISTING UTILITIES ON PLAN AND PROFILE ARE BASED ON THE FOLLOWING:

i. FP&L CONSTRUCTION DOCUMENT MEPP4589 DATED 03/22/12.

iii. FP&L CONSTRUCTION DOCUMENT MEPP4595 DATED 03/22/12.

08/14/2019.

C. UNIVERSITY TELECOMM

D. MDWASD WATER MAINS

iv. SUE DESIGNATIONS PREPARED BY LONGITUDE SURVEYORS DATED

i. UNIVERSITY OF MIAMI CHILL WATER MASTER PLAN LOOPS 1& 2 DATED ii. CHILL WATER PLANS PREPARED BY BOSEK, GIBSON & ASSOCIATES DATED 08/31/1994. iii. SUE DESIGNATIONS PREPARED BY LONGITUDE SURVEYORS DATED

i. UNIVERSITY OF MIAMI TELECOMMUNICATION PLANS PREPARED BY BURNUP AND SIMS COMM. SERVICES DATED 04/27/1992.
ii. SUE DESIGNATIONS PREPARED BY LONGITUDE SURVEYORS DATED

ii. SUE DESIGNATIONS PREPARED BY LONGITUDE SURVEYORS DATED

PROFESSIONAL ENGINEER FL Lic. No. 54858

T: 786.264.7200 F: 786.264.7201 www.langan.com FL CERTIFICATE OF AUTHORIZATION No. 00006601/LB8172/LB8198

EW-CU104

Allocation Letter and Sewer Flow Calculations



2/16/2024

Issued Date: 7/6/2022

UNIVERSITY OF MIAMI INS & R E OFFICE PO BOX 248106 CORAL GABLES, FL 33124

Alex MacNamara University of Miami 1535 Levante Avenue Coral Gables, FL 33146

RE: Conditional Sanitary Sewer Certification of Adequate Capacity

The Department of Regulatory and Economic Resources (RER) has received your application for approval of additional sewer flows for following project, which is more specifically described in the attached project summary.

Project Name: CENTTENIAL VILLAGE PHASE B @ U OF M SCHOOL/M2021019605

Project Location: 1231 DICKINSON DR, CORAL GABLES, FL 33146

Previous Use: 12-story Pentland Dormitory Tower with 427 beds (42,700 GPD)

12-story McDonald Dormitory Tower with 427 beds (42,700 GPD)

2-story Hecht School Bldg. 23,197 SF (2,784 GPD) and 1 faculty apartment (135 GPD) on the 1st floor with 3,043 SF.

Total credit: 85,400 GPD Dorm + 135 GPD Apartment + 2,784 GPD School = 88,319 GPD

Proposed Use: Proposed 885 Student Dormitories (88,500 GPD); 4 Apartments (540 GPD); 43,298 SF Dining Hall (43,298 GPD) and

3,156 SF Office (158 GPD) Total Flow: 132,496 GPD

Previous Flow: 88319 GPD

Total Calculated Flow: 132496 GPD

Allocated Flow (additional sewer flows): 44177 GPD

Sewer Utility: UNIVERSITY OF MIAMI Receiving Pump Station: 77 - UM01A

RER has evaluated your request in accordance with the terms and conditions set forth in Appendix A of the Consent Decree (CASE No. 1:12-CV-24400-FAM) between the United States of America and Miami-Dade County. RER hereby conditionally certifies that adequate treatment and transmission capacity will be available for the above-described project subject to the following conditions:

THIS LETTER SUPERSEDES THE SEWER CERTIFICATION PREVIOUSLY ISSUED FOR THE SAME PROJECT IN JULY 2022. THE REVISION CONSISTS OF CORRECTING THE RECEIVING PUMP STATION PER REVISED ALLOCATION APPLICATION SIGNED BY UM UTILITY.

PERMITTING, CONSTRUCTION, COMPLETION AND CERTIFICATION OF THE SANITARY SEWER EXTENSION NO. SE 2022-SEW-EXT-1. PLEASE BE ADVISED THAT ISSUANCE OF ANY CERTIFICATE OF OCCUPANCY, CERTIFICATE OF COMPLETION, CERTIFICATE OF USE AND/OR OCCUPATIONAL LICENSE FOR THE SUBJECT PROJECT WILL BE WITHHELD PENDING COMPLIANCE WITH ANY AND ALL CONDITIONS STIPULATED BY APPLICABLE LOCAL AND STATE PERMITS FOR THE COLLECTION/TRANSMISSION SYSTEM IMPROVEMENT(S) HEREIN REQUIRED.

Furthermore, be advised that this approval does not constitute departmental approval for the proposed project and is subject to the terms and conditions set forth in the Consent Decree. Additional reviews and approvals may be required from other sections having jurisdiction over specific aspects of this project. Also, be advised that the gallons per day (GPD) flow determination indicated herein are for sewer allocation purposes only (in compliance with the Consent Decree requirements) and may not be representative of GPD flows used in calculating connection fees by the utility providing the service.

By copy of this certification to the Building Department having jurisdiction over this proposed project, said department building official is hereby ordered to condition any building permit(s) issued pursuant to this certification to the above mentioned conditions.

Be advised that this Conditional Sanitary Sewer Certification of Adequate Capacity (this letter) will expire within 90 days of the issue date if the applicant does not obtain a building process number from the corresponding building official. However, if the building process number has already been obtained, this letter will expire within 180 days of the expiration date of the process number. Finally, if a Building Permit was secured for this project, this letter will expire within 150 days of the expiration date of the Building Permit.

Should you have any questions regarding this matter, please contact the Miami-Dade Permitting and Inspecting Center (MDPIC) (786) 315-2800 or RER Office of Plan Review Services, Downtown Office (305) 372-6899.

Sincerely,

Lisa M. Spadafina, Director Division of Environmental Resources Management



Sanitary Sewer Certification of Adequate Capacity Project Summary:

Owner's Name: UNIVERSITY OF MIAMI INS & R E OFFICE

Owner's Address: PO BOX 248106

CORAL GABLES, FL 33124

EEOS Allocation Number: 2021-ALLOCATION-02749

Project: CENTTENIAL VILLAGE PHASE B @ U OF M SCHOOL/M2021019605

Proposed Use: Proposed 885 Student Dormitories (88,500 GPD); 4 Apartments (540 GPD); 43,298 SF Dining Hall (43,298

GPD) and 3,156 SF Office (158 GPD) Total Flow: 132,496 GPD

Pump Station: 77-UM01A Projected NAPOT: 3.88

Proposed Projected NAPOT: 4.31

Folio	Lot/Block Bldg Proc #	Address		Sewer Status	Sewer Cert Date		Exp. Date
0341300150010		1231 Dickinson Drive, Coral Gables FL	44,177	APP	7/6/2022	11/13/2023	
Total:			44,177	GPD			



Florida Department of Environmental Protection

NOTIFICATION/APPLICATION FOR CONSTRUCTING A DOMESTIC WASTEWATER COLLECTION/TRANSMISSION SYSTEM

PART I - GENERAL

Subpart A: Permit Application Type

Permit Application Type (mark one only)	EDUs Served	Application Fee*	"X"
Are you applying for an individual permit for a domestic wastewater collection/transmission system? Note: an EDU is equal to 3.5 persons. Criteria for an individual permit are contained in Rule 62-604.600(7), F.A.C.	≥ 10	\$500	х
	< 10	\$300	
Is this a Notice of Intent to use the general permit for wastewater collection/transmission systems? Criteria for qualifying for a general permit are contained in Rule 62-604.600(6), F.A.C. Projects not meeting the criteria in Rule 62-604.600(6), F.A.C., must apply for an individual permit.	N/A	\$250	

^{*}Note: Each non-contiguous project (i.e., projects that are not interconnected or are not located on adjacent streets or in the same neighborhood) requires a separate application and fee.

Subpart B: Instructions

- (1) This form shall be completed for all domestic wastewater collection/transmission system construction projects as follows:
 - If this is a Notice of Intent to use the general permit, this notification shall be submitted to the Department at least 30 days prior to
 initiating construction.
 - If this is an application for an individual permit, the permit must be obtained prior to initiating construction.
- (2) One copy of the completed form shall be submitted to the appropriate DEP district office or delegated local program along with the appropriate fee, and one copy of the following supporting documents. Checks should be made payable to the Florida Department of Environmental Protection, or the name of the appropriate delegated local program.
 - If this is a Notice of Intent to use the general permit, attach a site plan or sketch showing the size and approximate location of new or altered gravity sewers, pump stations and force mains; showing the approximate location of manholes and isolation valves; and showing how the proposed project ties into the existing or proposed wastewater facilities. The site plan or sketch shall be signed and sealed by a professional engineer registered in Florida.
 - If this is an application for an individual permit, one set of plans and specifications shall be submitted with this application, or alternatively, an engineering report shall be submitted. Plans and specifications and engineering reports shall be prepared in accordance with the applicable provisions of Chapters 10 and 20 of *Recommended Standards for Wastewater Facilities*. The plans and specifications or engineering report shall be signed and sealed by a Professional Engineer registered in Florida.
- (3) All information shall be typed or printed in ink. Where attached sheets (or other technical documentation) are utilized in lieu of the blank spaces provided, indicate appropriate cross-references on the form. For Items (1) through (4) of Part II of this application form, if an item is not applicable to your project, indicate "NA" in the appropriate space provided.

PART II - PROJECT DOCUMENTATION

Name Jessica Brumley	Title	Vice President, Fa	cilities O	perations
Company Name University of Miami		·		
Address 1535 Levante Avenue				
City Coral Gables	State	Florida	Zip	33146
Telephone 305-284-5660 Fax	Ema	ail jbrumley@mi	ami.edu	
 General Project Information Project Name University of Miami Centennial Village - Ph Location: County Miami Dade City Coral Gables 				Range
Project Description and Purpose (including pipe length, range of pipe d			· _	
	nameter, total in	amoer or mamores, and	i totai mam	oci oi puinp suutons).
The proposed Improvements will consist of: 1- Enabling Works= 315 LF of 8" DIP Force Main. 2- Phase IIB= 97 LF of 8" PVC C900 Gravity Sewer Main, 9 LF of 10" PVC C90 Sewer Manholes.	00 Gravity Sewer	Main, 28 LF of 12" PVC C	900 Gravity	Sewer Main and 4 Sanitary
1- Enabling Works= 315 LF of 8" DIP Force Main. 2- Phase IIB= 97 LF of 8" PVC C900 Gravity Sewer Main, 9 LF of 10" PVC C90	-	Main, 28 LF of 12" PVC C	900 Gravity 09/202	
1- Enabling Works= 315 LF of 8" DIP Force Main. 2- Phase IIB= 97 LF of 8" PVC C900 Gravity Sewer Main, 9 LF of 10" PVC C90 Sewer Manholes.	Comp	oletion of construction	-	

Population

Capita Flow

Daily Flow

hour flow

Per Unit

Proposed Project Consists of 885 Dorm Beds. 4 Apartments, 3,156 SF of office space and 43,298 SF of dining Hall. 885 Beds @ 100GPD / Bed + 4 apartments @ 135 GPD / Unit + 3,156 SF of Office Space @ 5 GPD / 100SF + 43,298 SF @ 100GPD / 100SF =132,495.80 GPD. Using the ten state standards a Peaking Factor of 3.72 was utilized. Peak Hour Flow=132,495*3.72 / 24 = 20,536.85 GPH

(4) Pump Station Data (attached additional sheets as necessary)

		Estimated Flow to the Station (GPD)			
Location	Type	Maximum	Average	Minimum	Operating Conditions [GPM @ FT (TDH)]

(5) Collection/Transmission System Design Information

Units

A. This information must be completed for all projects by the applicant's professional engineer, and if applicable, those professional engineers in other disciplines who assisted with the design of the project.

If this project has been designed to comply with the standards and criteria listed below, the engineer shall initial in ink before the standards or criteria. If any of the standards or criteria do not apply to this project or if this project has not been designed to comply with the standards or criteria, mark "X" before the appropriate standard or criteria and provide an explanation, including any applicable rule references, in (5)B. below.

Note, if the project has not been designed in accordance with the standards and criteria set forth in Rules 62-604.400(1) and (2), F.A.C., an application for an individual permit shall be submitted. However, if Rules 62-604.400(1) and (2), F.A.C., specifically allow for another alternative that will result in an equivalent level of reliability and public health protection, the project can be constructed using the general permit.

General Requirements

- LR
 1. The project is designed based on an average daily flow of 100 gallons per capita plus wastewater flow from industrial plants and major institutional and commercial facilities unless water use data or other justification is used to better estimate the flow. The design includes an appropriate peaking factor, which covers I/I contributions and non-wastewater connections to those service lines. [RSWF 11.243]
- LR 2. Procedures are specified for operation of the collection/transmission system during construction. [RSWF 20.15]
- 23. The project is designed to be located on public right-of-ways, land owned by the permittee, or easements and to be located no closer than 100 feet from a public drinking water supply well and no closer than 75 feet from a private drinking water supply well; or documentation is provided in Part II.(5)B., showing that another alternative will result in an equivalent level of reliability and public health protection. [62-604.400(1)(b) and (c), F.A.C.]
- 4. The project is designed with no physical connections between a public or private potable water supply system and a sewer or force main and with no water pipes passing through or coming into contact with any part of a sewer manhole. [RSFW 38.1 and 48.5]
- 5. The project is designed to preclude the deliberate introduction of storm water, surface water, groundwater, roof runoff, subsurface drainage, swimming pool drainage, air conditioning system condensate water, non-contact cooling water except as provided by Rule 62-610.668(1), F.A.C., and sources of uncontaminated wastewater, except to augment the supply of reclaimed water in accordance with Rule 62-610.472(3)(c), F.A.C. [62-604.400(1)(d), F.A.C.]
- 6. The project is designed so that all new or relocated, buried sewers and force mains, are located in accordance with the separation requirements from water mains and reclaimed water lines of Rules 62-604.400(2)(g)(h) and (i) and (3), F.A.C. Note, if the criteria of Rules 62-604.400(2)(g) 4. or (2)(i) 3., F.A.C., are used, describe in Part II.(5)BC. alternative construction features that will be provided to afford a similar level of reliability and public health protection. [62-604.400(2)(g), (h), and (i) and (3), F.A.C.]

Gravity Sewers

- 7. The project is designed with no public gravity sewer conveying raw wastewater less than 8 inches in diameter. [RSWF 33.1]
- 8. The design considers buoyancy of sewers, and appropriate construction techniques are specified to prevent flotation of the pipe where high groundwater conditions are anticipated. [RSWF 33.3]
- 9. All sewers are designed with slopes to give mean velocities, when flowing full, of not less than 2.0 feet per second, based on Manning's formula using an "n" value of 0.013; or if it is not practicable to maintain these minimum slopes and the depth of flow will be 0.3 of the diameter or greater for design average flow, the owner of the system has been notified that additional sewer maintenance will be required. The pipe diameter and slope are selected to obtain the greatest practical velocities to minimize solids deposition problems. Oversized sewers are not specified to justify flatter slopes. [RSWF 33.41, 33.42, and 33.43]
- LR 10. Sewers are designed with uniform slope between manholes. [RWSF 33.44]
 - X 11. Where velocities greater than 15 fps are designed, provisions to protect against displacement by erosion and impact are specified. [RSWF 33.45]
- X 12. Sewers on 20% slopes or greater are designed to be anchored securely with concrete, or equal, anchors spaced as follows: not over 36 feet center to center on grades 20% and up to 35%; not over 24 feet center to center on grades 35% and up to 50%; and not over 16 feet center to center on grades 50% and over. [RSWF 33.46]

LR 13. Sewers 24 inches or less are designed with straight alignment between manholes. Where curvilinear sewers are proposed for sewers greater than 24 inches, the design specifies compression joints; ASTM or specific pipe manufacturer's maximum allowable pipe joint deflection limits are not exceeded; and curvilinear sewers are limited to simple curves which start and end at manholes. [RSWF 33.5] LR 14. Suitable couplings complying with ASTM specifications are required for joining dissimilar materials. [RSWF 33.7] LR 15. Sewers are designed to prevent damage from superimposed loads. [RSWF 33.7] LR 16. Appropriate specifications for the pipe and methods of bedding and backfilling are provided so as not to damage the pipe or its joints, impede cleaning operations and future tapping, nor create excessive side fill pressures and ovalation of the pipe, nor seriously impair flow capacity. [RSWF 33.81] LR 17. Appropriate deflection tests are specified for all flexible pipe. Testing is required after the final backfill has been in place at least 30 days to permit stabilization of the soil-pipe system. Testing requirements specify: 1) no pipe shall exceed a deflection of 5%; 2) using a rigid ball or mandrel for the deflection test with a diameter not less than 95% of the base inside diameter or average inside diameter of the pipe, depending on which is specified in the ASTM specification, including the appendix, to which the pipe is manufactured; and 3) performing the test without mechanical pulling devices. [RSWF 33.85] 18. Leakage tests are specified requiring that: 1) the leakage exfiltration or infiltration does not exceed 200 gallons per inch of pipe diameter per mile per day for any section of the system; 2) exfiltration or infiltration tests be performed with a minimum positive head of 2 feet; and 3) air tests, as a minimum, conform to the test procedure described in ASTM C-828 for clay pipe, ASTM C 924 for concrete pipe, ASTM F-1417 for plastic pipe, and for other materials appropriate test procedures. [RSWF 33.93, 33.94, and 33.95] Х 19. If an inverted siphon is proposed, documentation of its need is provided in Part II.(5)BC. Inverted siphons are designed with: 1) at least two barrels; 2) a minimum pipe size of 6 inches; 3) necessary appurtenances for maintenance, convenient flushing, and cleaning equipment; and 4) inlet and discharge structures having adequate clearances for cleaning equipment, inspection, and flushing. Design provides sufficient head and appropriate pipe sizes to secure velocities of at least 3.0 fps for design average flows. The inlet and outlet are designed so that the design average flow may be diverted to one barrel, and that either barrel may be cut out of service for cleaning. [RSWF 35] Manholes LR 20. The project is designed with manholes at the end of each line; at all changes in grade, size, or alignment; at all intersections; and at distances not greater than 400 feet for sewers 15 inches or less and 500 feet for sewers 18 inches to 30 inches, except in the case where adequate modern cleaning equipment is available at distances not greater than 600 feet. [RSWF 34.1] LR 21. Design requires drop pipes to be provided for sewers entering manholes at elevations of 24 inches or more above the manhole invert. Where the difference in elevation between the incoming sewer and the manhole invert is less than 24 inches, the invert is designed with a fillet to prevent solids deposition. Inside drop connections (when necessary) are designed to be secured to the interior wall of the manhole and provide access for cleaning. Design requires the entire outside drop connection be encased in concrete. [RSWF 34.2] LR 22. Manholes are designed with a minimum diameter of 48 inches and a minimum access diameter of 22 inches. [RSWF LR 23. Design requires that a bench be provided on each side of any manhole channel when the pipe diameter(s) are less than the manhole diameter and that no lateral sewer, service connection, or drop manhole pipe discharges onto the surface of the bench. [RSWF 34.5] LR 24. Design requires: 1) manhole lift holes and grade adjustment rings be sealed with non-shrinking mortar or other appropriate material; 2) inlet and outlet pipes be joined to the manhole with a gasketed flexible watertight connection or another watertight connection arrangement that allows differential settlement of the pipe and manhole wall; and 3) watertight manhole covers be used wherever the manhole tops may be flooded by street runoff or high water. [RSWF

LR

X

26. Electrical equipment specified for use in manholes is consistent with Item 46 of this checklist. [RSWF 34.9]

25. Manhole inspection and testing for watertightness or damage prior to placing into service are specified. Air testing, if specified for concrete sewer manholes, conforms to the test procedures described in ASTM C-1244. [RSWF 34.7]

Stream Crossings

Χ 27. Sewers and force mains entering or crossing streams are designed to be constructed of ductile iron pipe with mechanical joints or so they will remain watertight and free from changes in alignment or grade. Appropriate materials which will not readily erode, cause siltation, damage pipe during placement, or corrode the pipe are specified to backfill the trench. [RSWF 36.21 and 48.5] Χ 28. Stream crossings are designed to incorporate valves or other flow regulating devices (which may include pump stations) on the shoreline or at such distances from form the shoreline to prevent discharge in the event the line is damaged. [62-604.400(2)(k)5., F.A.C.] Χ 29. Sewers and force mains entering or crossing streams are designed at a sufficient depth below the natural bottom of the stream bed to protect the line. At a minimum, the project is designed with subaqueous lines to be buried at least three feet below the design or actual bottom, whichever is deeper, of a canal and other dredged waterway or the natural bottom of streams, rivers, estuaries, bays, and other natural water bodies; or if it is not practicable to design the project with less than three-foot minimum cover, alternative construction features (e.g. a concrete cap, sleeve, or some other properly engineered device to insure adequate protection of the line) are described in Part II.C. [62-604.400(2)(k)1., F.A.C., and RSWF 36.11] Χ 30. Specifications require permanent warning signs be placed on the banks of canals, streams, and rivers clearly identifying the nature and location (including depths below design or natural bottom) of subaqueous crossings and suitably fixed signs be placed at the shore, for subaqueous crossings of lakes, bays, and other large bodies of water, and in any area where anchoring is normally expected. [62-604.400(2)(k)2., F.A.C.] 31. Provisions for testing the integrity of subaqueous lines are specified. [62-604.400(2)(k)4., F.A.C.] Χ 32. Supports are designed for all joints in pipes utilized for aerial crossings and to prevent overturning and settlement. Expansion jointing is specified between above ground and below ground sewers and force mains. The design considers the impact of floodwaters and debris. [RSWF 37 and 48.5] Х 33. Aerial crossings are designed to maintain existing or required navigational capabilities within the waterway and to reserve riparian rights of adjacent property owners. [62-604.400(2)(k)3., F.A.C.] Pump Stations 34. In areas with high water tables, pump stations are designed to withstand flotation forces when empty. When siting the pump station, the design considers the potential for damage or interruption of operation because of flooding. Pump station structures and electrical and mechanical equipment are designed to be protected from physical damage by the 100-year flood. Pump stations are designed to remain fully operational and accessible during the 25-year flood unless lesser flood levels are appropriate based on local considerations, but not less than the 10-year flood. [62-604.400(2)(e), 35. Pump stations are designed to be readily accessible by maintenance vehicles during all weather conditions. [RSWF 41.2] 36. Wet well and pump station piping is designed to avoid operational problems from the accumulation of grit. [RSWF 41.3] 37. Dry wells, including their superstructure, are designed to be completely separated from the wet well. Common walls are designed to be gas tight. [RSWF 42,21] 38. The design includes provisions to facilitate removing pumps, motors, and other mechanical and electrical equipment. [RSWF 42.22]

Х 39. The design includes provisions for: 1) suitable and safe means of access for persons wearing self-contained breathing apparatus are provided to dry wells, and to wet wells; 2) stairway access to wet wells more than 4 feet deep containing either bar screens or mechanical equipment requiring inspection or maintenance; 3) for built-in-place pump stations, a stairway to the dry well with rest landings at vertical intervals not to exceed 12 feet; 4) for factory-built pump stations over 15 feet deep, a rigidly fixed landing at vertical intervals not to exceed 10 feet unless a manlift or elevator is provided; and 5) where a landing is used, a suitable and rigidly fixed barrier to prevent an individual from falling past the intermediate landing to a lower level. If a manlift or elevator is provided, emergency access is included in the design. [RSWF 42.23] 40. Specified construction materials are appropriate under conditions of exposure to hydrogen sulfide and other corrosive gases, greases, oils, and other constituents frequently present in wastewater. [RSWF 42.25] 41. Except for low-pressure grinder or STEP systems, multiple pumps are specified, and each pump has an individual intake. Where only two units are specified, they are of the same size. Specified units have capacity such that, with any unit out of service, the remaining units will have capacity to handle the design peak hourly flow. [RSWF 42.31 and 42.36] 42. Bar racks are specified for pumps handling wastewater from 30 inch or larger diameter sewers. Where a bar rack is specified, a mechanical hoist is also provided. The design includes provisions for appropriate protection from clogging for small pump stations. [RSWF 42.322] 43. Pumps handling raw wastewater are designed to pass spheres of at least 3 inches in diameter. Pump suction and discharge openings are designed to be at least 4 inches in diameter. [RSWF 42.33] (Note, this provision is not applicable to grinder pumps.) Х 44. The design requires pumps be placed such that under normal operating conditions they will operate under a positive suction head, unless pumps are suction-lift pumps. [RSWF 42.34] Χ 45. The design requires: 1) pump stations be protected from lightning and transient voltage surges; and 2) pump stations be equipped with lighting arrestors, surge capacitors, or other similar protection devices and phase protection. Note, pump stations serving a single building are not required to provide surge protection devices if not necessary to protect the pump station. [62-604.400(2)(b), F.A.C.] Χ 46. The design requires 1) electrical systems and components (e.g., motors, lights, cables, conduits, switch boxes, control circuits, etc.) in raw wastewater wet wells, or in enclosed or partially enclosed spaces where hazardous concentrations of flammable gases or vapors may be present, comply with the National Electrical Code requirements for Class I Group D. Division 1 locations; 2) electrical equipment located in wet wells be suitable for use under corrosive conditions; 3) each flexible cable be provided with a watertight seal and separate strain relief; 4) a fused disconnect switch located above ground be provided for the main power feed for all pump stations; 5) electrical equipment exposed to weather to meet the requirements of weatherproof equipment NEMA 3R or 4; 6) a 110 volt power receptacle to facilitate maintenance be provided inside the control panel for pump stations that have control panels outdoors; and 7) ground fault interruption protection be provided for all outdoor outlets. [RSWF 42.35] 47. The design requires a sump pump equipped with dual check valves be provided in dry wells to remove leakage or drainage with discharge above the maximum high water level of the wet well. [RSWF 42.37] 48. Pump station design capacities are based on the peak hourly flow and are adequate to maintain a minimum velocity of 2 feet per second in the force main. [RSWF 42.38] 49. The design includes provisions to automatically alternate the pumps in use. [RSWF 42.4] 50. The design requires: 1) suitable shutoff valves be placed on the suction line of dry pit pumps; 2) suitable shutoff and check valves be placed on the discharge line of each pump (except on screw pumps); 3) a check valve be located between the shutoff valve and the pump; 4) check valves be suitable for the material being handled; 5) check valves be placed on the horizontal portion of discharge piping (except for ball checks, which may be placed in the vertical run); 6) all valves be capable of withstanding normal pressure and water hammer; and 7) all shutoff and check valves be operable from the floor level and accessible for maintenance. [RSWF 42.5] 51. The effective volume of wet wells is based on design average flows and a filling time not to exceed 30 minutes unless the facility is designed to provide flow equalization. The pump manufacturer's duty cycle recommendations were utilized in selecting the minimum cycle time. [RSWF 42.62]

52. The design requires wet well floors have a minimum slope of 1 to 1 to the hopper bottom and the horizontal area of hopper bottoms be no greater than necessary for proper installation and function of the inlet. [RSWF 42.63]

X	53.	For covered wet wells, the design provides for air displacement to the atmosphere, such as an inverted "j" tube or other means. [RSWF 42.64]
X	54.	The design provides for adequate ventilation all pump stations; mechanical ventilation where the dry well is below the ground surface; permanently installed ventilation if screens or mechanical equipment requiring maintenance or inspection are located in the wet well. Pump stations are designed with no interconnection between the wet well and dry well ventilation systems. [RSWF 42.71]
<u>X</u>	55.	The design requires all intermittently operated ventilation equipment to be interconnected with the respective pit lighting system and the manual lighting/ventilation switch to override the automatic controls. [RSWF 42.73]
X	56.	The design requires the fan wheels of ventilation systems be fabricated from non-sparking material and automatic heating and dehumidification equipment be provided in all dry wells. [RSWF 42.74]
<u>X</u>	57.	If wet well ventilation is continuous, design provides for at least 12 complete 100% fresh air changes per hour; if wet well ventilation is intermittent, design provides for at least 30 complete 100% fresh air changes per hour; and design requires air to be forced into wet wells by mechanical means rather than solely exhausted from the wet well. [RSWF 42.75]
<u>X</u>	58.	If dry well ventilation is continuous, design provides at least 6 complete 100% fresh air changes per hour; and dry well ventilation is intermittent, design provides for at least 30 complete 100% fresh air changes per hour, unless a system of two speed ventilation with an initial ventilation rate of 30 changes per hour for 10 minutes and automatic switch over to 6 changes per hour is used to conserve heat. [RSWF 42.76]
X	59.	Pump stations are designed and located on the site to minimize adverse effects from odors, noise, and lighting. [62-604.400(2)(c), F.A.C.]
<u> </u>	60.	The design requires pump stations be enclosed with a fence or otherwise designed with appropriate features to discourage the entry of animals and unauthorized persons. Posting of an unobstructed sign made of durable weather resistant material at a location visible to the public with a telephone number for a point of contact in case of emergency is specified. [62-604.400(2)(d), F.A.C.]
X	61.	The design requires suitable devices for measuring wastewater flow at all pump stations. Indicating, totalizing, and recording flow measurement are specified for pump stations with a 1200 gpm or greater design peak flow. [RSWF 42.8]
X	62.	The project is designed with no physical connections between any potable water supplies and pump stations. If a potable water supply is brought to a station, reduced-pressure principle backflow-prevention assemblies are specified. [RSWF 42.9 and 62-555.30(4), F.A.C.]
		Additional Items to be Completed for Suction-Lift Pump Stations
<u>x</u>	63.	The design requires all suction-lift pumps to be either self-priming or vacuum-priming and the combined total of dynamic suction-lift at the "pump off" elevation and required net positive suction head at design operating conditions not to exceed 22 feet. For self-priming pumps, the design requires: 1) pumps be capable of rapid priming and repriming at the "lead pump on" elevation with self-priming and repriming accomplished automatically under design operating conditions; 2) suction piping not to exceed the size of the pump suction or 25 feet in total length; and 3) priming lift at the "lead pump on" elevation to include a safety factor of at least 4 feet from the maximum allowable priming lift for the specific equipment at design operating conditions. For vacuum-priming pump stations, the design requires dual vacuum pumps capable of automatically and completely removing air from the suction-lift pumps and the vacuum pumps be adequately protected from damage due to wastewater. [RSWF 43.1]
X	64.	The design requires: 1) suction-lift pump equipment compartments to be above grade or offset and to be effectively isolated from the wet well to prevent a hazardous and corrosive sewer atmosphere from entering the equipment compartment; 2) wet well access not to be through the equipment compartment and to be at least 24 inches in diameter; 3) gasketed replacement plates be provided to cover the opening to the wet well for pump units to be remove for service; and 4) no valving be located in the wet well. [RSWF 43.2]

Additional Items to be Completed for Submersible Pump Stations

	65.	Submersible pumps and motors are designed specifically for raw wastewater use, including totally submerged operation during a portion of each pump cycle and to meet the requirements of the National Electrical Code for such units. Provisions for detecting shaft seal failure or potential seal failure are included in the design. [RSWF 44.1]
	66.	The design requires submersible pumps be readily removable and replaceable without dewatering the wet well or disconnecting any piping in the wet well. [RSWF 44.2]
<u>X</u>	67.	In submersible pump stations, electrical supply, control, and alarm circuits are designed to provide strain relief; to allow disconnection from outside the wet well; and to protect terminals and connectors from corrosion by location outside the wet well or through use of watertight seals. [RSWF 44.31]
<u> </u>	68.	In submersible pump stations, the design requires the motor control center to be located outside the wet well, readily accessible, and protected by a conduit seal or other appropriate measures meeting the requirements of the National Electrical Code, to prevent the atmosphere of the wet well from gaining access to the control center. If a seal is specified, the motor can be removed and electrically disconnected without disturbing the seal. The design requires control equipment exposed to weather to meet the requirements of weatherproof equipment NEMA 3R or 4. [RSWF 44.32]
<u>X</u>	69.	In submersible pump stations, the design requires: 1) pump motor power cords be flexible and serviceable under conditions of extra hard usage and to meet the requirements of the National Electrical Code standards for flexible cords in wastewater pump stations; 2) ground fault interruption protection be used to de-energize the circuit in the event of any failure in the electrical integrity of the cable; and 3) power cord terminal fittings be corrosion-resistant and constructed in a manner to prevent the entry of moisture into the cable, provided with strain relief appurtenances, and designed to facilitate field connecting. [RSWF 44.33]
<u>X</u>	70.	In submersible pump stations, the design requires all shut-off and check valves be located in a separate valve pit. Provisions to remove or drain accumulated water from the valve pit are included in the design. [RSWF 44.4]
		Emergency Operations for Pump Stations
<u>×</u>	71.	Pump stations are designed with an alarm system which activates in cases of power failure, sump pump failure, pump failure, unauthorized entry, or any cause of pump station malfunction. Pump station alarms are designed to be telemetered to a facility that is manned 24 hours a day. If such a facility is not available and a 24-hour holding capacity is not provided, the alarm is designed to be telemetered to utility offices during normal working hours and to the home of the responsible person(s) in charge of the lift station during off-duty hours. Note, if an audio-visual alarm system with a self-contained power supply is provided in lieu of a telemetered system, documentation is provided in Part II.(5)BC. showing an equivalent level of reliability and public health protection. [RSWF 45]
<u> </u>	72.	The design requires emergency pumping capability be provided for all pump stations. For pump stations that receive flow from one or more pump stations through a force main or pump stations discharging through pipes 12 inches or larger, the design requires uninterrupted pumping capability be provided, including an in-place emergency generator. Where portable pumping and/or generating equipment or manual transfer is used, the design includes sufficient storage capacity with an alarm system to allow time for detection of pump station failure and transportation and connection of emergency equipment. [62-604.400(2)(a)1. and 2., F.A.C., and RSWF 46.423 and 46.433]
<u>X</u>	73.	The design requires: 1) emergency standby systems to have sufficient capacity to start up and maintain the total rated running capacity of the station, including lighting, ventilation, and other auxiliary equipment necessary for safety and proper operation; 2) special sequencing controls be provided to start pump motors unless the generating equipment has capacity to start all pumps simultaneously with auxiliary equipment operating; 3) a riser from the force main with rapid connection capabilities and appropriate valving be provided for all pump stations to hook up portable pumps; and 4) all pump station reliability design features be compatible with the available temporary service power generating and pumping equipment of the authority responsible for operation and maintenance of the collection/transmission system. [62-604.400(2)(a)3., F.A.C., and RSWF 46.431]
X	74.	The design provides for emergency equipment to be protected from operation conditions that would result in damage to

the equipment and from damage at the restoration of regular electrical power. [RSWF 46.411, 46.417, and 46.432]

X	75.	For permanently-installed internal combustion engines, underground fuel storage and piping facilities are designed in accordance with applicable state and federal regulations; and the design requires engines to be located above grade with adequate ventilation of fuel vapors and exhaust gases. [RSWF 46.414 and 46.415]				
<u> </u>	76.	For permanently-installed or portable engine-driven pumps are used, the design includes provisions for manual start-up. [RSWF 46.422]				
<u> </u>	77.	Where independent substations are used for emergency power, each separate substation and its associated transmission lines is designed to be capable of starting and operating the pump station at its rated capacity. [RSWF 46.44]				
		Force Mains				
LR —	78.	Force mains are designed to maintain, at design pumping rates, a cleansing velocity of at least 2 feet per second. The minimum force main diameter specified for raw wastewater is not less than 4 inches. [RSWF 48.1]				
<u> </u>	79.	The design requires: 1) branches of intersecting force mains be provided with appropriate valves such that one branch may be shut down for maintenance and repair without interrupting the flow of other branches; and 2) stubouts on force mains, placed in anticipation of future connections, be equipped with a valve to allow such connection without interruption of service. [62-604.400(2)(f), F.A.C.]				
X	80.	The design requires air relief valves be placed at high points in the force main to prevent air locking. [RSWF 48.2]				
LR_	81.	Specified force main pipe and joints are equal to water main strength materials suitable for design conditions. The force main, reaction blocking, and station piping are designed to withstand water hammer pressures and stresses associated with the cycling of wastewater pump stations. [RSWF 48.4]				
	82.	82. When the Hazen and Williams formula is used to calculate friction losses through force mains, the value for "C" is 100 for unlined iron or steel pipe for design. For other smooth pipe materials, such as PVC, polyethylene, lined ductile iron, the value for C does not exceed 120 for design. [RSWF 48.61]				
LR —	83.	Where force mains are constructed of material, which might cause the force main to be confused with potable water mains, specifications require the force main to be clearly identified. [RSWF 48.7]				
LR	84.	Leakage tests for force mains are specified including testing methods and leakage limits. [RSWF 48.8]				
*RSWF	= Red	commended Standards for Wastewater Facilities (1997) as adopted by rule 62-604.300(5)(g), F.A.C.				
B. Ext	olanat	ion for Requirements or Standards Marked "X" in II(5)A. Above (Attach additional sheets if necessary):				
	SEE ATTACHED SHEET.					
SL	_ ^	TROHED SHEET.				
		DART HI CERTIFICATIONS				
(1) Col	lectio	PART III - CERTIFICATIONS on/Transmission System Permittee				
l, th	e und	ersigned owner or authorized representative* of University of Miami				
am : belie prep oper Flor	fully a ef. I a nare a ration ida to	aware that the statements made in this application for a construction permit are true, correct and complete to the best of my knowledge and agree to retain the design engineer or another professional engineer registered in Florida, to conduct on-site observation of construction, to certification of completion of construction, and to review record drawings for adequacy. Further, I agree to provide an appropriate and maintenance manual for the facilities pursuant to Rule 62-604.500(4), F.A.C., and to retain a professional engineer registered in examine for to prepare if desired) the manual. I am fully aware that Department approval must be obtained before this project is placed to for any purpose other than testing for leaks and testing equipment operation.				
Sig	med	Date 9.21.21				
Na *411		Jessica Brumley Title Vice President, Facilities Operations letter of authorization.				
7111	uun u	where of manner realities.				

I, the unde	rsigned owner	or authorized re	presentative* of	University of N	/liami		cert	ify that we v	rill he the
Owner of	this project aft	er it is placed i	nto service. I ago	ee that we will oper	ate and maintain	ilds project	in a mar	nner that wil	l comply with
applicable	Department ru	les Also I agre	e that we will pron	optly notify the Depa	rtment if we sell	or legally trai	nsfer ow	nership of th	is project.
		61		•				•	
	1,,,	7 1111	1						
Signed	yun	1:11/000	X	Date	7.21	5.21			
Name	Jessica Bru	mley /		Title	Vice Presid	lent, Facilit	ies Op	erations	
Company	Name Un	iversity of M	jemi						
Address	1535 Leva	ante Avenue							
City C	oral Gables			State	Florida		Zip	33146	
Telephone	305-2	284-4706	Fax		Email		-		
	letter of author			-	-				
Wastewate	r Facility Ser	ving Collection	n/Transmission S	Svstem**					
		_		•					
If this is a t	Notice of Intent	to use a general	l permit, check her	'e ;					
☐ The un	dersigned own	er or authorized	l representative* of	fthe				wastew	ater facility
hereby	certifies that t	he above referer	nced facility has th	e capacity to receive	the wastewater	generated by t	he propo	sed collection	on system: is it
compl	iance with the	capacity analysi:	s report requireme	nts of Rule 62-600,4	05, F.A.C.; is no	t under a Der	partmeni	t order assoc	iated with
efflue:	nt violations o	the ability to t	reat wastewater ac	lequately; and will p	rovide the neces	sary treatment	t and dis	posal as requ	iired by
Chapt	er 403, F.S., an	d applicable De	partment rules,						
			-						
If this is an	application for	an individual po	ermit, check one:						
		-	ermit, check one:						
⊠The un	dersigned own	er or authorized	representative* of	the Central L	District WWT			wastewa	er facility
The un	dersigned own	er or authorized the above refere	representative* of enced facility has	and will have adequ	ate reservo capa	to accept	the flow	wastewa v from this p	er facility roject and wil
The un	dersigned own	er or authorized the above refere	representative* of enced facility has	Fithe Central L and will have adequald by Chapter 403, F.	ate reservo capa	to accept	the flow	wastewa v from this p	er facility roject and wil
The un	dersigned own	er or authorized the above refere	representative* of enced facility has	and will have adequ	ate reservo capa	to accept	the flow	wastewa v from this p	er facility roject and wil
The un hereby provid	dersigned own certifies that t e the necessary	er or authorized the above refere treatment and d	representative* of need facility has a disposal as required	and will have adequ d by Chapter 403, F.	ate reservo capa	to accept	the flow	v from this p	roject and wil
The un hereby provid	dersigned own certifies that t e the necessary dersigned owne	er or authorized the above refere treatment and d	representative* of anced facility has a disposal as required representative* of	and will have adequal by Chapter 403, F.	ate reservo capa S., and applicabl	ally to accept c D epartment	trules.	v from this p	roject and wil
The un hereby provide	dersigned own certifies that to the necessary dersigned own certifies that to the reserve caps	er or authorized the above refere treatment and of er or authorized he above referen- acity to accept to	representative* of anced facility has a disposal as required representative* of need facility currents the flow from this	and will have adequed by Chapter 403, F. The not have, but have have have have have have have have	ate reserve capa S., and applicabl out will have pric	ally to accept c Department or to placing t	trules.	v from this p wastewa	roject and will er facility into operation
The un hereby provide	dersigned own certifies that to the necessary dersigned own certifies that to the reserve caps	er or authorized the above refere treatment and d er or authorized the above referen	representative* of anced facility has a disposal as required representative* of need facility currents the flow from this	and will have adequal by Chapter 403, F.	ate reserve capa S., and applicabl out will have pric	ally to accept c Department or to placing t	trules.	v from this p wastewa	roject and will er facility into operation
The un hereby provid The un hereby adequate 403, F	dersigned own certifies that the e the necessary dersigned own certifies that the te reserve caps S., and applica	er or authorized the above refere treatment and d er or authorized he above referent acity to accept to able Department	representative* of anced facility has a disposal as required representative* of need facility current the flow from this rules.	and will have adequed by Chapter 403, F. The ntly does not have, be project and will pro-	ate reserve capar S., and applicable out will have price vide the necessa	ally to accept c Department or to placing t	trules.	v from this p wastewa	roject and will er facility into operation
The un hereby provid The un hereby adequa 403, F	dersigned owner certifies that to the necessary dersigned owner certifies that the reserve capital streament Plant reatment Plant	er or authorized the above refere treatment and of er or authorized the above referent acity to accept to the Department	representative* of anced facility has a disposal as required representative* of need facility current the flow from this rules.	and will have adequed by Chapter 403, F. The not have, but have have have have have have have have	ate reserve capar S., and applicable out will have price vide the necessa	ally to accept c Department or to placing t	trules.	v from this p wastewa	roject and will er facility into operation
The unhereby provided. The unhereby adequated 403, F. Name of T. County	dersigned owner certifies that to the necessary dersigned owner certifies that to the reserve capacter, and application of the certifies that the reserve capacter, and application of the certifies that the minimal of the certifies that the certifies that the reserve capacter of the certifies that the certifies t	er or authorized the above refere treatment and of er or authorized the above referen- acity to accept to table Department Serving Project	representative* of enced facility has a disposal as required representative* of need facility currenthe flow from this rules.	and will have adequed by Chapter 403, F. The ntly does not have, be project and will pro-	ate reserve capar S., and applicable out will have price vide the necessa	city to accept c Department or to placing t ry izeatment a	trules. The propo	wastewal wastewal osed project osal as requi	roject and wil er facility into operation red by Chapter
The unhereby provided The unhereby adequated 403, F. Name of T. County DEP permits	dersigned own certifies that the dersigned own certifies that the te reserve capa S., and applica reatment Plant Miami Dade it number	er or authorized the above refere treatment and of the above referencity to accept the Department Serving Project of the Document of the Docum	representative* of enced facility has a disposal as required representative* of need facility currentle flow from this rules. Central O5	and will have adequated by Chapter 403, F. The ntly does not have, be project and will pro-	ate reserve capar S., and applicable out will have price vide the necessa City Expiral	ally to accept c Department or to placing t	the proposed disposed	wastewal used project osal as requi	roject and will er facility into operation red by Chapter
The unhereby provided The unhereby adequated 403, F. Name of T. County DEP perm. Maximum.	dersigned own certifies that the the necessary dersigned own certifies that the the reserve caps S., and applicate freatment Plant Miami Dade it number monthly avera	er or authorized the above refere treatment and of the above refered to accept to the Department of Serving Project of FL 002480 ge daily flow over the above refered to the Department of Serving Project of the Department of Serving Project of The O02480 ge daily flow over the above refered to the above	representative* of anced facility has a disposal as required representative* of need facility currente flow from this rules. t Central Control Contro	and will have adequated by Chapter 403, F. The Ithe Ithe project and will propert and will be a w	ate reserve capa S., and applicable out will have price vide the necessa City Expiral	city to accept c Department or to placing t ry izeatment a	the propured dispose	wastewal osed project osal as requi	er facility into operation red by Chapter
The unhereby provided The unhereby adequates 403, F. Name of T. County DEP perm. Maximum. Maximum.	dersigned owns certifies that to the the necessary dersigned owns certifies that to the reserve caps S., and applica freatment Plant Miami Dade it number monthly avera three-month avera	er or authorized the above refere treatment and of the above referencity to accept the European Project Serving Project FL 002480 ge daily flow overage daily flow ov	representative* of enced facility has a disposal as required representative* of need facility currentle flow from this rules. Central O5	and will have adequated by Chapter 403, F. The Ithe Ithe project and will propert and will be a w	out will have privide the necessary City Expiral 140.50 MGD 127.98	airy to accept c Department or to placing t ry treatment a int Date	the propured disposers Mon	wastewal used project usal as requi	er facility into operation red by Chapter March 20
The unhereby provided The unhereby adequated 403, F. Name of T. County DEP perm. Maximum. Maximum. Current perm.	dersigned owner certifies that the the necessary dersigned owner certifies that the reserve caps S., and application of the certifies that the reserve caps S., and application of the certifies that the manufacture of the certifies that the certifies the certifies the certifies that the certifies the	er or authorized the above refere treatment and of the above referencity to accept the accept to accept the Department Serving Project FL 002480 ge daily flow overage daily flow overage daily flow y	representative* of anced facility has a disposal as required representative* of need facility currently facility	and will have adequated by Chapter 403, F. The ntly does not have, by project and will properties and will properties the period month period	out will have privide the necessary City Expiral 140.50 MGD 127.98 MGD	airy to accept c Department or to placing t ry treatment a int Date	the propured disposers Mon	wastewal osed project osal as requi	er facility into operation red by Chapter March 20
The unhereby provided The unhereby adequated 403, F. Name of T. County DEP perm. Maximum. Maximum. Current perm.	dersigned owner certifies that the the necessary dersigned owner certifies that the reserve caps S., and application of the certifies that the reserve caps S., and application of the certifies that the manufacture of the certifies that the certifies the certifies the certifies that the certifies the	er or authorized the above refere treatment and of the above referencity to accept the above project ble Department. Serving Project FL 002480 ge daily flow overage daily flow overage daily flow yecommitments (in	representative* of anced facility has a disposal as required representative* of need facility currente flow from this rules. t Central Control Contro	and will have adequated by Chapter 403, F. The Ithe Ithe project and will propert and will be a w	out will have privide the necessary City Expiral 140.50 MGD 127.98 MGD	airy to accept c Department or to placing t ry treatment a int Date	the propured disposers Mon	wastewal used project usal as requi	er facility into operation red by Chapte March 20 March 20
The unhereby provided The unhereby adequated 403, F. Name of T. County DEP perm. Maximum. Maximum. Current perm.	dersigned owns certifies that to the the necessary dersigned owns certifies that to the reserve caps S., and applica freatment Plant Miami Dade it number monthly avera three-month avera	er or authorized the above refere treatment and deter or authorized he above refered acity to accept to ac	representative* of anced facility has a disposal as required representative* of need facility currente flow from this rules. Central Control of the last 12 monwover the last 12	and will have adequated by Chapter 403, F. the ntly does not have, to project and will pro- al District WWTF th period the project against treatment	out will have privide the necessary City Expiral 140.50 MGD 127.98 MGD	airy to accept c Department or to placing t ry treatment a int Date	the propured disposers Mon	wastewal used project usal as requi	er facility into operation red by Chapte March 20 March 20
The unhereby provided The unhereby adequated adds, For the county DEP perm Maximum Maximum Current per Current out	dersigned owns certifies that to the the necessary dersigned owns certifies that to the reserve caps S., and applica freatment Plant Miami Dade it number monthly avera three-month avera	er or authorized the above refere treatment and deter or authorized he above refered acity to accept to ac	representative* of anced facility has a disposal as required representative* of need facility currente flow from this rules. Central Control of the last 12 monwover the last 12	and will have adequated by Chapter 403, F. The The Ithe Ithe Ithe Ithe Ith project and will project a	out will have prievide the necessary City Expiral 140.50 MGD 127.98 MGD plant capacity:	in Date	the propured disposers Mon	wastewal used project usal as requi	er facility into operation red by Chapter March 20
The unhereby provided The unhereby adequated 403, F. Name of T. County DEP perm. Maximum. Maximum. Current per Current out.	dersigned owns certifies that to the the necessary dersigned owns certifies that to the reserve caps S., and applica freatment Plant Miami Dade it number monthly avera three-month avera three-month avera threatment flow Rolando I	er or authorized the above refere treatment and deter or authorized he above refered acity to accept the above refered acity to accept the Department Serving Project of FL 002480 ge daily flow overage da	representative* of anced facility has a disposal as required representative* of need facility currente flow from this rules. t Central Control Contro	and will have adequated by Chapter 403, F. The Ithe Ithe Ithe Ithe Ithe Ithe Ith project and will pro Ith period Ith	out will have privide the necessary City Expiral 140.50 MGD 127.98 MGD	in Date	the propured disposers Mon	wastewal used project usal as requi	er facility into operation red by Chapte March 20 March 20
The unhereby provided The unhereby adequated adolors. Name of The County DEP perm Maximum Maximum Current per Current out.	dersigned owns certifies that to the the necessary dersigned owns certifies that to the reserve caps S., and applica freatment Plant Miami Dade it number monthly avera three-month avera three-month avera threatment flow Rolando I	er or authorized the above refere treatment and deter or authorized he above refered acity to accept to ac	representative* of anced facility has a disposal as required representative* of need facility currente flow from this rules. Central Control of the last 12 monwover the last 12	and will have adequated by Chapter 403, F. The The Ithe Ithe Ithe Ithe Ith project and will project a	out will have prievide the necessary City Expiral 140.50 MGD 127.98 MGD plant capacity:	in to placing to be placing to placing to placing to placing to placing the interest of the in	Dec Mon	wastewal used project usal as requi	er facility into operation red by Chapter March 20 March 20 ADF
The unhereby provided The unhereby adequated 403, F. Name of T. County DEP perm. Maximum. Maximum. Current perm. Current out. Signed. Name. Address.	dersigned owner certifies that the the necessary dersigned owner certifies that the reserve cape S., and application of the second of the seco	er or authorized the above refere treatment and of the above refere acity to accept to the Department Serving Project of FL 002480 ge daily flow overage daily flow o	representative* of anced facility has a disposal as required representative* of need facility currente flow from this rules. Central Control of the last 12 monwover the last 12	and will have adequated by Chapter 403, F. The Ithe Ithe Ithe Ithe Ithe Ithe Ith project and will pro Ith period Ith	out will have privide the necessary City Expiral 140.50 MGD 127.98 MGD 143.0 MGD plant capacity:	in to placing to be placing to placing to placing to placing to placing the interest of the in	Dec Mon	wastewal used project usal as requi	er facility into operation red by Chapter March 20 March 20 ADF
The unhereby provided The unhereby adequated adolors. Name of The County DEP perm Maximum Maximum Current per Current out.	dersigned owner certifies that the the necessary dersigned owner certifies that the reserve cape S., and application of the second of the seco	er or authorized the above refere treatment and deter or authorized he above refered acity to accept the above refered acity to accept the Department Serving Project of FL 002480 ge daily flow overage da	representative* of anced facility has a disposal as required representative* of need facility currente flow from this rules. Central Control of the last 12 monwover the last 12	and will have adequated by Chapter 403, F. The Ithe Ithe Ithe Ithe Ithe Ithe Ith project and will pro Ith period Ith	out will have privide the necessary City Expiral 140.50 MGD 127.98 MGD 143.0 MGD plant capacity:	in to placing to be placing to placing to placing to placing to placing the interest of the in	Dec Mon	wastewal used project usal as requi	er facility into operation red by Chapter March 20 March 20 ADF

^{**} If there is an intermediate collection system, a letter shall be attached certifying that the intermediate downstream collection system has adequate reserve capacity to accept the flow from this project.

(2) Owner of Collection/Transmission System					
I, the undersigned owner or authorized representative* of Owner of this project after it is placed into service. I agree that we applicable Department rules. Also I agree that we will promptly notify		e and			l comply with
On as Assured					
Signed Jorge Acevedo	Date	5/2/2	022		
Name Jorge Acevedo	Title	Utilit	es Director		
Company Name City of Coral Gables	<u> </u>				_
Address 2800 SW 72nd Ave					
City Miami	State	FL		Zip 33155	
Telephone 305-460-5000 Fax	 Et	mail	jacevedo2@cor	algables.com	
* Attach a letter of authorization.					
(3) Wastewater Facility Serving Collection/Transmission System**					
If this is a Notice of Intent to use a general permit, check here:					
The undersigned owner or authorized representative* of the				wastew	ater facility
hereby certifies that the above referenced facility has the capacity compliance with the capacity analysis report requirements of Rule effluent violations or the ability to treat wastewater adequately; Chapter 403, F.S., and applicable Department rules.	e 62-600.40	5, F.A.	C.; is not under a De	partment order assoc	iated with
If this is an application for an individual permit, check one:					
The undersigned owner or authorized representative* of the hereby certifies that the above referenced facility has and will be provide the necessary treatment and disposal as required by Chap		te resei	ve capacity to accept	the flow from this p	ter facility project and will
The undersigned owner or authorized representative* of the				wactowa	ter facility
hereby certifies that the above referenced facility currently does a adequate reserve capacity to accept the flow from this project an 403, F.S., and applicable Department rules. Name of Treatment Plant Serving Project Central District	nd will prov			the proposed project	into operation,
	<u> </u>		City		
County Miami Dade DEP permit number FL 0024805			Expiration Date	Dec 31 2025	
Maximum monthly average daily flow over the last 12 month period	140	50	MGD	Month(s) used	March 2022
Maximum three-month average daily flow over the last 12 month per			MGD	Month(s) used	March 2022
Current permitted capacity	143		MGD XAAD		
Current outstanding flow commitments (including this project) against					
Rolando M Roque Signed Rolando M Roque Oli Clinifolando M Roque Ol	Date	<u>5/1</u> 2	2/2022		
Name Rolando Roque P.E.	Title	Acti	ng Chief Planning a	and Modeling Div.	
Address 3071 SW 38 Ave	_				
City Miami	State	FL		Zip 33146	
Telephone 786.552.8129 Fax		Email	rolando.roque@	_	

^{*} Attach a letter of authorization.

** If there is an intermediate collection system, a letter shall be attached certifying that the intermediate downstream collection system has adequate $reserve\ capacity\ to\ accept\ the\ flow\ from\ this\ project.$

(4) Professional Engineer Registered in Florida

I, the undersigned professional engineer registered in Florida, certify the documents for this project; that plans and specifications for this project collection/transmission systems; and that, to the health of him who we requirements of Chapter 62-604, F.A.C. No. 54858 No. 54858		
Name Leonardo Rodriguez	Florida Registration No.	54858
Company Name Langan Engineering & Environmental S	 Services	
Address 15150 NW 79th Ct. Suite 200		
City Miami Lakes	State FL	Zip <u>33016</u>
Telephone 786-264-7200 Fax 786-264-7201 Em	ail <u>Irodriguez@langan.cor</u>	n
Portion of Project for Which Responsible Entire Project		
		(Afffix Seal) Signed
Name	Florida Registration No.	
Company Name		
Address City	State	Zip
Telephone Fax Em		
Portion of Project for Which Responsible		
, <u> </u>		
		(Afffix Seal)
		Signed
Name Company Name Address	Florida Registration No.	
City	State	Zip
Telephone Fax Em		v.h
Portion of Project for Which Responsible		

FDEP Collection/Transmission System Design Information "X" Explanations

Item 7 – There is no public gravity sewer associated with this project, however, all gravity sewer mains are no less than 8 inches in diameter.

Item 11 - No proposed sewer design with velocities greater than 15 fps for this project.

Item 12 – No proposed sewer with a slope greater than 20% for this project.

Item 19 – No inverted siphons are proposed.

Item 26 – No electrical equipment proposed within proposed manholes.

Items 27 - 33 – No stream crossings are proposed for this project.

Items 34 - 77 - No pump stations are proposed for this project.

Item 79 – No intersecting force main proposed under this project.

Item 80 – No Air Release valve proposed under this project.

\\langan.com\\data\\MI\\data6\\300230601\\Project Data_Discipline\Site Civi\\Permit Apps\\DERM WW\\FDEP Wastewater Collection-Checklist.docxp

Peak Factor Calculations

Peak Factor =
$$\frac{18 + (population in thousands)^{1/2}}{4 + (population in thousands)^{1/2}}$$

Poulation In Thousands = Total Average Daily Gallonage/100,000

The Plaza Coral Gable	es
Total Average Daily Gallonage	132,495.8
Population In Thousands	1.324958
PEAK FACTOR	3.72