



January 20, 2026

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

Re: Outside Sewer Connection Agreement
Soffer Indoor Practice Facility Expansion
5851 San Amaro Dr.
PWKS-25-02-3289

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-UM17Q. This request includes the existing Soffer Indoor Practice Facility building as well as the expansion of the facility that is currently under construction.

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: 5851 San Amaro Dr., Coral Gables, FL 33146
- Legal Description: All of the "Carol Soffer Indoor Practice Facility" as now existing, laid out and in use, the same being a portion of each of the following: Tr. 1, 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 letters from Miami-Dade County in **Exhibit A**, and DERM approved plans in **Exhibit B**.
 - Existing Building: Soffer Indoor Practice Facility
81,817 SF Indoor Practice Facility = 1,450 GPD
 - Proposed Use: Indoor Practice Facility expansion and new weightroom
24,812 SF expansion @ 10 GPD / 100 SF = 2,481 GPD
 - **Total Facility Flow: 3,931 GPD**
 - o Maximum flow: 11.95 GPM
 - o Minimum: 0 GPD
 - o Average daily flow: 3,931 GPD
 - o Previous daily flow: 0 GPD
 - o Peak daily flow factor for Existing Facility: 4.40
 - o Peak daily flow factor for Addition: 4.37
 - o New Peak daily flow: 17,212 GPD
- See Exhibit C for calculations.**

Total Connection Fee per City Code 78-102 = \$36,145.20

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 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 sewerage 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,

Deborah Hunley
 Assistant Vice-President, Design and Construction
 Facilities Operations & Planning
 University of Miami

Encl.

Exhibit A
Miami-Dade Water and Sewer Authority
Allocation Letters



9/29/2017

Issued Date: 9/25/2017

UNIVERSITY OF MIAMI
PO Box 248106
Coral Gables, FL 33124

Cristina Cabarrocas
8950 SW 117th St
Miami, FL 33176

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: Indoor Practice Facility / M2017016436
Project Location: 5821 SAN AMARO DR, CORAL GABLES, FL 33146
Previous Use: Vacant.
Proposed Use: 81,817 SF Indoor Practice Facility with max occupancy of 290 persons.
Previous Flow: 0 GPD
Total Calculated Flow: 1450 GPD
Allocated Flow (additional sewer flows): 1450 GPD
Sewer Utility: UNIVERSITY OF MIAMI
Receiving Pump Station: 77 - UM12L

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:

PERMITTING, CONSTRUCTION, COMPLETION AND CERTIFICATION OF THE SANITARY SEWER EXTENSION REQUIRED FOR THIS PROJECT. 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.

PERMITTING, COMPLETION AND CERTIFICATION OF THE IMPROVEMENTS REQUIRED TO UPGRADE PUMP STATION 77-UM12L. 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, BY MEANS OF AN ESTOPPEL NOTICE.

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) 372-6789.

Sincerely,

Lee N. Hefty
Director of Environmental Resources Management



For/By: _____
Frank Lezcano, Engineer III - Environmental Plan Review.
Department of Regulatory and Economic Resources.

Sanitary Sewer Certification of Adequate Capacity Project Summary:

Owner's Name: UNIVERSITY OF MIAMI
Owner's Address: PO Box 248106
Coral Gables, FL 33124

EEOS Allocation Number: 2017-ALLOCATION-02697

Project: Indoor Practice Facility / M2017016436

Proposed Use: 81,817 SF Indoor Practice Facility with max occupancy of 290 persons.

Pump Station: 77-UM12L
Projected NAPOT: 2.44
Proposed Projected NAPOT: 16.08

Folio	Lot/Block Bldg Proc #	Address	Flow (GPD)	Sewer Status	Sewer Cert Date	Sewer Recert Date	Exp. Date
0341300150010	/ BL17071617	5821 SAN AMARO DR, CORAL GABLES, FL 331	1,450	APP	9/25/2017		
Total:			1,450	GPD			

3/25/2025

Issued Date: 3/25/2025

UNIVERSITY OF MIAMI MAIN CAMPUS PB 46-81
5811 SAN AMARO DR/5513 SAN AMARO DR
CORAL GABLES, FL

RICKY BOBBY
, FL

RE: Sanitary Sewer Certification of Adequate Capacity

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

Project Name: UM CAROL SOFFER IPF EXPANSION & WEIGHTROOM/M2025009320
Project Location: 5851 SAN AMARO DR, CORAL GABLES, FL
Previous Use: VACANT
Proposed Use: UM CAROL SOFFER INDOOR PRACTICE CENTER (IPF) EXPANSION & WEIGHT ROOM
(24,812 SF) @ 10 GPD/100 SF (2,481 GPD)
Previous Flow: 0 GPD
Total Calculated Flow: 2481 GPD
Allocated Flow (additional sewer flows): 2481 GPD
Sewer Utility: UNIVERSITY OF MIAMI
Receiving Pump Station: 77 - UM13M

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 certifies that adequate treatment and transmission capacity is available for the above described project, pursuant to the criterion stipulated in Appendix A of said Consent Decree.

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.

Be advised that this 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



For/By: _____
Yuly Hernandez, Engineer III - Environmental Plan Review.
Department of Regulatory and Economic Resources.

Exhibit B
Approved Plans

GENERAL NOTES AND SPECIFICATIONS

- I. APPLICABLE CODES:**
- ALL CONSTRUCTION AND MATERIALS SHALL CONFORM TO THE STANDARDS AND SPECIFICATIONS OF THE 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.
 - 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.
 - ALL CONSTRUCTION MATERIALS AND LABOR ASSOCIATED WITH THIS PROJECT SHALL CONFORM TO THE UNIVERSITY OF MIAMI BUILDING STANDARDS 2017 EDITION.
 - CONTRACTOR SHALL BE RESPONSIBLE FOR CREATING A "MAINTENANCE OF OPERATIONS" PLAN FOR APPROVAL BY UWS PROJECT MANAGER PRIOR TO THE COMMENCEMENT OF ANY DEMOLITION OR CONSTRUCTION ACTIVITIES.
 - ALL EXCAVATIONS TO COMPLY WITH THE TRENCH SAFETY ACT.
- II. ALL ELEVATIONS SHOWN ON THE CONSTRUCTION DRAWINGS ARE BASED ON THE NATIONAL GEODETIC VERTICAL DATUM OF 1988 (NGVD), UNLESS OTHERWISE NOTED.**
- TOPOGRAPHIC SURVEY SHOWN ON THESE PLANS ARE BASED ON THE SURVEY PREPARED BY WGI, INC. LAST REVISED ON OCTOBER 17, 2024 TITLED "TOPOGRAPHIC SURVEY OF FOOTBALL PRACTICE FIELD TURF REPLACEMENT", ON THE SURVEY PREPARED BY WGI, INC. LAST REVISED ON OCTOBER 22, 2024 TITLED "TOPOGRAPHIC SURVEY OF OUTDOOR BASKETBALL COURT", AND ON THE SURVEY PREPARED BY WGI, INC. LAST REVISED ON 12/12/2024 TITLED "TOPOGRAPHIC SURVEY OF IFF FORCE MAIN - CANAL CROSSING LOCATION".
 - EXISTING INFORMATION FROM GPS UTILITY FINDINGS MAP LAST REVISED ON 10/15/2024.

- PRECONSTRUCTION RESPONSIBILITIES:**
- 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. CONTRACTORS ARE DIRECTED, PRIOR TO BIDDING, TO CONDUCT ANY INVESTIGATIONS THEY DEEM NECESSARY TO ARRIVE AT THEIR OWN CONCLUSIONS REGARDING THE ACTUAL CONDITIONS THAT MAY BE ENCOUNTERED AND UPON WHICH THEIR BIDS WILL BE BASED.
 - UPON THE RECEIPT OF THE "NOTICE TO PROCEED", THE CONTRACTOR SHALL CONTACT THE ENGINEER OF RECORD AND ARRANGE A PRECONSTRUCTION CONFERENCE TO INCLUDE ALL INVOLVED CONTRACTORS, UTILITY OWNERS, THE OWNER AND THE ENGINEER OF RECORD.
 - 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.
 - THE CONTRACTORS SHALL COORDINATE WITH UTILITIES TO ARRANGE FOR RELOCATION AND TEMPORARY SUPPORT OF UTILITY FEATURES, ETC. AS NECESSARY TO COMPLETE THE WORK, IF APPLICABLE.
 - IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO LOCATE AND PROTECT ANY AND ALL EXISTING UTILITIES ON THIS PROJECT.
 - THE CONTRACTOR SHALL SECURE ALL UTILITY EASEMENTS (IF REQUIRED) TO BE SECURED PRIOR TO CONSTRUCTION.
 - 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 ENGINEER ASSUMES NO RESPONSIBILITY FOR THE FACILITIES SHOWN OR FOR ANY UTILITIES NOT SHOWN ON THE DRAWINGS. THE MIAMI-DADE COUNTY GABLES PUBLIC WORKS DEPARTMENT STANDARD DETAILS, DETAILS 1-2 AND 1-1-2A, "TRENCH DRAINS".

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

- VII. STORM DRAINAGE:**
- GENERAL:
 - CATCH BASIN GRATES AND 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.
 - ALL STORM DRAINAGE MATERIALS AND INSTALLATION SHALL CONFORM TO THE APPLICABLE CITY OF CORAL GABLES PUBLIC WORKS DEPARTMENT STANDARD SPECIFICATIONS INCLUDING, BUT NOT LIMITED TO, THE FOLLOWING:

SECTION	TITLE
310	EXCAVATION, TRENCHING AND BACKFILLING FOR PIPE STRUCTURES
320	DRAINAGE PIPE
 - ALL EXFILTRATION TRENCH SHALL BE AS PER STANDARD DETAIL SD 1.1 OF THE MIAMI-DADE COUNTY PUBLIC WORKS MANUAL, AND ALL GABLES PUBLIC WORKS DEPARTMENT STANDARD DETAILS, DETAILS 1-2 AND 1-1-2A, "TRENCH DRAINS".
 - EXFILTRATION TRENCH SHALL BE INSTALLED AT THE WIDTH, DEPTH AND ELEVATION SHOWN ON THE APPROVED CROSS SECTION DEPICTED ON THE PLANS. ANY CONFLICT WITH EXISTING OR PROPOSED UTILITIES SHALL IMMEDIATELY BE BROUGHT TO THE ATTENTION OF THE ENGINEER. ANY IMPROVEMENT MATERIAL ENCOUNTERED IN THE EXCAVATION FOR THE EXFILTRATION TRENCH SHALL BE REMOVED AS DIRECTED BY THE ENGINEER.
 - ALL DRAINAGE CATCH BASINS AND STRUCTURES SHALL BE PRECAST CONCRETE AS MANUFACTURED BY U.S. PRECAST CORPORATION OR APPROVED EQUAL.
 - THE TRENCH FILTER FABRIC SHALL BE SELECTED FROM THE LIST OF MANUFACTURERS AND FABRIC TYPES APPROVED BY THE MIAMI DADE COUNTY PUBLIC WORKS DEPARTMENT. THE FILTER FABRIC SHALL BE INSTALLED ON ALL SIDES AND TOP OF THE EXFILTRATION TRENCH. THE TOP SECTION OF THE MATERIAL SHALL BE LAPPED A MINIMUM OF 12 INCHES AND SHALL TAKE EXTREME CARE IN BACKFILLING TO AVOID BUNCHING OF THE FABRIC.
 - PERFORATED PIPE SHALL TERMINATE 4'-0" FROM THE DRAINAGE STRUCTURE. THE REMAINING 4'-0" SHALL BE NON-PERFORATED PIPE.
 - PROVIDE A MINIMUM PROTECTIVE COVER OF 24 INCHES OVER STORM SEWERS AND AVOID UNNECESSARY CROSSING BY HEAVY CONSTRUCTION VEHICLES DURING CONSTRUCTION.
 - THE CONTRACTOR SHALL PROTECT EXISTING AND COMPLETED DRAINAGE STRUCTURES AND EXFILTRATION SYSTEM FROM CONTAMINATION OF SILT AND CONSTRUCTION DEBRIS. PLACE PLYWOOD OR FILTER FABRIC BETWEEN THE FRAME AND INLET GRATE UNTIL CONSTRUCTION OPERATIONS ARE FINISHED. (SEE STORMWATER POLLUTION PREVENTION PLAN)

- IX. INSPECTION AND TESTING:**
- 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.
 - THE CONTRACTOR SHALL GIVE THE ENGINEER OF RECORD AT LEAST 48 HOURS ADVANCE NOTICE OF AND THE ENGINEER OF RECORD MUST BE PRESENT TO WITNESS THE FOLLOWING:
 - PRESSURE TESTING OF THE WATER DISTRIBUTION SYSTEM.
 - EXFILTRATION TEST OF THE SANITARY SEWER SYSTEM.
 - INSPECTION OF THE WATER, SEWER, PAVING, GRADING AND DRAINAGE.
 - IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO CONTACT ALL APPLICABLE REGULATORY AGENCIES FOR INSPECTION REQUIREMENTS.

- IV. SHOP DRAWINGS:**
- PRIOR TO THEIR CONSTRUCTION OR INSTALLATION, SHOP DRAWINGS SHALL BE SUBMITTED TO AND APPROVED BY THE ENGINEER OF RECORD FOR THE FOLLOWING ITEMS: WATER MAIN FITTINGS, VALVES, PIPES, CATCH BASIN, STORM MANHOLES AND ALL OTHER DRAINAGE STRUCTURES, DRAINAGE PIPE, BALLAST ROCK, EXFILTRATION TRENCH FILTER FABRIC, AND TRAFFIC PAINT, IN ADDITION, SOME STATES, 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:**
- TEMPORARY FACILITIES:
 - IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO ARRANGE FOR OR SUPPLY TEMPORARY WATER SERVICE, SANITARY FACILITIES, AND ELECTRICITY DURING CONSTRUCTION.
 - THE CONTRACTOR SHALL MAINTAIN AT LEAST ONE ACCESS ENTRANCE TO COMMERCIAL PROPERTIES AT ALL TIMES, IF APPLICABLE.
 - THE CONTRACTOR SHALL MAINTAIN A CLEAR PATH FOR ALL SURFACE WATER DRAINAGE STRUCTURES AND DITCHES DURING ALL PHASES OF CONSTRUCTION, IF APPLICABLE.
 - TRAFFIC REGULATION:
 - 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.I.T.C.D. AND MIAMI-DADE COUNTY PUBLIC WORKS DEPARTMENT.
 - ALL OPEN TRENCHES AND HOLES ADJACENT TO ROADWAYS OR WALKWAYS SHALL BE PROPERLY MARKED AND BARRICADED TO ASSURE THE SAFETY OF BOTH VEHICULAR AND PEDESTRIAN TRAFFIC.
 - NO TRENCHES OR HOLES NEAR WALKWAYS, IN ROADWAYS OR THEIR SHOULDERS ARE TO BE OPEN DURING NIGHTTIME HOURS WITHOUT EXPRESS PERMISSION FROM MIAMI-DADE COUNTY PUBLIC WORKS DEPARTMENT.

- VI. PROJECT CLOSE-OUT:**
- CLEANING UP:
 - 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 SWEEP BROOM CLEAN.

- XI. SANITARY SEWER COLLECTION SYSTEM:**
- GENERAL:
 - ALL MATERIALS, INSTALLATION AND TESTING UNDER THIS PROJECT SHALL BE IN STRICT ACCORDANCE WITH THE REQUIREMENTS OF THE CITY OF CORAL GABLES PUBLIC WORKS DEPARTMENT AND SHALL CONFORM TO THE STANDARDS AND SPECIFICATIONS AVAILABLE AND ON FILE WITH THE DEPARTMENT.
 - ALL SEWER LATERALS MUST COMPLY WITH CITY OF CORAL GABLES PUBLIC WORKS DEPARTMENT STANDARD DETAILS.
 - FOR ALL CONNECTIONS TO VCP, THE CONTRACTOR SHALL TELEWISE THE VCP PIPE BEFORE AND AFTER INSTALLATION.
 - MATERIALS, INSTALLATION AND TESTING:
 - 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.

- XII. SANITARY SEWER COLLECTION SYSTEM:**
- GENERAL:
 - ALL MATERIALS AND LABOR UNDER THIS PROJECT SHALL BE IN STRICT ACCORDANCE WITH THE REQUIREMENTS OF THE CITY OF CORAL GABLES PUBLIC WORKS DEPARTMENT AND SHALL CONFORM TO THE STANDARDS AND SPECIFICATIONS AVAILABLE AND ON FILE WITH THE DEPARTMENT.
 - 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.
 - ANY EXISTING PUBLIC SEWER SERVICE WITHIN THE PROPERTY IN CONFLICT 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 RESTRAINED PER MIAMI-DADE WATER AND SEWER DEPARTMENT STANDARD DETAIL GS 2.0.
 - ALL SEWER LATERALS MUST COMPLY WITH CITY OF CORAL GABLES PUBLIC WORKS DEPARTMENT STANDARD DETAILS.
 - FOR ALL CONNECTIONS TO VCP, THE CONTRACTOR SHALL TELEWISE THE VCP PIPE BEFORE AND AFTER INSTALLATION.
 - MATERIALS, INSTALLATION AND TESTING:
 - 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.

- X. TESTING:**
- 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.

SECTION	TITLE
24	CLEARING AND GRUBBING
30	EXCAVATION AND EMBANKMENT
33	STABILIZATION
40	RESTORATION OF TRENCHES
51	LIMEROCK BASE
100	PRIME AND TACK COATS
133	TYPE 1 ASPHALT CONCRETE SURFACE COURSE
145	SIDEWALK CURB AND GUTTER CONSTRUCTION
2	STREET NAME SIGNS SHALL BE ERECTED IN ACCORDANCE WITH CITY OF CORAL GABLES PUBLIC WORKS DEPARTMENT REQUIREMENTS AND SPECIFICATIONS
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.

GENERAL SITE NOTES:

- 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 COMPLY REPRESENT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS. IMPROVEMENTS DEPICTED ON THESE PLANS IN ACCORDANCE WITH ALL APPLICABLE RULES, REGULATIONS AND LAWS IN EFFECT AT THE TIME OF CONSTRUCTION.
- THE CONTRACTOR SHALL ACCEPT THE SITE AS IS. THE CONTRACTOR SHALL ASSESS CONDITIONS AND TEST QUALITY AND QUANTITIES OF WORK. THE CONTRACTOR 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 CHANGE OR CLAIM TO THE CONTRACT DURATION, OR ANY OTHER CLAIMS AGAINST THE OWNER OR OWNER'S ENGINEER.
- 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 (RFI) 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.
- 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 SUBMITTENTLY REVIEW ALL PLANS, PROFILES AND ANY OTHER INFORMATION IN THE CONTRACT DOCUMENTS FOR CONSISTENCY PRIOR TO CONSTRUCTION. ANY INCONSISTENCIES 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.
- 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.
- 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.
- 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.
- 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 THE 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 BE 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 GRADES SHALL BE RECORDED AT ALL LOW POINTS, ALONG SWALES, CENTERLINES OF ROADS OR DRIVE AISLES, AND IN PARKING AREAS. SHALL BE RECORDED. AS-BUILT SURVEYS OF THESE ITEMS SHALL BE PROVIDED TO THE ENGINEER OF RECORD WITHIN 30 DAYS OF CONSTRUCTION COMPLETION AND PRIOR TO FINAL PAYMENT BY THE OWNER. THE ENGINEER OF RECORD RESERVES THE RIGHT TO REVIEW THE AS-BUILT SURVEYS AND REQUIRE CORRECTIONS, WHERE APPROPRIATE, AND DEFICIENCIES WITH RESPECT TO THE CONSTRUCTION DRAWINGS AND THE LOCAL, COUNTY AND STATE STANDARDS ARE NOT ADHERED TO BY THE CONTRACTORS WORK.
- CONTRACTOR IS SPECIFICALLY CAUTIONED THAT ALL CONSTRUCTION STAKEOUT FOR THIS PROJECT MUST BE COMPLETED FROM THE 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 OTHER PURPOSES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE EXISTING HORIZONTAL OR VERTICAL DATA SHOWN IN THESE DRAWINGS AND THAT ENCOUNTERED IN THE FIELD MUST BE REPORTED TO THE DESIGN TEAM PRIOR TO CONSTRUCTION FOR RESOLUTION.

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 3 FEET FROM JOINTS IN GRAVITY OR PRESSURE SEWERS, WASTEWATER FORCE MAINS OR RECLAIMED WATER.

- ALL MATERIALS AND LABOR UNDER THIS PROJECT SHALL BE IN STRICT ACCORDANCE WITH THE REQUIREMENTS OF THE CITY OF CORAL GABLES PUBLIC WORKS 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.
- 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 CHECK VALVE AT THE POINT OF ENTRY.
- ALL GRAVITY SYSTEMS SHALL BE CONSTRUCTED IN ACCORDANCE WITH DEPARTMENT STANDARDS.
- ALL WATER METERS WILL BE INSTALLED BY THE MIAMI-DADE WATER AND SEWER DEPARTMENT, PROVIDING THE APPROPRIATE CHARGES HAVE BEEN PREPAID.
- FIRE HYDRANT REQUIREMENTS (NUMBER AND LOCATION) SHALL BE AS REQUIRED BY MIAMI-DADE COUNTY FIRE DEPARTMENT OR THE APPROPRIATE FIRE AGENCY WITH INSTALLATION IN ACCORDANCE WITH DEPARTMENT STANDARDS.
- CONTRACTOR MUST CALL MWDASD INSPECTION DIVISION TO ARRANGE FOR A PRECONSTRUCTION MEETING 2-FULL BUSINESS DAYS PRIOR TO PROPOSED START OF CONSTRUCTION. CONTACT ONE CALL CENTER 48 HRS PRIOR TO EXCAVATION.
- CONTRACTOR INSPECTOR WILL INSPECT ANY FACILITIES APPROVED BY THE DEPARTMENT. ALL OTHER REQUIREMENTS OF 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 DEPARTMENT:
 - EASEMENTS, IF REQUIRED
 - CONTRACTOR'S WATER AND RELEASE OF LIEN
 - ABSOLUTE BILL OF SALE
 - CONTRACTOR'S LETTER OF WARRANTY (I.E., LETTER AGREEMENT)
 - DEVELOPER'S CONTRACT BOND (I.E., CONTRACT 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 HAVE BEEN SIGNED AND SEALED BY A REGISTERED SURVEYOR & MAPPER. (% OF PRINTS: 4-FOR WATER, 4-FOR GRAVITY SEWER AND 5-FOR FORCE MAIN OR PUMP STATION PROJECTS). Submittal of final CAD Files required.
 - H.R.S. LETTER OF RELEASE REQUIRED FOR ALL WATER PROJECTS
 - BILL OF SALE SKETCH (96" X 11") FOR WATER AND SEWER, SEPARATELY
- ALL NEW CONNECTIONS FROM EXISTING DEPARTMENT MAINS TO BE MADE BY DEPARTMENT FORCES ONLY. THE CONTRACTOR TO EXCAVATE AT REQUIRED LOCATIONS, PROVIDE AND INSTALL MATERIAL WITH FITTINGS, PRIOR TO TAP.
- AN APPROVED PAVING AND DRAINAGE PLAN MUST BE SUBMITTED TO MWDASD FOR ALL NEW SUBDIVISIONS PRIOR TO APPROVAL OF WATER AND SEWER PERMIT PLANS, UPON REQUEST.
- 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 TAPPING VALVE ARE FURNISHED AND INSTALLED BY THE CONTRACTOR UNDER THE SUPERVISION OF THE INSPECTOR.

ISSUE DATE	APPROVED BY	STANDARD DETAIL	GS
03/01/2009	V.F.C.	STANDARD REQUIREMENTS	0.5
07/20/2016	D.V.	WATER AND SEWER CONSTRUCTION	0.5



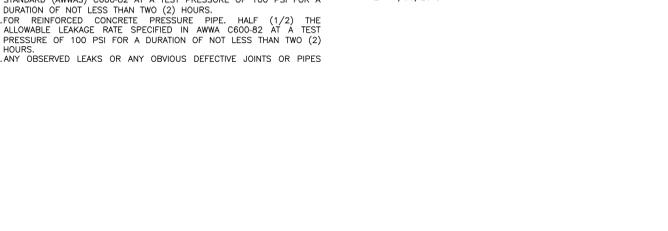
REGULATORY AND ECONOMIC RESOURCES

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 THE MINIMUM VERTICAL SEPARATION CAN BE REDUCED TO 3 FEET FOR VACUUM-TYPE SEWERS OR FOR GRAVITY SEWERS WHERE THE TOP OF THE SEWER PIPE IS AT LEAST 6 INCHES BELOW THE BOTTOM OF THE WATER PIPE. WHEN THE ABOVE MINIMUM HORIZONTAL DISTANCE CANNOT BE MET DUE TO AN EXISTING UNDERGROUND FACILITY CONFLICT, SMALLER SEPARATIONS ARE ALLOWED IF:
 - THE SEWER PIPES ARE DESIGNED AND CONSTRUCTED EQUAL TO THE WATER PIPE AND PRESSURE TESTED AT 150 PSI.
 - THE SEWER IS ENCASED IN A WATERHOOT 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 FROM 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:
 - THE SEWER PIPES ARE DESIGNED AND CONSTRUCTED EQUAL TO THE WATER PIPE AND PRESSURE TESTED AT 150 PSI.
 - THE SEWER IS ENCASED IN A WATERHOOT CARRIER PIPE OR CONCRETE. THE TOP OF THE SEWER IS AT LEAST 18 INCHES BELOW THE BOTTOM OF THE WATER PIPE.
- 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. THE MAXIMUM ALLOWABLE EXFILTRATION RATE OF GRAVITY SANITARY SEWERS CONSTRUCTED IN A PUBLIC WELLFIELD PROTECTION AREA SHALL BE:
 - RESIDENTIAL LAND USES: FIFTY (50) 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.
 - 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 WHEN THE TOTAL LEAKAGE IS BELOW THE ALLOWED.
- THE MAXIMUM ALLOWABLE EXFILTRATION RATE OF GRAVITY SANITARY SEWERS CONSTRUCTED OUTSIDE A PUBLIC WELLFIELD PROTECTION AREA SHALL BE:
 - RESIDENTIAL LAND USES: FIFTY (50) 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 WHEN THE TOTAL LEAKAGE IS BELOW THE ALLOWED.
- FORCE MAIN SANITARY SEWERS CONSTRUCTED WITHIN A PUBLIC WELLFIELD PROTECTION AREA SHALL BE C-900 PVC, HDPE, AND PVC PIPE. THE ALLOWABLE LEAKAGE RATE SPECIFIED IN STANDARD (AWWA) C600-82 AT A TEST PRESSURE OF 100 PSI FOR A DURATION OF NOT LESS THAN TWO (2) HOURS.
 - 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.
 - ANY OBSERVED LEAKS OR ANY OBVIOUS DEFECTIVE JOINTS OR PIPES SHALL BE REPLACED WHEN THE TOTAL LEAKAGE IS BELOW THAT ALLOWED.
- THE CONTRACTOR SHALL VERIFY NATURE, DEPTH, AND CHARACTER OF EXISTING UNDERGROUND UTILITIES PRIOR TO START OF CONSTRUCTION.
- IN NO CASE SHALL A CONTRACTOR INSTALL UTILITY PIPES, CONDUITS, CABLES, ETC. IN THE SAME TRENCH ABOVE AN EXISTING WATER OR SEWER PIPE EXCEPT WHERE THEY CROSS.
- IF ANY AREA OF THE WORK SITE IS FOUND TO CONTAIN BURIED SOLID WASTE AND/OR GROUND OR GROUND WATER CONTAMINATION, THE FOLLOWING SHALL APPLY:
 - ALL WORK IN THE AREA SHALL FOLLOW ALL APPLICABLE SAFETY REQUIREMENTS (E.G., OSHA, ETC.) AND NOTIFICATION MUST BE PROVIDED TO THE APPROPRIATE AGENCIES.
 - IMMEDIATELY NOTIFY THE ENVIRONMENTAL MONITORING AND RESTORATION DIVISION (EMRD). THE EMRD CAN BE CONTACTED AT (305) 372-6700.
 - IF CONTAMINATED SOILS AND/OR BURIED SOLID WASTE MATERIAL IS 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 WASTE MANAGEMENT AT (305) 594-6868 FOR INFORMATION.
 - THE REUSE OF CONTACTED SOILS THAT ARE NOT RETURNED TO THE 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.
 - PUMPS MUST COMPLY WITH THE NATIONAL ELECTRICAL CODE (NEC) REQUIREMENTS FOR CLASS I, GROUP D, DIVISION 1 LOCATIONS (EXPLOSION PROOF).
 - 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, THE CONTRACTOR SHALL CONTACT THE MIAMI-DADE COUNTY DEPARTMENT OF DERM AT (305) 372-6574 OR VIA EMAIL AT: TRRS@MIAMI-DADE.GOV. 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 ASPHALT WOULD CAUSE THE LOCATION TO BE CONSIDERED ACTIVE DISPOSAL SITES AND SUBJECT TO THE PROVISIONS OF SECTION 24-49.9 OF THE MIAMI-DADE CODE.
 - 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-61.151. 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 ASPHALT WOULD CAUSE THE LOCATION TO BE CONSIDERED ACTIVE DISPOSAL SITES AND SUBJECT TO THE PROVISIONS OF SECTION 24-49.9 OF THE MIAMI-DADE CODE. 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 CONTACT CONSTRUCTION ACTIVITIES. THE AQMD CAN BE CONTACTED VIA EMAIL AT: ASBESTOS@MIAMI-DADE.GOV OR 305-372-6925.

REV. 4/30/2018



EXISTING

A B

1



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FL CERTIFICATE OF AUTHORIZATION NO. 00006601LB817L8LBI98

Exhibit C
Peak Flow Calculations

Peaking Factor Calculation

Based on the Ten State Standards, the Peaking Factor shall be calculated as follows:

$$Q_{\text{peak Hourly}} / Q_{\text{design Average}} = \frac{18 + \sqrt{P}}{4 + \sqrt{P}}$$

where P is Population in thousands = $\frac{\text{Anticipated Flow}}{100 \text{ gpdpc} \times 1000}$

Area	ADF (GPD)	Population, P	Peak Factor	Peak Flow (GPD)	Peak Flow (GPM)	Peak Flow (GPS)
Existing Soffer Indoor Practice Facility	1,450	0.01450	4.40	6,377	4.43	0.07
Indoor Practice Facility expansion and weighroom	2,481	0.02481	4.37	10,836	7.52	0.13
Totals	3,931			17,212	11.95	0.20