MIAMI-DADE COUNTY
miamidade.gov

Water and Sewer
PO Box 330316
Miami, Florida 33233-0316
T 786-268-5360 F 786-268-5150

VERIFICATION FORM

DATE:	January 23, 2024	BLDG PROCESS #:	M2023021890
VF#	24-2024-W-VF - 1036	INVOICE(S)#:	N00141276 N00141276

THIS FORM EXPIRES ONE YEAR FROM THE DATE ON THE FORM

PROJECT NAME:	PAOLO FINDANZA'S FAMILY HOUSE 11041 SW 77 AVE M2023021890
PROJECT/AGREEMENT NUMBER:	2024
PROJECT DESCRIPTION:	NEW CONSTRUCTION SFR 11,041 SQ. FT. PER CPP REPLACING DUPLEX 1,912 SQ. FT. PER PTXA AND CCB SP ID# 6276678068 & 0376678067 WATER & SEPTIC
IS THIS AN AFFORDABLE HOUSING PROJECT? **No**	

Folio	Address	Zip Code	Lot	Block	Proposed sq. ft.	Previous sq. ft.
2050110000390	11041 SW 77 AVE	33156	M	B	11,041	1,912

Connection Type	Reason for Connection Information	Critical Habitat	Wetlands	Affordable Housing	SIR Inspection #
Water, Sewer	New Construction	No	No	No	N/A

THIS VERIFICATION LETTER CERTIFIES THAT AVAILABILITY OF A WATER AND/OR SEWER MAIN ONLY, AND IT DOES NOT GUARANTEE THE EXISTENCE OF A WATER SERVICE LINE, FIRE LINE OR OF A SEWER LATERAL WITH SUFFICIENT DEPTH TO SERVE THE PROPERTY. FOR ADDITIONAL INFORMATION EMAIL **NEWBUSINESSSUPVLIST@MIAMIDADE.GOV**. SHOULD IT BECOME NECESSARY TO INSTALL A SERVICE LINE AND/OR A SEWER LATERAL MDWASD REQUIRES THAT THE DEVELOPER RETAINS SERVICES FROM DESIGNERS AND CONTRACTORS WITH SKILL SETS FOR DESIGNING, BUILDING, AND CONNECTING TO PUBLIC WATER AND SEWER SYSTEMS. A WATER AND/OR SEWER AGREEMENT MAY BE REQUIRED. **AN INSPECTION FOR ANY EXISTING SERVICES WILL BE PROCESSED WITH THIS FORM, AND A SERVICE UPGRADE MAY BE REQUIRED WHICH MAY TAKE UP TO 12 WEEKS.**
THIS IS TO CERTIFY THAT THE MIAMI-DADE WATER AND SEWER DEPARTMENT **DOES HAVE** A(N) **12** INCH WATER MAIN AND/OR **DOES NOT HAVE** A(N) INCH GRAVITY SEWER MAIN ABUTTING THE SUBJECT PROPERTY.

Proposed Use	Square Footage/ # Units	Water Gallons Per Day	Sewer Gallons Per Day
SFR more than 5000 sqft (510 gpd/unit)	1	510	0

Previous Use	Square Footage/ # Units	Water Gallons Per Day	Sewer Gallons Per Day
2018 - Duplex/Twin home (150 gpd/unit)	2	300	0

Water Service Area	**WASD Water**	**Sewer Service Area**	**WASD Sewer**
Net Water GPD	210	**Net Sewer GPD**	0
Net Water Cost ($)	$ 291.90	**Net Sewer Cost ($)**	$ 0.00
Water Basin Charge ($)	No	**Sewer Basin Charge ($)**	No
Total Connection Charges ($)			$ 291.90
Total Construction Connection Charges ($) (accrues interest daily)			$ 0.00
Construction Connection Charges Status			N/A

WE ARE WILLING TO SERVE THE SUBJECT PROPERTY, SUBJECT TO PROHIBITIONS, OR RESTRICTIONS OF GOVERNMENTAL AGENCIES HAVING JURISDICTION OVER MATTERS OF THE ANTICIPATED DAILY WATER AND/OR SEWAGE FLOW FOR THIS PROJECT WHICH WILL BE THE NUMBER OF GALLONS PER DAY INCREASE STATED ABOVE. IF "**WILL HAVE**", UPON PROPER CONVEYANCE AND PLACEMENT INTO SERVICE OF WATER AND/OR SEWER FACILITIES BY THE DEVELOPER UNDER AGREEMENT IF APPLICABLE WITH THE DEPARTMENT. FURTHERMORE, APPROVAL OF ALL SEWAGE FLOWS INTO THE DEPARTMENT'S SYSTEM MUST BE OBTAINED FROM D.E.R.M. SUBJECT TO RER'S TERMS AND CONDITIONS SET FORTH IN THE CONSENT DECREE (CASE NO. 1:12-CV-24400-FAM) OR DOH ONSITE SEWER TREATMENT & DISPOSAL SYSTEM RULES & STATUES.

Fixed Fee Item	Price ($)	Total Quantity	Total Fees ($)
Verification Form - Residential (R-A) Water	30	1.00	30.00
Water Allocation Certificate - Initial	90	1.00	90.00
Total Fixed Fee			$ 120.00
Verification Form Total ($)			$ 411.90
Connection Charges Paid?			**Yes**

COMMENTS: Refunds are based on the payment date and subject to State Statute 95-11. Some fees are not refundable. allowed 8 to 12 weeks for new service installation.

CUSTOMER NAME: HEIDY CERTAIN

CUSTOMER PHONE:

Prepare by: Wanda Wilson
Printed Name of Reviewer

Approved by: Suany Macias
Printed Name of Supervisor

Attached is the Comprehensive Planning and Water Supply Certification Letter

FINDANZA'S FAMILY HOUSE

NEW CONSTRUCTION

11041 SW 77TH AVE, PINECREST, FL, 33156

SHEET LIST MASTER SET	
Sheet Number	Sheet Name
A-0.0	COVER
A-0.1	GENERAL NOTES
A-0.2	SITE PLAN
A-0.3	SITE PLAN -ZONING DATA
A-0.4	SITE PLAN- DETAIL
A-1.0	GROUND FLOOR PLAN
A-1.1	SECOND FLOOR PLAN
A-1.2	ROOF PLAN
A-1.3	KITCHEN & BATH
A-1.4	BATH
A-1.5	BATH
A-2.0	ELEVATION EAST & WEST
A-2.1	ELEVATION SOUTH
A-2.2	ELEVATION NORTH
A-2.3	ELEVATION GYM
A-3.0	SECTION A-A, B-B & C-C
A-3.1	SECTION D-D
A-3.2	SECTION E-E
A-3.3	WALL SECTION
A-3.4	WALL SECTION
A-4.0	STAIR
A-4.1	ELEVATOR
A-5.0	R.F.C GROUND FLOOR PLAN
A-5.1	R.F.C SECOND FLOOR PLAN
A-6.0	SCHEDULES DOOR & FINISH
A-6.1	SCHEDULES STORE FRONT
A-6.2	SCHEDULES
A-6.3	GENERAL DETAIL
A-6.4	GENERAL DETAIL
A-6.5	DOOR DETAILS

JORGE L VILLAVICENCIO

Digitally signed by JORGE L VILLAVICENCIO
Date: 2023.08.28 11:41:57 -04'00'

STATE OF FLORIDA
JORGE L VILLAVICENCIO
AR0012110
REGISTERED ARCHITECT

REVISIONS

Rev.	Date	Description

FIDANZA'S FAMILY HOUSE
NEW CONSTRUCTION
11041 SW 77TH AVE, PINECREST, FL 33156

Corporation Licence #AA0003589

Architectural Seal

JORGE L VILLAVICENCIO
NO. AR0012110

VILLA & ASSOCIATES INC.
ARCHITECTURE - PLANNING - INTERIOR DESIGN
5801 SW 69 AVENUE - MIAMI, FLORIDA 33155
TEL. 305-613-0865 - E-Mail Jvillarchitect@gmail.com

CONSULTANT : ARCHI-TEK STUDIO CORP.
TEL. 305-799-8016 - E-Mail magullar@architekstudio.com

DATE: 10-20-2022

SCALE: AS SHOWN

PROJECT NO: COVER

DRAWING NO : A-0.0

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NEW CONSTRUCTION

11041 SW 77TH AVE, PINECREST, FL, 33156

JORGE L VILLAVICENCIO

Digitally signed by JORGE L VILLAVICENCIO
Date: 2023.11.06 09:50:49 -05'00'

REVISIONS

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1	10-9-2023	Building comment

FIDANZA'S FAMILY HOUSE
NEW CONSTRUCTION
11041 SW 77TH AVE, PINECREST, FL 33156

Corporation Licen
CFA0003588
Architectural Seal
JORGE L VILLAVICENCIO
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STATE OF FLORIDA
JORGE L VILLAVICENCIO
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SHEET LIST MASTER SET	
SHEET NUMBER	SHEET NAME
CIVIL	
C-1.0	GRADING AND DRAINAGE PLAN
C-1.1	SECTION AND DETAIL
C-2.0	STORM WATER / SOIL EROSION CONTROL PLAN
LANDSCAPE	
L-01	LANDSCAPE DISPOSITION PLAN
L-02	LANDSCAPE PLANTING PLAN
L-03	DETAILS
ARCHITECTURE	
A-0.0	COVER
A-0.1	GENERAL NOTES
A-0.01	INDEX
A-0.2	SITE PLAN
A-0.3	SITE PLAN -ZONING DATA
A-0.4	SITE PLAN- DETAIL
A-1.0	GROUND FLOOR PLAN
A-1.1	SECOND FLOOR PLAN
A-1.2	ROOF PLAN
A-1.3	KITCHEN & BATH
A-1.4	BATH
A-1.5	BATH
A-2.0	ELEVATION EAST & WEST
A-2.1	ELEVATION SOUTH
A-2.2	ELEVATION NORTH
A-2.3	ELEVATION GYM
A-3.0	SECTION A-A, B-B & C-C
A-3.1	SECTION D-D
A-3.2	SECTION E-E
A-3.3	WALL SECTION
A-3.4	WALL SECTION
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A-6.0	SCHEDULES DOOR & FINISH
A-6.1	SCHEDULES STORE FRONT
A-6.2	SCHEDULES
A-6.3	GENERAL DETAIL
A-6.4	GENERAL DETAIL

SHEET LIST MASTER SET	
SHEET NUMBER	SHEET NAME
A-6.5	DOOR DETAILS
STRUCTURE	
S1	FOUNDATION PLAN
S2	SECOND FLOOR & GYM ROOF FRAMING PLAN
S3	ROOF FRAMING PLAN
S4	SCHEDULES Y TYPICAL DETAILS
S5	TYPICAL DETAILS
S6	SECTIONS
S7	SECTIONS
S8	SECTIONS
S9	WINDOWS & DOORS PRESSURES ELEVATIONS
S10	WINDOWS & DOORS PRESSURES ELEVATIONS (GYM)
ELECTRICAL	
E-0.1	GENERAL NOTES
E-0.2	RISE DIAGRAM & LOAD CALCULATION
E-1.1	GROUND FLOOR POWER PLAN-SECTION A
E-1.2	GROUND FLOOR POWER PLAN-SECTION B
E-1.3	GROUND FLOOR LIGHTING PLAN-SECTION A
E-1.4	GROUND FLOOR LIGHTING PLAN-SECTION B
E-2.1	SECOND FLOOR POWER PLAN
E-2.2	SECOND FLOOR LIGHTING PLAN
MECHANICAL	
M-1.0	MECHANICAL GROUND FLOOR PLAN
M-1.1	MECHANICAL SECOND FLOOR PLAN
M-1.2	MECHANICAL NOTES AND DETAILS
PLUMBING	
P-0-1	PLUMBING SITE PLAN
P-1-0	PLUMBING GROUND FLOOR PLAN
P-1-1	PLUMBING GROUND FLOOR PLAN
P-1-2	PLUMBING SECOND FLOOR PLAN
P-1-3	PLUMBING SECOND FLOOR PLAN
P-1-4	PLUMBING STORM DRAIN ROOF
P-2-0	PLUMBING NOTES, SCHEDULE AND DETAILS
SEPTIC TANK	
SP-2.00	SEPTIC TANK

JORGE L VILLAVICENCIO

Digitally signed by JORGE L VILLAVICENCIO
Date: 2023.11.06 09:50:10 -05'00'

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GENERAL NOTES :

1. INSTRUCTIONS TO CONTRACTOR:

1.1. PLANS AND DETAILS ARE COMPLEMENTARY AND MUTUALLY EXPLANATORY AND WHAT IS REQUIRED BY ONE, SHALL BE AS BINDING AS IF REQUIRED BY ALL, AND ARE NOT INTENDED TO BE USED AS SHOP DRAWINGS. WHERE VARIANCES, DISCREPANCIES, ETC. OCCUR BETWEEN DRAWINGS AND SPECIFICATIONS, OR WITHIN EITHER DOCUMENTS ITSELF, THE ITEM OR ARRANGEMENT OF BETTER QUALITY AND OR HIGHER COST SHALL BE INCLUDED IN THE CONTRACT.

1.2. THE CONTRACTOR AGREES THAT HE, HIS MANAGEMENT TEAM (ESTIMATOR, PROJECT MANAGER, PROJECT ENGINEERS, SUPERINTENDENTS, AND SUBCONTRACTORS AND PRINCIPAL SUPERVISORY PERSONNEL) HAS VISITED THE SITE, EXAMINED THE SITE AND THE LOCATION OF THE PROPOSED WORK, AND EXISTING IMPROVEMENTS, AND CONDITIONS AND PHYSICAL CHARACTERISTICS OF THE JOB. THE CONTRACTOR(S) SHALL INCLUDE IN HIS BUDGET ALL COSTS ASSOCIATED WITH, AND PERTAINING TO, THE SATISFACTORY COMPLETION OF THE PROJECT AND THE COMPLETE INSTALLATION OF ALL ASSOCIATED SYSTEMS, INCLUDING THE REMOVAL AND RELOCATION OF ANY AND ALL OBJECTS OR OBSTRUCTIONS THAT MAY BE ENCOUNTERED IN THE COMPLETION OF THE WORK THAT MAY NOT HAVE BEEN PREVIOUSLY DOCUMENTED IN THE CONSTRUCTION DOCUMENTS.

1.3. THE WORK DESCRIBED HEREIN INVOLVES THE DESIGN FOR CONSTRUCTION OF A NEW RESIDENCE. THE CONTRACTOR SHALL CORRELATE ALL WORK DESCRIBED ON THE DRAWINGS WITH THE ACTUAL CONDITIONS IN THE FIELD. CONTRACTORS SHALL NOTIFY THE ARCHITECT IN WRITING OF ANY SITUATION WHICH ENDANGERS THE INTEGRITY OF THE BUILDING OR PREVENTS HIM FROM SUCCESSFULLY ATTAINING THE DESIGN INTENT.

1.4. CONTRACTOR SHALL PREPARE A CONSTRUCTION SCHEDULE SUBJECT TO REVIEW AND APPROVAL BY OWNER'S REPRESENTATIVE

1.5. THE CONTRACTOR SHALL MAINTAIN A COPY OF ALL APPLICABLE CODES AND STANDARDS RELEVANT TO THIS PROJECT ON SITE AT ALL TIMES, AND SHALL COMPLY WITH ALL REQUIREMENTS OF THE CURRENT FLORIDA BUILDING CODE, AND ALL APPLICABLE FEDERAL, STATE AND LOCAL CODES, STANDARDS, REGULATIONS, AND LAWS.

1.6. THE CONTRACTOR SHALL MAINTAIN A COMPLETE AND CURRENT SET OF PERMIT DRAWINGS ON-SITE AT ALL TIMES ALONG WITH ALL REVISIONS TO THE PERMIT, INCLUDING PERMITTED SHOP DRAWINGS AND CALCULATIONS. SAID DRAWINGS ALONG WITH ALL INSPECTION LOGS, AND PERMITS SHOULD BE MAINTAINED IN AN EASILY ACCESSIBLE SPACE FOR THE OWNER, ARCHITECT, ENGINEERS, AND BUILDING OFFICIALS TO REVIEW.

1.7. THE CONTRACTOR SHALL REVIEW ALL CONTRACT DOCUMENTS, PERMIT DOCUMENTS, DIMENSIONS, JOB-SITE CONDITIONS, AND COORDINATE WITH FIELD DIMENSIONS, AND PROJECT SHOP DRAWINGS PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL MAKE NOTE OF ANY AND ALL DISCREPANCIES THAT PREVENT THE INSTALLATION OF ANY ASPECT OF THE CONSTRUCTION TO ACHIEVE THE CHARACTER AND APPEARANCE DEFINED IN THE CONTRACT DOCUMENTS. THE CONTRACTOR SHALL REPORT ANY AND ALL DISCREPANCIES REGARDLESS OF THEIR NATURE TO THE ARCHITECT IN WRITING PRIOR TO PROCEEDING WITH THE WORK, REASONABLY ASSESS THE CONDITION AND DETERMINE AN APPROPRIATE SOLUTION.

1.8. ITEMS AFFECTING ALL TRADES ARE PLACED THROUGHOUT THE DRAWINGS. NO "CHANGE ORDERS" FOR MISSED ITEMS IN OTHER SECTIONS OF THE WORK WILL BE PERMITTED. THE CONTRACTOR SHALL PROMPTLY NOTIFY THE ARCHITECT IN WRITING OF AMBIGUITY, INCONSISTENCY OR ERROR WHICH THEY DISCOVER UPON EXAMINATION OF THE CONTRACT DOCUMENTS, THE SITE, OR LOCAL CONDITIONS.

1.9. THE CONTRACTOR SHALL PERFORM ALL WORK IN A FIRST CLASS WORKMANSHIP LIKE MANNER.

1.10. THE ARCHITECT AND OR ENGINEERS(S) SHALL NOT BE RESPONSIBLE FOR, NOR HAVE CONTROL OR CHARGE OVER THE CONSTRUCTION MEANS, METHODS, SEQUENCES, OR PROCEDURES OR FOR THE SAFETY PRECAUTION PROGRAMS. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR DAMAGES OR INJURIES DUE TO HIS ACT OR NEGLECT.

1.11NO UTILITIES, DATA OR COMMUNICATION CABLES, POWER OR BUILDING OPERATIONS SHALL BE INTERRUPTED WITHOUT PRIOR APPROVAL OF OWNER'S REPRESENTATIVE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DAMAGES CAUSED BY UNAUTHORIZED INTERRUPTION OF EXISTING UTILITIES, CONTROLS, COMPUTER LINES, ETC. CAUSED BY THE CONTRACTOR OR SUBCONTRACTOR AND SHALL MAKE IMMEDIATE REPAIR AND THEN NOTIFY THE OWNER'S REPRESENTATIVE.

1.12. PROTECT THE EXISTING BUILDING AND ADJACENT AREAS FROM DAMAGE AND BE LIABLE FOR DAMAGES THEY CAUSE. PROVIDE BARRICADES AND BARRIERS AS REQ'D TO PROTECT ADJACENT AREAS AND PERSONNEL AND PREVENT MIGRATION OF DUST AND EXCESS DEBRIS. PROVIDE FENCE & PROTECTION TO PROTECT ADJACENT BUILDINGS.

1.13 AS-BUILT CONDITIONS MAY NOT COINCIDE WITH THOSE INDICATED ON THE CONSTRUCTION DOCUMENTS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DEMOLITION, BUT NOT LIMITED TO, ALL THE ITEMS LISTED FOR DEMOLITION IN THE CONSTRUCTION DOCUMENTS. THE CONTRACTOR SHALL INSPECT THE EXISTING CONDITIONS AND SHALL BE RESPONSIBLE FOR DEMOLITION OF EXISTING WORK AS REQUIRED TO COMPLETE THE NEW WORK.

2. LICENSING:

THE CONTRACTOR AND ALL SUBCONTRACTORS SHALL BE LICENSED BY THE STATE OF FLORIDA AND VILLAGE OF PINECREST. LICENSES AND CLEARANCES SHALL CONFORM TO ALL BUILDING SECURITY POLICIES AND REGULATIONS.

3. ORDINANCES:

THE CONTRACTOR SHALL BE RESPONSIBLE FOR ASCERTAINING THE REQUIREMENTS OF AND ADHERING TO ALL NOISE ORDINANCES OR OTHER ORDINANCES THAT MAY RESTRICT THE ACTIVITIES OF THE WORK ON THIS JOB.

4. PERMITS:

THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL REQUIRED PERMITS PRIOR TO THE COMMENCEMENT OF WORK. THE REQUESTING AND COORDINATION OF ALL INSPECTIONS AND APPROVAL OF ALL ASPECTS OF HIS WORK, AND OBTAINING ALL TEMPORARY AND FINAL CERTIFICATES OF OCCUPANCY.

5. DEBRIS AND DISPOSAL:

THE CONTRACTOR SHALL REMOVE FROM THE SITE AND LEGALLY DISCARD IN A TIMELY MANNER ALL CONSTRUCTION DEBRIS THAT WILL NOT BE REUSED OR RELOCATED ELSEWHERE IN THE PROJECT.

6. HAZARDOUS MATERIALS:

IF ANY HAZARDOUS MATERIALS, INCLUDING ASBESTOS, ARE ENCOUNTERED DURING DEMOLITION WORK, STOP WORK IMMEDIATELY AND CONTACT MALL MANAGEMENT CONTRACTOR TO VERIFY QUANTITIES AND LOCATION OF EXISTING TELEPHONE OUTLETS, CLEAN-OUTS AND DRAINS AND CONFIRM AVAILABILITY OF REPLACEMENT ITEMS PRIOR TO DEMOLITION WORK.

7. MATERIALS AND EQUIPMENT:

THE CONTRACTOR IS RESPONSIBLE FOR ALL MATERIALS, EQUIPMENT, AND APPLIANCES THAT ARE TO BE USED. THE CONTRACTOR SHALL PROVIDE PROTECTION FROM VANDALISM, THEFT, WEATHER, DUST, NOISE, AND ANY OTHER SOURCE OF DAMAGE OR LOSS.

8. HURRICANE / WINDSTORM PLAN:

THE CONTRACTOR SHALL PREPARE AND MAINTAIN A HURRICANE PREPAREDNESS PLAN. THE CONTRACTOR SHALL MAINTAIN SAID PLAN IN A LOCATION THAT IS READILY ACCESSIBLE FOR REVIEW BY THE OWNER AND OR ARCHITECT.

8.1 THE HURRICANE PLAN SHALL INCLUDE A LIST OF CONTACTS IN THE EVENT THAT A HURRICANE WATCH IS POSTED AND WILL ALSO ADDRESS WHAT MEASURES ARE TO BE TAKEN TO SECURE THE CONSTRUCTION SITE IN THE EVENT OF NOTIFICATION BY THE NATIONAL WEATHER SERVICE OF AN IMPENDING HURRICANE OR WINDSTORM THAT MAY THREATEN THE JOB.

8.2 THE HURRICANE PLAN SHALL ADDRESS HOW THE CONTRACTOR WILL MOBILIZE THE PROJECT FOLLOWING A WIND OR HURRICANE EVENT AND DOCUMENTATION OF DAMAGES AND HOW REPAIRS WILL BE HANDLED IN THE EVENT OF A LOSS.

9. DAMAGES:

IN THE EVENT OF DAMAGES TO THE BUILDING WHICH REQUIRE ASSESSMENT FOR AN INSURANCE CLAIM, THE CONTRACTOR MUST IMMEDIATELY NOTIFY THE OWNER OF THE CIRCUMSTANCES SURROUNDING THE LOSS, DOCUMENT DAMAGES, DETERMINE AND PRICE REPAIRS, DETERMINE IMPACT TO THE PROJECT SCHEDULE, SUBMIT ALL INFORMATION TO THE OWNER WITHIN 72 HOURS OF A LOSS.

10. COORDINATION:

CONTRACTOR SHALL COORDINATE THE WORK OF ALL TRADES AT THE TIME THE WORK IS PERFORMED. NO ADDITIONAL PAYMENTS SHALL BE MADE FOR THE CONTRACTOR'S FAILURE TO CORRECT CONFLICTING FIELD CONDITIONS AFTER THE WORK HAS BEEN COMPLETED.

11. SCHEDULING OF WORK:

THE CONTRACTOR SHALL WORK AND RETAIN COOPERATION WITH THE OWNER AND TENANT(S) IN SCHEDULING THEIR WORK IN ORDER TO CAUSE THE LEAST INCONVENIENCE TO PERSONNEL AND PROPERTY.

12. TESTS:

THE CONTRACTOR SHALL COORDINATE ALL REQUIRED TESTS. PAYMENT OF ALL TEST SHALL BE AS INDICATED IN THE AGREEMENT BETWEEN THE OWNER/CONCTRACTOR OR GENERAL CONDITIONS. IF NOT SPECIFICALLY DEFINED, THESE COSTS SHALL BE BORNE BY THE CONTRACTOR.

13. TYPICAL DETAILS:

CONTRACTOR SHALL RESOLVE QUESTIONS REGARDING APPLICABILITY OF TYPICAL DETAILS WITH THE ARCHITECT/ENGINEER. DETAILS LABELED AS "TYPICAL DETAILS, OR (TYP.) ON THE DRAWINGS APPLY TO ALL SITUATIONS THAT ARE THE SAME OR SIMILAR TO THOSE SPECIFICALLY DETAILED OR EXISTING AT THE SITE. SUCH DETAILS APPLY WHETHER OR NOT THEY ARE KEYED IN AT EACH LOCATION.

14. CLEANING:

PROVIDE CLEANING AS INDICATED IN THE CONTRACT FOR CONSTRUCTION BETWEEN THE OWNER/CONTRACTOR. THOROUGHLY CLEAN THE PREMISES TO MAKE READY FOR OPENING. CLEAN ALL SURFACES INTERIOR AND EXTERIOR, FREE OF ALL DIRT AND REFUSE CAUSED BY DEBRIS FROM ALL INSTALLATION TECHNIQUES OF THE TRADES INCLUDING:

14.1. POLISHING ALL HARDWARE.
14.2. THOROUGHLY CLEANING ALL CABINETS INSIDE AND OUT.
14.3. CLEANING SHELVES INSIDE AND OUT .
14.4. ALL MIRRORS, GLASS STOREFRONTS, AND TERRACES, WINDOWS AND, METAL FRAMING TO BE CLEANED INSIDE AND OUT, WHERE POSSIBLE.
14.5. REMOVE ANY SPOTS FROM AND CLEAN ALL CARPETING.
14.6. CLEAN STORE FINISHES AND FLOORING THOROUGHLY INCLUDING BASES.
14.7. CLEAN OR TOUCH UP ALL PAINTED SURFACES WHICH ARE SOILED. THE 4GENERAL, CONTRACTOR IS TO DELIVER TO THE OWNER A CLEAN BUILDING PRIOR TO OPENING TO THE PUBLIC.

15. EXISTING SURFACES / FINISHES:

15.1. WITHIN THE PROJECT SITE AND AT ALL OTHER AFFECTED AREAS, CLEAN PATCH, AND RESTORE ALL FLOOR AND WALL SURFACES INDICATED TO REMAIN, TO A 'LIKE NEW' CONDITION.

15.2. WITHIN THE LIMITS OF THE WORK, CONTRACTOR IS TO REPLACE ALL DAMAGED EXISTING FINISHES AND MATERIALS INDICATED TO REMAIN WITH NEW PRODUCTS TO MATCH EXISTING CONDITIONS.

15.3. FILL, FLOAT AND/OR GRIND CONC. FLOOR SLAB AND/OR ORIGINAL FLOOR TILE PRIOR TO INSTALLATION OF NEW FLOOR FINISH, PROVIDING A LEVEL SUBSTRATE.

16. USE OF DRAWINGS:

16.1. THESE DRAWINGS ARE BEING PREPARED FOR THE PURPOSE OF PERMITTING A NEW 2-STORY HOUSE CONSTRUCTION AT 10639 SW 61 AVE., PINECREST, FL 33156. THESE DRAWINGS ARE NOT TO BE USED FOR MAINTENANCE PURPOSES AS ACTUAL CONDITIONS MAY VARY FROM THOSE SHOWN ON THESE DRAWINGS DUE TO CHANGE ORDERS, ALTERATIONS BY OTHERS, FIELD CONDITIONS, ETC.

16.2. THESE DRAWINGS AND RELATED DOCUMENTS DETAIL WORK FOR THIS SPECIFIC PROJECT INDICATED BY THE PROJECT NUMBER AND LISTED LOCATION. THESE DOCUMENTS SHALL REMAIN THE PROPERTY OF MODIS ARCHITECTS, LLC. AND MAY NOT BE USED FOR ANY OTHER PROJECT OR PURPOSE WITHOUT WRITTEN PERMISSION OF THE ARCHITECT, MODIS ARCHITECTS, LLC.

16.3. THE ARCHITECT AND ENGINEERS WILL NOT PROVIDE TO THE CONTRACTOR OR HIS SUBCONTRACTORS ANY DISKS OR ELECTRONIC MEDIA PREVIOUSLY / CURRENTLY USED IN THE PREPARATION OF THE CONSTRUCTION DRAWINGS.

16.4. DO NOT REPRODUCE THE DRAWINGS FOR USE AS SHOP DRAWINGS.

16.5. DO NOT SCALE DRAWINGS, WRITTEN DIMENSIONS TAKE PRECEDENCE.

17. WALL DIMENSIONS:

17.1. AT INTERIOR, WALL DIMENSIONS ARE FACE OF STUD TO FACE OF STUD. ALL EXTERIOR WALL DIMENSIONS ARE TO FACES OF BLOCK WALLS (WHERE APPLICABLE).

17.2. ALL STUDS ARE TO EXTEND TO THE UNDERSIDE OF STRUCTURE ABOVE UNLESS OTHERWISE NOTED. PLEASE REFER TO WALL SECTIONS AND WALL TYPES FOR DETAILED WALL CONSTRUCTION INFORMATION (WHERE APPLICABLE).

18. OWNER FURNISHED MATERIALS:

18.1. FOR ANY MATERIAL FURNISHED BY THE OWNER WHICH ARE TO BE INSTALLED BY THE CONTRACTOR (F.O.I.C.) ITEMS. UNPACK AND VERIFY THE QUANTITY AND CONDITION. NOTIFY THE OWNER OF ANY DISCREPANCIES IN QUANTITY AND DAMAGES WITHIN TWELVE HOURS (12) OF RECEIVING SHIPMENT. FAILURE TO DO SO PLACES RESPONSIBILITY ON THE CONTRACTOR.

18.2. ALL OWNER-FURNISHED MATERIAL, IF ANY, ARE TO BE FURNISHED VIA TAILGATE DELIVERY ONLY. THE CONTRACTOR IS RESPONSIBLE FOR THE UNLOADING, EXAMINATION, AND TRANSPORTATION OF OWNER FURNISHED MATERIALS FROM THE POINT OF OFF-LOADING TO THE JOB-SITE OR STORAGE AREA AS APPLICABLE. MATERIALS WILL BE DELIVERED TO THE CLOSEST AVAILABLE TRUCK DOCK OR ALTERNATE LOCATION AS DIRECTED BY THE OWNER.

19. SUBSTITUTIONS:

19.1. SUBSTITUTION OF MATERIALS OR EQUIPMENT OTHER THAN SPECIFIED SHALL BE PERMITTED UPON WRITTEN AUTHORIZATION FROM THE ARCHITECT AND OWNER.

19.2. THE CONTRACTOR SHALL BEAR THE BURDEN OF PROOF THAT SUCH SUBSTITUTION IS EQUAL TO SPECIFIED ITEM AND CAN BE OBTAINED IN A TIMELY MANNER.

19.3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE COORDINATION OF ALL SUBSTITUTE ITEMS WITH ALL ASSOCIATED/IMPACTED TRADES.

19.4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL DESIGN COSTS ASSOCIATED WITH A SUBSTITUTION.

20. PERMANENT FIRE EXTINGUISHERS:

20.1. FIRE EXTINGUISHERS OF THE TYPE AND QUANTITY APPROVED BY THE LOCAL FIRE OFFICIAL AND THE OWNERS CASUALTY INSURER ARE TO BE PROVIDED IN SURFACE MOUNTED CABINETS.

20.2. ALL FIRE EXTINGUISHER CABINETS LOCATED IN A FIRE RATED WALL ASSEMBLY SHALL BE PROVIDED AS A FIRE RATED CABINET.

20.3. THE CONTRACTOR SHALL PROVIDE SUFFICIENT ALLOWANCE TO INSTALL ALL REQUIRED FIRE EXTINGUISHERS & CABINETS.

20.4 THE CONTRACTOR MAY NOT ALLOCATE ANY TEMPORARY CONSTRUCTION USE FIRE EXTINGUISHERS AS PERMANENT FIRE EXTINGUISHERS.

20.5 ALL FIRE EXTINGUISHERS AND CABINETS SHALL BE INSTALLED IN ACCORDANCE WITH ALL APPLICABLE BUILDING CODES AND HANDICAP ACCESSIBILITY REQUIREMENTS.

21. COATINGS:

21.1. THE CONTRACTOR SHALL ENSURE THAT ALL STRUCTURAL STEEL IS PAINTED WITH ONE COAT OF PRIMER AND ONE COAT OF RUST INHIBITING PAINT PRIOR TO ENCLOSURE.

21.2. ALL EXPOSED EXTERIOR ALUMINUM SHALL BE COATED WITH A HIGH GLOSS, HIGH PERFORMANCE COATING. THE HIGH PERFORMANCE COATING SHALL BE SUFFICIENT TO PREVENT CORROSION OR DEGRADATION OF THE MATERIAL FOR A PERIOD OF 15 YEARS. HIGH PERFORMANCE COATINGS SHALL BE INSTALLED IN ACCORDANCE WITH THESE PLANS AND SPECIFICATIONS OR AS OTHERWISE REQUIRED BY THE MANUFACTURER.

22. FLAME SPREAD RATING:

ALL MATERIAL USED IN THE INTERIOR OF THE PROJECT MUST MEET THE FLAME SPREAD RATINGS PER THE GOVERNMENT CODE. PROOF OF THESE FLAME SPREAD RATINGS MUST BE INCLUDED AS A PART OF A FINAL INSPECTION PRIOR TO ISSUANCE OF A CERTIFICATE OF OCCUPANCY.

23. FIRE RESISTANCE RATING:

PROVIDE INFORMATION ADDRESSING THE FIRE RESISTANCE OF EVERY EXISTING CONSTRUCTION COMPONENT OR ASSEMBLY INSIDE OR ADJACENT TO THIS PROJECT, THEY MUST BE IN COMPLIANCE WITH THE 2014 FLORIDA BUILDING CODE WITH ALL CURRENT SUPPLEMENTS.

24. FRAMING:

24.1. ALL FRAMING LUMBER AND WOOD BLOCKING SHALL BE FIRE RETARDANT TREATED (F.R.T.) LUMBER. NO F.R.T. MATERIAL MAY BE USED IN THE CEILINGS PLENUM OR ABOVE SPRINKLER COVERAGE, OR AS REQUIRED OR RESTRICTED BY LOCAL GOVERNING CODES.
24.2. INSTALL ALL WORK PLUMB, LEVEL, TRUE AND STRAIGHT WITH NO DISTORTIONS. SHIM AS REQUIRED USING CONCEALED SHIMS.

25. COMPLETENESS OF WORK:

25.1. ANY MATERIAL OR LABOR, NEITHER SHOWN ON THE DRAWINGS, NOR SPECIFIED, BUT WHICH IS OBVIOUSLY NECESSARY TO COMPLETE THE WORK OF A SIMILAR NATURE OR TO COMPLY WITH ALL CODES SHALL BE FURNISHED WITHOUT ADDITIONAL COST.

25.2. ALL WORK STARTED BY THE CONTRACTOR SHALL BE COMPLETED IN ITS ENTIRETY TO ITS FINAL COMPLETED STATE WHETHER COMPLETELY DEFINED IN THE DRAWINGS OR NOT.

25.3. THE WORK SHALL INCLUDE THE PROVISIONS OF ALL MATERIALS, CUTTING, EXTENSIONS, CONNECTIONS, PATCHING, PAINTING, REPAIRING, ADAPTING AND OTHER WORK INCIDENTAL THERETO, TOGETHER WITH SUCH TEMPORARY CONNECTIONS AS MAY BE REQUIRED. PROVIDE ALL NECESSARY SEALING OF PENETRATIONS LEFT FROM REMOVED EQUIPMENT OR PRODUCED BY THIS WORK, UNLESS OTHERWISE NOTED ALL WORK AND MATERIALS SHALL BE NEW AND PROVIDED BY THIS CONTRACTOR. THE WORK SHALL ALSO INCLUDE THE REMOVAL AND DISPOSAL OF MATERIALS FROM THE SITE AS DIRECTED BY MALL MANAGEMENT.

25.4. ANY WORK NOT SHOWN ON THE DRAWINGS BUT CONSIDERED NECESSARY FOR THE COMPLETION OF THE WORK IN A PROPER MANNER SHALL BE PROVIDED BY CONTRACTOR WITHOUT ADDITIONAL CHARGE.

25.5. WHERE PRESENT WORK IS DAMAGED IN THE EXECUTION OF THIS CONTRACT OR WHERE OPENINGS ARE LEFT DUE TO THE REMOVAL OF PIPES, EQUIPMENT OR APPARATUS, THE SAME SHALL BE REPAIRED OR CLOSED UP TO CORRESPOND IN MATERIAL, QUALITY, SHAPE AND FINISH WITH THAT OF SIMILAR AND ADJOINING WORK AND FIRE RATING, UNLESS OTHERWISE CALLED FOR. WHERE DAMAGE IS NOT REPAIRABLE, NEW ITEMS OR EQUIPMENT SHALL BE PROVIDED AT CONTRACTOR'S EXPENSE.

26. FINISHED FLOORING:

26.1. GENERAL CONTRACTOR WILL BE RESPONSIBLE FOR PROTECTING FINISHED FLOORING SURFACES FROM DAMAGE BY SUB-CONTRACTORS.

26.2. THE CONTRACTOR SHALL EXAMINE THE FLOOR SLAB CONDITION TO DETERMINE TO WHAT EXTENT FLOOR PREPARATION, LEVELING, CHIP HAMMERING, ETC. WILL BE NECESSARY TO FURNISH A SMOOTH, LEVEL SUBSTRATE FOR THE PROPER INSTALLATION OF ALL FLOORING MATERIALS. THE COST OF SUCH WORK SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. UNEVEN SUBSTRATE WILL NOT BE ACCEPTED AS AN EXCUSE FOR POORLY INSTALLED FLOORING MATERIALS.

27. TILE:

ALL TILES SHOULD MEET OR EXCEED THE FOLLOWING REQUIREMENTS:

TEST INDUSTRY STANDARDS
A. ABRASIVE HARDNESS ASTM C-501 > 100
B. BOND STRENGTH ASTM C-482 > 50 PSI
C. BREAK STRENGTH ASTM C-648 > 250 LBS.
D. COEFFICIENT OF FRICTION ASTM C-1028 > 0.6 (DRY)
E. COEFFICIENT OF FRICTION ASTM C-1028 > 0.6 (WET)
F. WATER ABSORPTION ASTM C-373 IMPERVIOUS
G. FACIAL DIMS. RANGE ASTM C-499 < 1.5%
H. RANGE OF THICKNESS ASTM C-499 < 0.040
I. WARPAGE (ALONG EDGE) ASTM C-485 < 1.00%
J. WARPAGE (DIAGONAL) ASTM C-485 < 0.75%
K. WEDGING ASTM C-502 < 1.00%
L. FROST RESISTANCE ASTM C-1026 RESISTANT
M. CHEMICAL RESISTANCE ASTM C-650 UNAFFECTED
N. UNAFFECTED TOLERANCE ASTM C-609 3.0 JUDDS
O. COLOR DIFFERENCE

28. DELEGATED ENGINEERS :

28.1. AS A MINIMUM, THE FOLLOWING SYSTEMS AND COMPONENTS REQUIRE FABRICATION AND ERECTION DRAWINGS WITH ENGINEERED SIGNED & SEALED SHOP DRAWINGS & CALCULATIONS, BY DELEGATED PROFESSIONAL REGISTERED ENGINEER, FOR ARCHITECT, CLIENT & BUILDING DEPARTMENT'S REVIEW.

28.1.1. CUSTOM WINDOWS, DOORS, & MULLION SYSTEMS
28.1.2. ELEVATORS, ESCALATORS, & LIFTS
28.1.3. EXTERIOR AWNINGS & CANOPIES
28.1.4. EXTERIOR DECKS
28.1.5. EXTERIOR FRAMING SYSTEMS: LIGHT GAUGE SYSTEMS, WALLS, CEILINGS, PARAPETS, & SOFFITS
28.1.6. EXTERIOR GREEN LATTICE WALLS
28.1.7. EXTERIOR LIGHT GAUGE METAL FRAMING OR COLD FORM METAL FRAMING: WALLS, CEILING, EYEBROWS, PARAPETS, OVERHANGS, ROOF DECKS
28.1.8. EXTERIOR METAL CLADDING
28.1.9. EXTERIOR SCREEN WALLS FOR ART WORK
28.1.10. EXTERIOR SIGNAGE
28.1.11. GLAZED EXTERIOR WALL SYSTEMS
28.1.12. JOIST: GIRDERS, OPEN WEB
28.1.13. METAL FABRICATIONS: CUSTOM DECORATIVE PANELS (BAHAMA STYLE PANELS), CUSTOM FENCES, CUSTOM GATES, CUSTOM LOUVERS, CUSTOM GRILLS, CUSTOM TRELLISES, CUSTOM SCREEN & SCREEN ENCLOSURES
28.1.14. POST TENSION CABLE LAYOUT & FINAL EFFECTIVE STRESSING CALCULATIONS
28.1.15. PRE-CAST CONCRETE ELEMENTS
28.1.16. PRE-FABRICATED CANOPIES & EYEBROWS
28.1.17. PRE-FABRICATED POLES: SITE LIGHTING, LIGHTNING, FLAGS
28.1.18. PRE-FABRICATED RAMPS: WOOD, METAL, & CONCRETE
28.1.19. PRE-FABRICATED TRUSSES: METAL & WOOD
28.1.20. RAILINGS SYSTEMS
28.1.21. ROOF DECKS
28.1.22. SHORING
28.1.23. TRAILERS

29. THRESHOLD ENGINEER:

IF A THRESHOLD ENGINEER IS PRESENT ON SITE AND NOT THE ENGINEER OF RECORD, ALL QUESTIONS AND DIRECTIVE MUST BE ADDRESSED WITH THE ENGINEER OF RECORD.

30. STRUCTURAL ALUMINUM:

THE DESIGN, FABRICATION, AND ASSEMBLY OF STRUCTURAL ALUMINUM FOR BUILDINGS OR STRUCTURES SHALL CONFORM TO SPECIFICATIONS FOR ALUMINUM STRUCTURES, ALUMINUM CONSTRUCTION MANUAL, SECTION 1, OF ALUMINUM ASSOCIATION.

31. PRODUCT SPECIFICATIONS AND CUT SHEETS:

31.1. THE CONTRACTOR SHALL SUBMIT PRODUCT SPECIFICATIONS AND CUT SHEETS, COMPLYING WITH ALL THE CONTRACT DOCUMENTS AND ALL APPLICABLE BUILDING CODES AND OTHER LOCAL REGULATIONS, FOR OWNER AND ARCHITECT'S REVIEW AND APPROVAL BEFORE PURCHASE AND INSTALLATION. CONTRACTOR SHALL SUBMIT THIS SPECIFICATIONS AND CUT SHEETS TO OWNER AND ARCHITECT WITH SUFFICIENT TIME TO BE REVIEWED AND PROCESSED SO AS TO CAUSE NO DELAY IN CONSTRUCTION. THE FOLLOWING IS A PARTIAL LIST OF SUBMITTALS REQUIRED:

A. HARDWARE
B. TILES AND GROUT
C. SEALERS, AND COATINGS
D. PAINT
E. SEALANTS
F. SIGNAGE
G. PLUMBING FIXTURES AND DRAINS
H. LIGHTING FIXTURES
I. A/C GRILLS
J. ELECTRICAL SWITCHES AND OUTLETS
K. ELECTRICAL PANELS
L. ELECTRICAL EQUIPMENT
M. MILLWORK
N. INTERIOR FINISHES

32. PENETRATIONS AND CUTTING:

32.1. CUTTING OR DRILLING OF ANY STRUCTURAL MEMBER IS NOT PERMITTED WITHOUT THE PRIOR WRITTEN APPROVAL OF THE ARCHITECT. THE ARCHITECT SHOULD BE GIVEN ADVANCE NOTICE TO ALLOW ADEQUATE TIME TO REVIEW AND EVALUATE EACH OF THE CONTRACTOR'S PROPOSALS.

32.2. ALL FLOOR SLAB PENETRATIONS, INCLUDING THOSE REQUIRED FOR MECHANICAL, PLUMBING, ELECTRICAL UTILITIES MUST BE PACKED WITH APPROVED FIRE SAFE MATERIAL AND SEALED BETWEEN EDGES OF SLAB OPENINGS AND DUCT PIPE, CONDUIT, ETC., AS REQUIRED TO MAINTAIN THE FLOOR INTEGRITY AND HOURLY FIRE RATINGS SPECIFIED AND/OR AS REQUIRED BY CODE.

33. SAFETY OSHA AND LABOR LAWS :

33.1. THE STRCUTURE IS DESIGNED TO BE SELF-SUPPORTING AND STABLE AFTER THE BUILDING IS FULLY COMPLETED. IT IS THE CONTRACTOR'S SOLE RESPONSIBILITY TO DETERMINE ERECTION PROCEDURE AND SEQUENCE AND INSURE THE SAFETY OF THE BUILDING AND ITS COMPONENT PARTS DURING ERECTION. THIS INCLUDES THE ADDITION OF WHATEVER SHORING, TEMPORARY BRACING, ETC. THAT MAY BE NECCESARY. SUCH MATERIAL SHALL REMAIN THE CONTRACTOR'S PROPERTY AFTER COMPLETION OF THE PROJECT.

33.2. THE STRUCTURAL ENGINEER/ARCHITECT OF RECORD DOES NOT POSSES, NOR PRESUMES TO POSSES ANY KNOWLEDGE OR EXPERTISE IN MATTERS TO JOB SITE EMPLOYEE SAFETY, OSHA OR LABOR LAW REQUIREMENTS FOR A CONSTRUCTION PROJECT. SAFETY AND COMPLIANCE WITH OSHA AND LABOR LAWS ARE THE ABSOLUTE RESPONSIBILITY OF THE GENERAL CONTRACTOR AND THOSE CONSULTANTS HE HIRES TO ADDRESS THESE MATTERS. THE STRUCTURAL ENGINEER/ARCHITECT OF RECORD SPECIALIZES IN STRUCTURAL DESIGN/ARCHITECTURE ONLY, AND THE BOARD OF PROFESSIONAL REGULATION FORBIDS HIM/HER FROM ASSUMING RESPONSIBILITY OUTSIDE HIS/HER AREA OF EXPERTISE.

34. APPLICABLE CODES :

34.1 (F.B.C.) FLORIDA BUILDING CODE, 2014 EDITION
34.2 (F.R.C.) FLORIDA RESIDENTIAL CODE, 2014 EDITION
34.3 (F.E.B.C.) FLORIDA EXISTING BUILDING CODE, 2014 EDITION
34.4 (F.M.C.) FLORIDA MECHANICAL CODE, 2014 EDITION
34.5 (F.E.C.) FLORIDA ELECTRICAL CODE, 2014 EDITION
34.6 (F.P.C.) FLORIDA PLUMBING CODE, 2014 EDITION
34.7 (F.F.P.C.) FLORIDA FIRE PREVENTION CODE (5TH EDITION)
34.8 (N.F.P.A.) LIFE SAFETY CODE HANDBOOK - LATEST EDITION
34.9 (F.A.C.) FLORIDA ACCESSIBILITY CODE, 2014 EDITION

JORGE L VILLAVICENCIO

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Date: 2023.08.28 11:39:40 -04'00'

THE GENERAL CONTRACTOR SHALL CALL "SUNSHINE STATE ONE CALL", 811 OR 1-800-432-4770, 48 HOURS BEFORE DIGGING IN FLORIDA TO COORDINATE LOCATION OF UTILITIES WITHIN THE PUBLIC AREAS OF THE PROJECT. NO DIGGING SHALL COMMENCE UNTIL ALL OF THE UTILITY COMPANIES HAVE BEEN CONTACTED AND LOCATION OF UTILITY LINES TOOK PLACE.

REVISIONS

Rev.	Date	Description

FIDANZA'S FAMILY HOUSE
PERMIT SET
11041 SW 77TH AVE, PINECREST, FL 33156

STATE OF FLORIDA
JORGE L VILLAVICENCIO
Architectural Seal
No. AR0012110
Registration License No. AA0003568
REGISTERED ARCHITECT

VILLA & ASSOCIATES INC.
ARCHITECTURE - PLANNING - INTERIOR DESIGN
5801 SW 69 AVENUE - MIAMI, FLORIDA 33155
TEL. 305-613-0865 - E-Mail Jvillarchitect@gmail.com

CONSULTANT : ARCHI-TEK STUDIO CORP.
TEL. 305-799-8016 - E-Mail magullar@architekstudio.com

DATE: 10-20-2022
SCALE: AS SHOWN
PROJECT NO: GENERAL NOTES
DRAWING NO : A-0.1

Miami Dade County Department of Regulatory and Economic Resources - Job Copy
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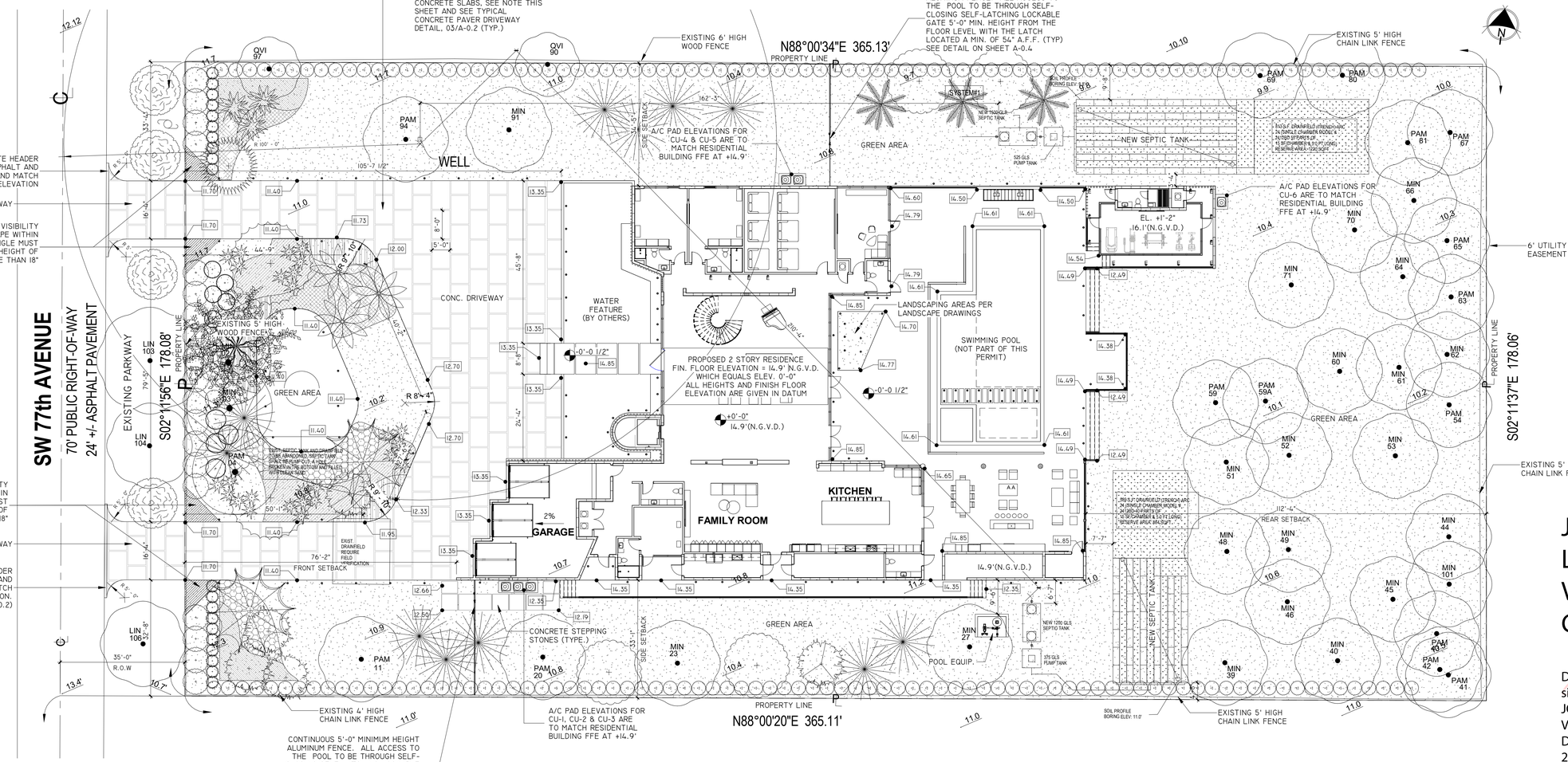
A-0.1 - GENERAL NOTES.pdf



01 A-0.2 SITE PLAN
1/16" = 1'-0"

ZONING CALCULATIONS

EU-1 LOW DENSITY SINGLE FAMILY

REF: NEW TWO STORY SINGLE FAMILY

ZONING REQUIREMENTS EU-1

	MAXIMUM REQUIRED	PROPOSED
MIN. LOT SIZE (NET LOT AREA)	-	65,014 SF.
MIN. SETBACK: FRONT	50'-0"	75'-10"
MIN. SETBACK: STREET SIDE	30'-0"	-
MIN. SETBACK: INTERIOR SIDE	20'-0"	31'-8" & 32'-10"
MIN. SETBACK: REAR	25'-0"	112'-4"
MIN. BUILDING HEIGHT	35'-0" ft. (above avg. adj grade)	34'- 10"
MAX. BUILDING COVERAGE 20%	13,002 SF	11,627 SF
MAX. BUILDING 2ND FL (F.A.R) 10%	6,501 SF	5,625 SF

FOLIO NUMBER: 20-5011-000-0390 ADDRESS: 11041 SW 77TH AVENUE PINECREST, FL 33156.

FLOOD ZONE:X BASE FLOOD ELEVATION: -

CITY FLOOR CRITERIA:- HIGHEST CROWN OF ROAD: 13.40'

ELEVATION	LOWEST FLOOR	GARAGE/STORAGE	ADJ. GRADE
PROPOSED	14.90'	13.61'	11.00'

AS-BUILT ELEVATION SURVEY IS REQUIRED BEFORE MAKING ANY INSPECTION ABOVE LOWEST FLOOR AND AS-BUILT ELEVATION CERTIFICATE IS REQUIRED BEFORE ISSUANCE OF CERTIFICATE OF OCCUPANCY OR COMPLETION (11C3-3D3)

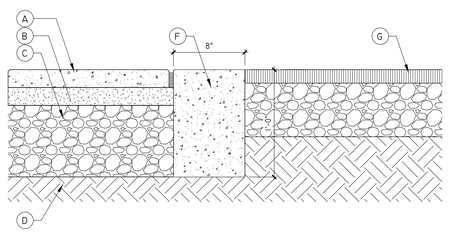
LEGAL DESCRIPTION :

THE NORTH 1/2, OF THE WEST 1/2, OF THE SOUTHWEST 1/4, OF THE SOUTHWEST 1/4, OF NORTHWEST 1/4, LESS THE NORTH 155 FEET, AND NORTH 1/2, OF THE WEST 66 FEET, OF THE EAST 1/2, OF THE SOUTHWEST 1/4, OF THE SOUTHWEST 1/4, OF NORTHWEST 1/4, LESS THE NORTH 155 FEET THEREOF, SECTION 11,TOWNSHIP 55 SOUTH, RANGE 40 EAST, AND LESS THE WEST 35 FEET THEREOF, FOR ROAD PURPOSES LYING AND BEGING IN MIAMI -DADE COUNTRY, FLORIDA.

GENERAL NOTES:

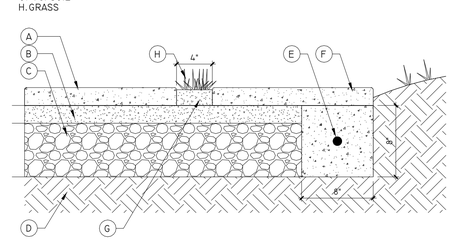
1. CONCRETE SHALL HAVE 2,500 PSI COMPRESSIVE STRENGTH AT 28 DAYS, UNLESS OTHERWISE NOTED (U.O.W.).
2. ALL REINFORCING STEEL SHALL BE DEFORMED BARS, AND SHALL HAVE A MINIMUM YIELD STRENGTH OF 60,000 PSI GRADE 60, AND MEET ASTM A-36 SPECS.
3. ALL STRUCTURAL STEEL SHALL HAVE A MINIMUM YIELD STRENGTH OF 36,000 PSI, AND MEET ASTM A-36 SPECS.
4. ALL DETAILING, FABRICATION AND PLACING OF REINFORCING BARS MUST FOLLOW THE ACI "MANUAL OF STANDARD PRACTICE FOR DETAILING REINFORCED CONCRETE STRUCTURES", U.O.N.
5. CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONSAT JOB SITE BEFORE STARTING WORK. DISCREPANCIES SHALLBE BROUGHT TO THE ATTENTION OF THE ARCHITECT/ENGINEER BEFORE PROCEEDING WITH THE WORK.
6. STRUCTURAL DRAWINGS SHALL BE WORKED TOGETHER WITH ARCHITECTURAL, A/C, ELECTRICAL AND MECHANICAL DWGS., TO LOCATE OPENINGS, DRAINS, SLEEVES, SLOPES, DEPRESSED SLABS, BOLTS, CURBS, ETC.
7. ALL CONCRETE WORK SHALL BE IN ACCORDANCE WITH ACI-301 "SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS"
8. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR ARCHITECT/ ENGINEER'S APPROVAL.
9. DO NOT SCALE DRAWINGS, DIMENSIONS GOVERN.
10. CONTRACTOR SHALL OBTAIN LATEST SET OF DRAWINGS, INCLUDING ANY REVISIONS, BEFORE STARTING CONSTRUCTION.
11. NO CHANGES OR SUBSTITUTIONS SHALL BE MADE WITHOUT THE WRITTEN APPROVAL OF THE ARCHITECT.
12. THIS OFFICE DOES NOT ACCEPT ANY RESPONSIBILITY FOR THE INTERPRETATION OF THESE PLANS BY OTHERS, UNLESS REQUESTED IN WRITING, AND IT IS GIVEN THE AUTHORITY TO CHECK AND APPROVE SHOP DRAWINGS, AND TO VERIFY THE ACTUAL PLACING OF REBARS IN THE FIELD
13. ALL CONSTRUCTION SHALL MEET THE REQUIREMENTS OF LOCAL ORDINANCES AND THE "FLORIDA BUILDING CODE", CURRENT EDITION.

LEGEND:
A. 42 SF. MAX. AREA, 2" MIN. THICK STONE OR CONCRETE PAVER SELECTED BY OWNER
B. 2" MAX. LEVELING SAND
C. 6" MIN. LIMEROCK
D. COMPACTED BASE (98% DENSITY)
E. 2 #5 MIN. CONTINUOUS
F. CONT. CONCRETE SLAB STRIP
G. EXISTING ASPHALT PAVEMENT



02 A-0.2 TYPICAL CONCRETE PAVER ASPHALT TRANSITION DETAIL
1 1/2" = 1'-0"

LEGEND:
A. 42 SF. MAX. AREA, 2" MIN. THICK STONE OR CONCRETE PAVER SELECTED BY OWNER
B. 2" MAX. LEVELING SAND
C. 6" MIN. LIMEROCK
D. COMPACTED BASE (98% DENSITY)
E. 1 #5 MIN. CONTINUOUS IN CONCRETE EDGE (NO REINF. IN RIGHT OF WAY)
F. MORTAR SET END PAVER
G. TOPSOIL
H. GRASS



03 A-0.2 TYPICAL CONCRETE PAVER DRIVEWAY DETAIL
1 1/2" = 1'-0"

MIAMI DADE NOTICE OF ACCEPTANCE (NOAs) PRODUCT APPROVAL AND SEPARATED PERMITS:

CONTRACTOR SHALL BE REQUIRED TO OBTAIN SEPARATE PERMIT AND PROVIDE MIAMI-DADE PRODUCT APPROVAL FOR WINDOWS, DOORS, OVERHEAD DOORS, SHUTTERS, TRUSSES, LOUVERS, STOREFRONTS, ROOFING SYSTMES AND WATERPROOFING AND ANY OTHER FEATURES REQUIRED BY CODE OR CITY/COUNTY/STATE ORDINANCE

- *NOA No. 18-0319.09 OR APPROVED EQUAL - ALUMINUM/GLASS DOORS (EXP. DEC./24/2023)*
- *NOA NO. 16-0116.04 OR APPROVED EQUAL - ALUMINUM/GLASS WINDOWS (EXP. APRIL./03/2023)*
- *NOA No. 20-0731.03 OR APPROVED EQUAL - WATERPROOFING FOR CONCRETE DECKS AND BALCONIES (EXP. FEB./20/2025)*
- *NOA NO. 21-0419.07 OR APPROVED EQUAL - PIVOT WOOD DOOR (EXP. AUGUST./16/2023)*
- *NOA NO. 18-0312.03 OR APPROVED EQUAL - GLASS RAILING SYSTEM (EXP. APRIL./26/2023)*

REVISIONS		
Rev.	Date	Description

FIDANZA'S FAMILY HOUSE
NEW CONSTRUCTION
11041 SW 77TH AVE, PINECREST, FL 33156

JORGE L VILLAVICENCIO
STATE OF FLORIDA
LICENSED ARCHITECT
Certificate No. AR0003588
Architectural Seal
R0012110

Digitally signed by JORGE L VILLAVICENCIO
Date: 2023.08.28 11:37:49 -04'00'

VILLA & ASSOCIATES INC.
ARCHITECTURE - PLANNING - INTERIOR DESIGN
5801 SW 69 AVENUE - MIAMI, FLORIDA 33155
TEL. 305-613-0865 - E-Mail Jvillarchitect@gmail.com

CONSULTANT : ARCHI-TEK STUDIO CORP.
TEL. 305-799-8016 - E-Mail magullar@architekstudio.com

DATE:	SCALE:
10-20-2022	AS SHOWN

PROJECT NO: SITE PLAN

DRAWING NO : A-0.2

Miami Dade County Department of Regulatory and Economic Resources - Job Copy
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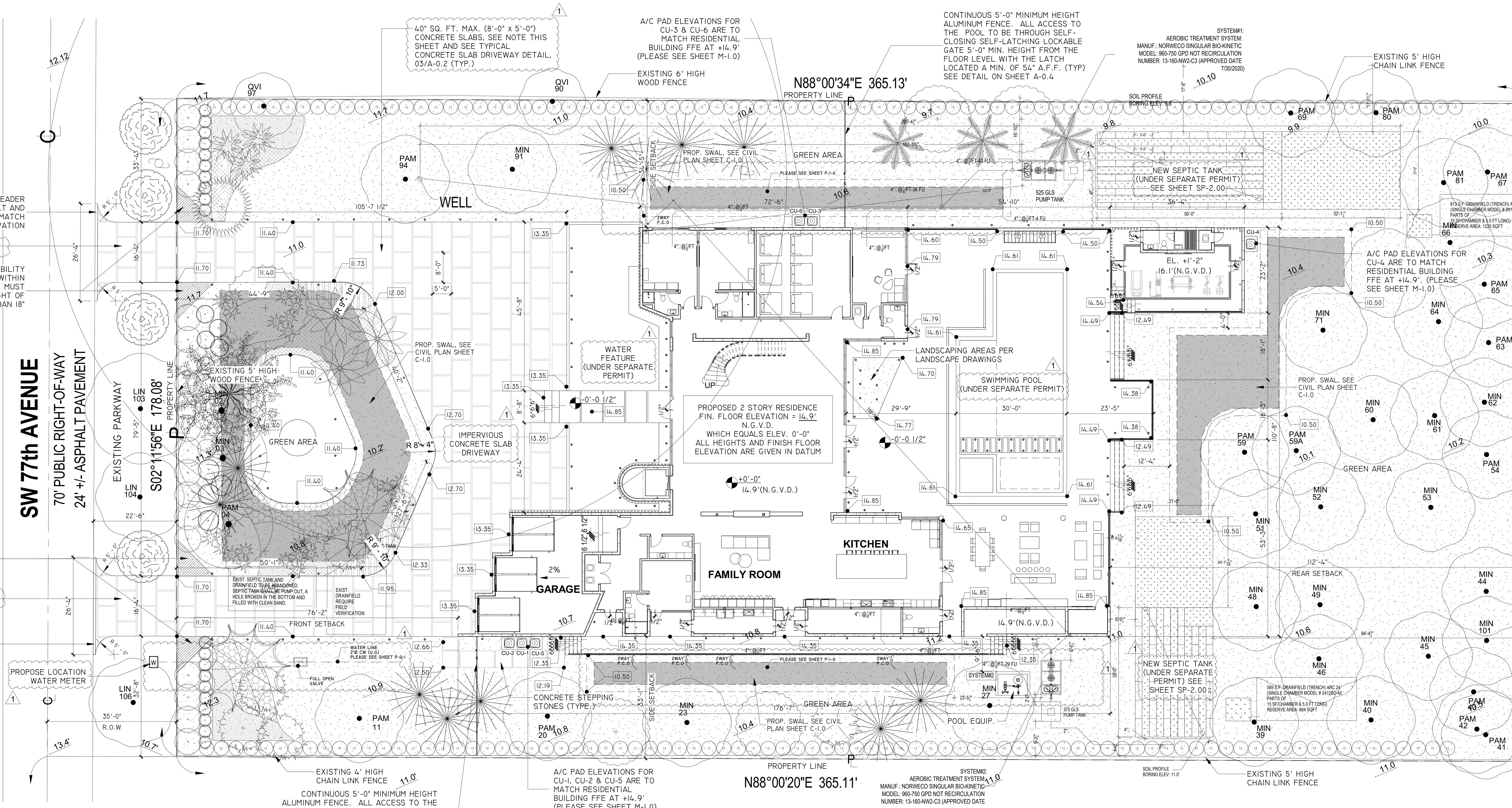
A-0.2 - SITE PLAN.pdf



01 A-0.2 SITE PLAN
1/16" = 1'-0"

JORGE L VILLAVICENCIO
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Date: 2024.01.16 19:04:14 -05'00'

ZONING CALCULATIONS

EU-1 LOW DENSITY SINGLE FAMILY

REF: NEW TWO STORY SINGLE FAMILY

ZONING REQUIREMENTS EU-1

	MAXIMUM REQUIRED	PROPOSED
MIN. LOT SIZE (NET LOT AREA)	-	65,014 SF.
MIN. SETBACK: FRONT	50'-0"	75'-10"
MIN. SETBACK: STREET SIDE	30'-0"	-
MIN. SETBACK: INTERIOR SIDE	20'-0"	31'-8" & 32'-10"
MIN. SETBACK: REAR	25'-0"	112'-4"
MIN. BUILDING HEIGHT	35'-0" ft. (above avg. adj grade)	34'- 10"
MAX. BUILDING COVERAGE 20%	13,002 SF	11,627 SF
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FOLIO NUMBER: 20-5011-000-0390 ADDRESS: 11041 SW 77TH AVENUE PINECREST, FL 33156.

FLOOD ZONE:X BASE FLOOD ELEVATION: -

CITY FLOOR CRITERIA:- HIGHEST CROWN OF ROAD: 13.40'

ELEVATION	LOWEST FLOOR	GARAGE/STORAGE	ADJ. GRADE
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LEGAL DESCRIPTION :

THE NORTH 1/2, OF THE WEST 1/2, OF THE SOUTHWEST 1/4, OF THE SOUTHWEST 1/4, OF NORTHWEST 1/4, LESS THE NORTH 155 FEET, AND NORTH 1/2, OF THE WEST 66 FEET, OF THE EAST 1/2, OF THE SOUTHWEST 1/4, OF THE SOUTHWEST 1/4, OF NORTHWEST 1/4, LESS THE NORTH 155 FEET THEREOF, SECTION 11,TOWNSHIP 55 SOUTH, RANGE 40 EAST, AND LESS THE WEST 35 FEET THEREOF, FOR ROAD PURPOSES LYING AND BEGING IN MIAMI -DADE COUNTRY, FLORIDA.

NOTES :

1. NO FILL OF ANY KIND CAN BE BROUGHT ON SITE OR TO THE ROW OUTSIDE OF THE BUILDING FOOTPRINT.

2. NO RUNOFF GENERATED FROM THE DRIVEWAY IS PERMITTED TO DISCHARGE DIRECTLY TO THE ROW OR ADJACENT PROPERTIES.

3. THE ROW SWALE IS TO BE GRADED USING THE VILLAGE PW STANDARD.

4. NO TREES ARE TO BE PLANTED IN THE ROW BEFORE A CONDITIONAL APPROVAL OF THE ROUGH GRADING OF THE SWALE HAS BEEN APPROVED BY PUBLIC WORKS.

5. NO SHRUBS ARE TO BE PLANTED IN THE ROW AND ANY EXISTING SHRUBS ARE TO BE REMOVED.

6. NO IRRIGATION, LIGHTING, OR ELECTRICAL COMPONENTS OF ANY KIND MAY BE INSTALLED IN THE ROW.

7. NO MATERIALS OF ANY KIND WILL BE STORED FOR ANY LENGTH OF TIME ON THE PUBLIC SWALE.

8. EXISTING SIDEWALKS WILL BE MAINTAINED AT ALL TIMES, FREE OF ANY LOOSE MATERIAL, AND OPEN TO PEDESTRIAN TRAFFIC AT ALL TIMES. NO VEHICLES CAN PARK ON THE SIDEWALK AT ANY TIME.

9. ANY SIDEWALK CROSSED BY A D/W APPROACH MUST BE REPLACED WITH 6" THICK SIDEWALK AND EXTEND TO THE NEXT ADJACENT WHOLE FLAG ON EITHER SIDE OF THE NEW APPROACH. LONGITUDINAL SLOPE CANNOT EXCEED 5% AND MAXIMUM CROSS SLOPE IS 2%. ALL SIDEWALK CONSTRUCTION THAT INTERSECTS WITH A CROSSWALK MUST BE PARALLEL WITH THAT CROSS WALK AND WILL HAVE DETECTABLE WARNING SURFACE PLACED PERMANENTLY IN CONCRETE - NO SCREW-DOWN DETECTABLE WARNING SURFACE IS PERMITTED. ALL SIDEWALK IN THE ROW WILL BE A MINIMUM OF 10" FROM THE NEAREST EDGE OF PAVEMENT AND MARKED AS SUCH IN THE SIGNED AND SEALED PLANS.

10. ALL WORK CONDUCTED IN THE ROW WILL IMPLEMENT THE APPLICABLE FDOT STANDARD INDEX 600 SERIES FOR MOT.

11. ALL SIDEWALK REPLACEMENT WILL BE OPEN TO TRAFFIC WITHIN 48 HOURS OF THE SIDEWALK BEING CLOSED FOR DEMO. THIS INCLUDES DEMOLITION OF EXISTING SIDEWALK, PLACING FORMS, PLACING AND FINISHING CONCRETE AND STRIPPING FORMS.

GENERAL NOTES:

1. CONCRETE SHALL HAVE 2,500 PSI COMPRESSIVE STRENGTH AT 28 DAYS, UNLESS OTHERWISE NOTED (U.O.W.).

2. ALL REINFORCING STEEL SHALL BE DEFORMED BARS, AND SHALL HAVE A MINIMUM YIELD STRENGTH OF 60,000 PSI GRADE 60, AND MEET ASTM A-36 SPECS.

3. ALL STRUCTURAL STEEL SHALL HAVE A MINIMUM YIELD STRENGTH OF 36,000 PSI, AND MEET ASTM A-36 SPECS.

4. ALL DETAILING, FABRICATION AND PLACING OF REINFORCING BARS MUST FOLLOW THE ACI "MANUAL OF STANDARD PRACTICE FOR DETAILING REINFORCED CONCRETE STRUCTURES", U.O.N.

5. CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONSAT JOB SITE BEFORE STARTING WORK. DISCREPANCIES SHALLBE BROUGHT TO THE ATTENTION OF THE ARCHITECT/ENGINEER BEFORE PROCEEDING WITH THE WORK.

6. STRUCTURAL DRAWINGS SHALL BE WORKED TOGETHER WITH ARCHITECTURAL, A/C, ELECTRICAL AND MECHANICAL DWGS., TO LOCATE OPENINGS, DRAINS, SLEEVES, SLOPES, DEPRESSED SLABS, BOLTS, CURBS, ETC.

7. ALL CONCRETE WORK SHALL BE IN ACCORDANCE WITH ACI-301 "SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS"

8. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR ARCHITECT/ ENGINEER'S APPROVAL.

9. DO NOT SCALE DRAWINGS, DIMENSIONS GOVERN.

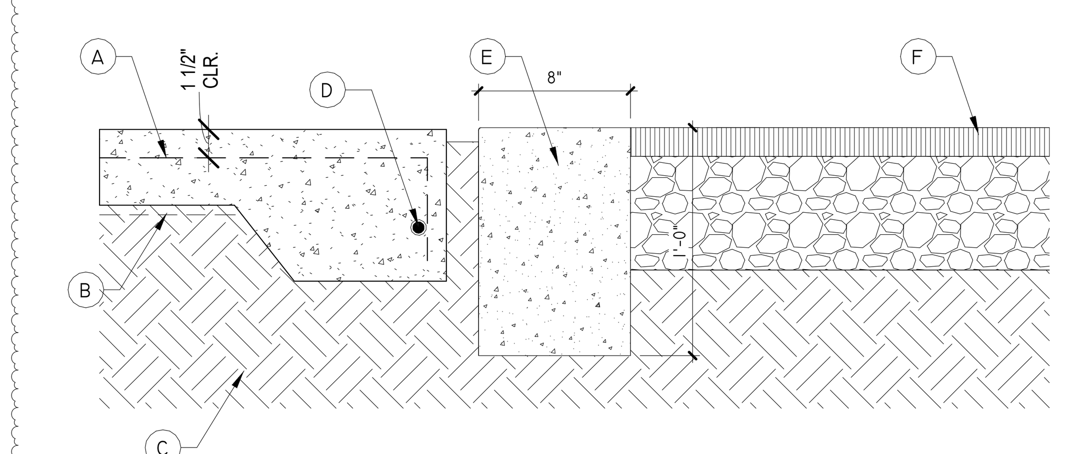
10. CONTRACTOR SHALL OBTAIN LATEST SET OF DRAWINGS, INCLUDING ANY REVISIONS, BEFORE STARTING CONSTRUCTION.

11. NO CHANGES OR SUBSTITUTIONS SHALL BE MADE WITHOUT THE WRITTEN APPROVAL OF THE ARCHITECT.

12. THIS OFFICE DOES NOT ACCEPT ANY RESPONSIBILITY FOR THE INTERPRETATION OF THESE PLANS BY OTHERS, UNLESS REQUESTED IN WRITING, AND IT IS GIVEN THE AUTHORITY TO CHECK AND APPROVE SHOP DRAWINGS, AND TO VERIFY THE ACTUAL PLACING OF REBARS IN THE FIELD

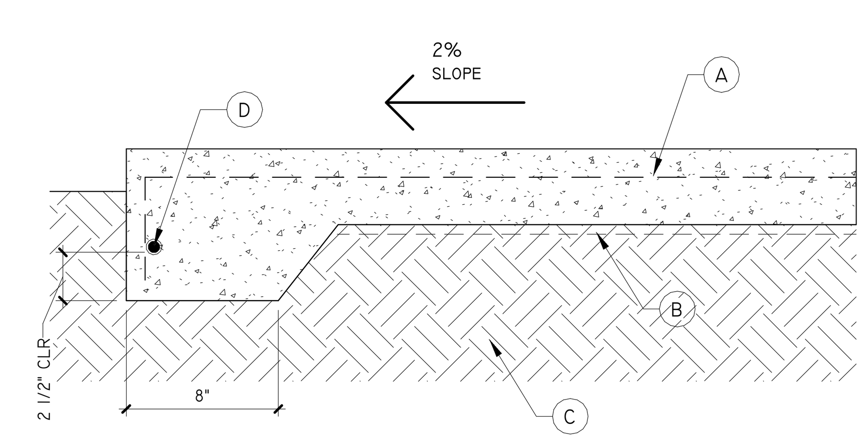
13. ALL CONSTRUCTION SHALL MEET THE REQUIREMENTS OF LOCAL ORDINANCES AND THE "FLORIDA BUILDING CODE", CURRENT EDITION.

LEGEND:
A. 4" CONC. SLAB REINF. WITH 6"X6"-W1.4XW1.4 W.W.M
B. VAPOR BARRIER
C. WELL COMPACTED FILL
D. 1#5 CONT.
E. CONT. CONCRETE SLAB STRIP
F. EXISTING ASPHALT PAVEMENT



02 A-0.2 TYPICAL CONCRETE SLAB /ASPHALT TRANSITION DETAIL
1 1/2" = 1'-0"

LEGEND:
A. 4" CONC. SLAB REINF. WITH 6"X6"-W1.4XW1.4 W.W.M
B. VAPOR BARRIER
C. WELL COMPACTED FILL
D. 1#5 CONT.



03 A-0.2 TYPICAL CONCRETE SLAB DETAIL
1 1/2" = 1'-0"

MIAMI DADE NOTICE OF ACCEPTANCE (NOAs)
PRODUCT APPROVAL AND SEPARATED PERMITS:

CONTRACTOR SHALL BE REQUIRED TO OBTAIN SEPARATE PERMIT AND PROVIDE MIAMI-DADE PRODUCT APPROVAL FOR WINDOWS, DOORS, OVERHEAD DOORS, SHUTTERS, TRUSSES, LOUVERS, STOREFRONTS, ROOFING SYSTMES AND WATERPROOFING AND ANY OTHER FEATURES REQUIRED BY CODE OR CITY/COUNTY/STATE ORDINANCE

·NOA No. 18-0319.09 OR APPROVED EQUAL - ALUMINUM/GLASS DOORS (EXP. DEC./24/2023)
NOA NO. 18-0116.04 OR APPROVED EQUAL - ALUMINUM/GLASS WINDOWS (EXP. APRIL./03/2023)
·NOA No. 20-0731.03 OR APPROVED EQUAL - WATERPROOFING FOR CONCRETE DECKS AND BALCONIES (EXP. FEB./20/2025)
.NOA NO. 21-0419.07 OR APPROVED EQUAL - PIVOT WOOD DOOR (EXP. AUGUST./16/2023)
.NOA NO. 18-0312.03 OR APPROVED EQUAL - GLASS RAILING SYSTEM (EXP. APRIL./26/2023)

SEPTIC TANK NOTE:

FOR SEPTIC TANK AND DRAIN FIELD DETAIL TECHNICAL INFORMATION REFER TO SHEET S-2.00 AND P-0-1

SEPARATE PERMIT

1- SWIMMING POOL & POOL DECK UNDER SEPARATE PERMIT
2- WATER FEATURE UNDER SEPARATE PERMIT
3- SEPTIC TANK UNDER SEPARATE PERMIT

REVISIONS

Rev.	Date	Description
1	10-9-2023	Building comment

FIDANZA'S FAMILY HOUSE
NEW CONSTRUCTION
11041 SW 77TH AVE, VILLAGE OF PINECREST, FL 33156

STATE OF FLORIDA · REGISTERED ARCHITECT · JORGE VILLAVICENCIO · AR0012110 · Architectural Seal · Corporation License AA0003589

VILLA & ASSOCIATES INC.
ARCHITECTURE - PLANNING - INTERIOR DESIGN
5801 SW 69 AVENUE - MIAMI, FLORIDA 33155
TEL. 305-613-0865 - E-Mail Jvillarchitect@gmail.com
CONSULTANT : ARCHI-TEK STUDIO CORP.
TEL. 305-799-8016 - E-Mail maguilar@architekstudio.com

DATE: 10-20-2022	SCALE: AS SHOWN
PROJECT NO: SITE PLAN	
DRAWING NO : A-0.2	

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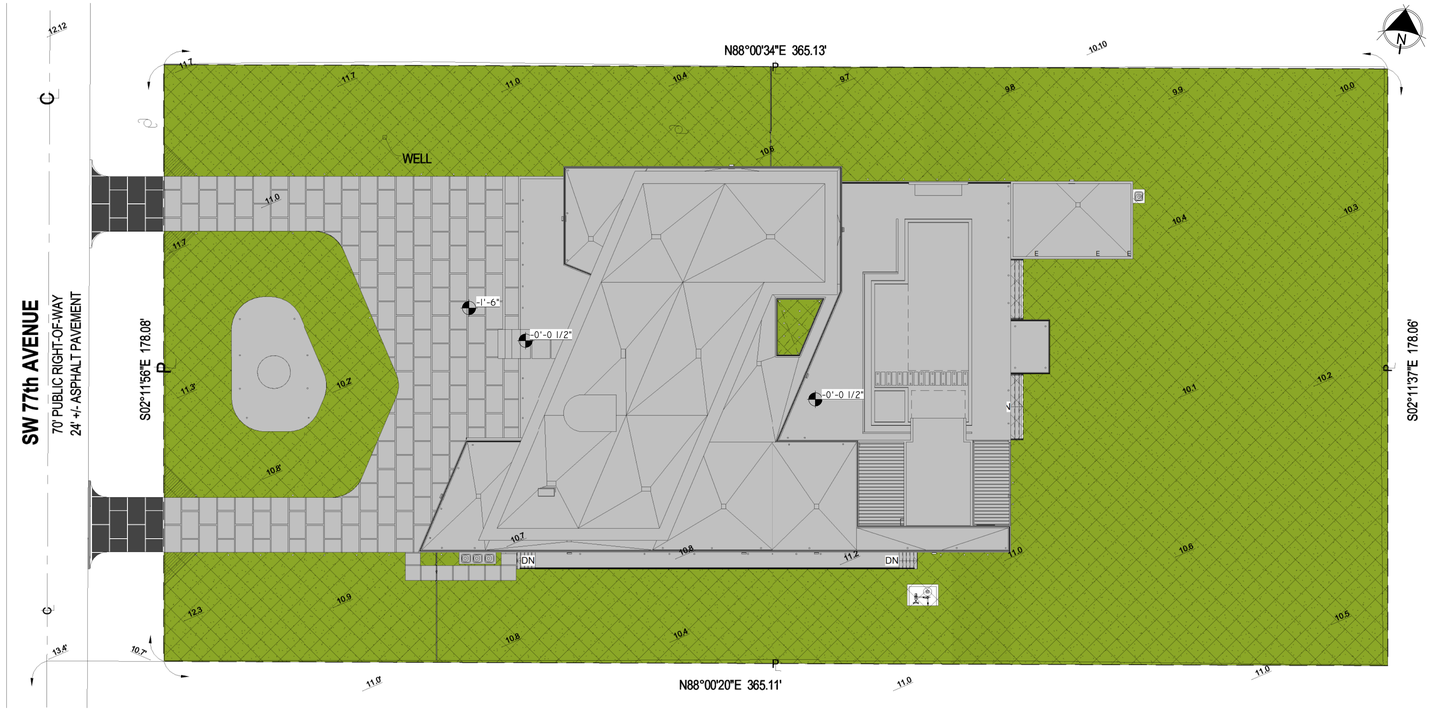
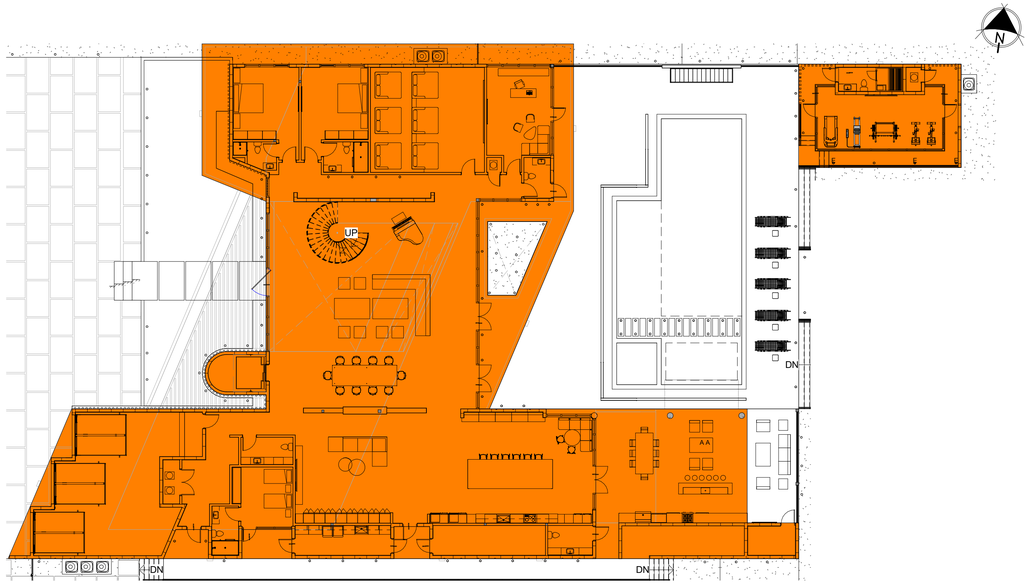


3 A-0.3 SITE PLAN IMPERVIOUS / PERVIOUS
3/64" = 1'-0"

IMPERVIOUS/ PERVIOUS CALCULATION	
HOUSE FOOTPRINT	= 12,125 SQ. FT.
GYM	= 840 SQ. FT.
POOL	= 1,628 SQ. FT.
POOL DECK	= 2,760 SQ. FT.
WATER FEATURE	= 918 SQ. FT.
DRIVEWAY	= 6,202 SQ. FT.
CONCRETE PATH	= 1,927 SQ. FT.
TOTAL IMPERVIOUS AREA =	26,400 SQ. FT. (40.61%)
TOTAL PERVIOUS AREA =	38,614 SQ. FT. (59.39%)

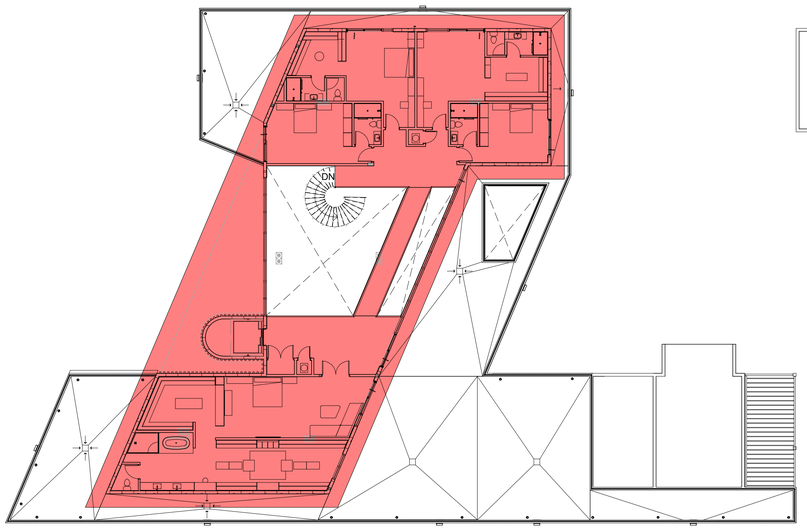
IMPERVIOUS AREA

PERVIOUS AREA (GRASS AREA)



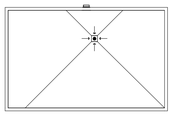
1 A-0.3 GROUND FLOOR AREA
1/16" = 1'-0"

TOTAL GROUND FLOOR (F.A.R.)= 11,715 S.F.
PROVIDED: 18.0% = 11,860 SQ. FT. REQUIRED: 20% MIN. = 13,002 SQ. FT. MIN.



2 A-0.3 SECOND FLOOR AREA
1/16" = 1'-0"

TOTAL SECOND FLOOR (F.A.R.)= 5,699 S.F.
PROVIDED: 8.76% = 5,699 SQ. FT. REQUIRED: 10% MIN. = 6,501 SQ. FT. MIN.



JORGE L VILLAVICENCIO

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REVISIONS

Rev.	Date	Description

FIDANZA'S FAMILY HOUSE
NEW CONSTRUCTION
11041 SW 77TH AVE, PINECREST, FL 33156

STATE OF FLORIDA
JORGE L VILLAVICENCIO
AR0012110
REGISTERED ARCHITECT

VILLA & ASSOCIATES INC.
ARCHITECTURE - PLANNING - INTERIOR DESIGN
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TEL. 305-799-8016 - E-Mail maguilar@architekstudio.com

DATE: 10-20-2022
SCALE: AS SHOWN
PROJECT NO: SITE PLAN -ZONING DATA
DRAWING NO : A-0.3

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OUTDOOR SWIMMING BARRIER
COMPLYING WITH 7TH EDITION (2020) R4501.17.1.1 THROUGH R4501.17.1.14

R4501.17RESIDENTIAL SWIMMING BARRIER REQUIREMENT.
RESIDENTIAL SWIMMING POOLS SHALL COMPLY WITH SECTIONS R4501.17.1 THROUGH R4501.17.3.

EXCEPTION: A SWIMMING POOL WITH AN APPROVED SAFETY POOL COVER COMPLYING WITH ASTM F1346.

R4501.17.1OUTDOOR SWIMMING POOLS.

THE TOP OF THE BARRIER SHALL BE AT LEAST 48 INCHES (1219 MM) ABOVE GRADE MEASURED ON THE SIDE OF THE BARRIER WHICH FACES AWAY FROM THE SWIMMING POOL. THE MAXIMUM VERTICAL CLEARANCE BETWEEN GRADE AND THE BOTTOM OF THE BARRIER SHALL BE 2 INCHES (51 MM) MEASURED ON THE SIDE OF THE BARRIER WHICH FACES AWAY FROM THE SWIMMING POOL. WHERE THE TOP OF THE POOL STRUCTURE IS ABOVE GRADE THE BARRIER MAY BE AT GROUND LEVEL OR MOUNTED ON TOP OF THE POOL STRUCTURE. WHERE THE BARRIER IS MOUNTED ON TOP OF THE POOL STRUCTURE, THE MAXIMUM VERTICAL CLEARANCE BETWEEN THE TOP OF THE POOL STRUCTURE AND THE BOTTOM OF THE BARRIER SHALL BE 4 INCHES (102 MM).
R4501.17.1.2
THE BARRIER MAY NOT HAVE ANY GAPS, OPENINGS, INDENTATIONS, PROTRUSIONS, OR STRUCTURAL COMPONENTS THAT COULD ALLOW A YOUNG CHILD TO CRAWL UNDER, SQUEEZE THROUGH, OR CLIMB OVER THE BARRIER AS HEREIN DESCRIBED BELOW. ONE END OF A REMOVABLE CHILD BARRIER SHALL NOT BE REMOVABLE WITHOUT THE AID OF TOOLS. OPENINGS IN ANY BARRIER SHALL NOT ALLOW PASSAGE OF A 4-INCH-DIAMETER (102 MM) SPHERE.
R4501.17.1.3
SOLID BARRIERS WHICH DO NOT HAVE OPENINGS SHALL NOT CONTAIN INDENTATIONS OR PROTRUSIONS EXCEPT FOR NORMAL CONSTRUCTION TOLERANCES AND TOOLED MASONRY JOINTS.
R4501.17.1.4
WHERE THE BARRIER IS COMPOSED OF HORIZONTAL AND VERTICAL MEMBERS AND THE DISTANCE BETWEEN THE TOPS OF THE HORIZONTAL MEMBERS IS LESS THAN 45 INCHES (1143 MM), THE HORIZONTAL MEMBERS SHALL BE LOCATED ON THE SWIMMING POOL SIDE OF THE FENCE. SPACING BETWEEN VERTICAL MEMBERS SHALL NOT EXCEED 1-3/4 INCHES (44 MM) IN WIDTH. WHERE THERE ARE DECORATIVE CUTOUTS WITHIN VERTICAL MEMBERS, SPACING WITHIN THE CUTOUTS SHALL NOT EXCEED 1-3/4 INCHES (44 MM) IN WIDTH.
R4501.17.1.5
WHERE THE BARRIER IS COMPOSED OF HORIZONTAL AND VERTICAL MEMBERS AND THE DISTANCE BETWEEN THE TOPS OF THE HORIZONTAL MEMBERS IS 45 INCHES (1143 MM) OR MORE, SPACING BETWEEN VERTICAL MEMBERS SHALL NOT EXCEED 4 INCHES (102 MM). WHERE THERE ARE DECORATIVE CUTOUTS WITHIN VERTICAL MEMBERS, SPACING WITHIN THE CUTOUTS SHALL NOT EXCEED 1-3/4 INCHES (44 MM) IN WIDTH.
R4501.17.1.6
MAXIMUM MESH SIZE FOR CHAIN LINK FENCES SHALL BE A 21/4-INCH SQUARE (57 MM) UNLESS THE FENCE IS PROVIDED WITH SLATS FASTENED AT THE TOP OR BOTTOM WHICH REDUCE THE OPENINGS TO NO MORE THAN 1-3/4 INCHES (44 MM).
R4501.17.1.7
WHERE THE BARRIER IS COMPOSED OF DIAGONAL MEMBERS, THE MAXIMUM OPENING FORMED BY THE DIAGONAL MEMBERS SHALL BE NO MORE THAN 1-3/4 INCHES (44 MM).
R4501.17.1.8
ACCESS GATES, WHEN PROVIDED, SHALL BE SELF-CLOSING AND SHALL COMPLY WITH THE REQUIREMENTS OF SECTIONS R4501.17.1.1 THROUGH R4501.17.1.7 AND SHALL BE EQUIPPED WITH A SELF-LATCHING LOCKING DEVICE LOCATED ON THE POOL SIDE OF THE GATE. WHERE THE DEVICE RELEASE IS LOCATED NO LESS THAN 54 INCHES (1372 MM) FROM THE BOTTOM OF THE GATE, THE DEVICE RELEASE MECHANISM MAY BE LOCATED ON EITHER SIDE OF THE GATE AND SO PLACED THAT IT CANNOT BE REACHED BY A YOUNG CHILD OVER THE TOP OR THROUGH ANY OPENING OR GAP FROM THE OUTSIDE. GATES THAT PROVIDE ACCESS TO THE SWIMMING POOL MUST OPEN OUTWARD AWAY FROM THE POOL. THE GATES AND BARRIER SHALL HAVE NO OPENING GREATER THAN 1/2 INCH (12.7 MM) WITHIN 18 INCHES (457 MM) OF THE RELEASE MECHANISM.
R4501.17.1.9
WHERE A WALL OF A DWELLING SERVES AS PART OF THE BARRIER, ONE OF THE FOLLOWING SHALL APPLY:
1.ALL DOORS AND WINDOWS PROVIDING DIRECT ACCESS FROM THE HOME TO THE POOL SHALL BE EQUIPPED WITH AN EXIT ALARM COMPLYING WITH UL 2017 THAT HAS A MINIMUM SOUND PRESSURE RATING OF 85 DBA AT 10 FEET (3048 MM). ANY DEACTIVATION SWITCH SHALL BE LOCATED AT LEAST 54 INCHES (1372 MM) ABOVE THE THRESHOLD OF THE ACCESS. SEPARATE ALARMS ARE NOT REQUIRED FOR EACH DOOR OR WINDOW IF SENSORS WIRED TO A CENTRAL ALARM SOUND WHEN CONTACT IS BROKEN AT ANY OPENING. EXCEPTIONS:

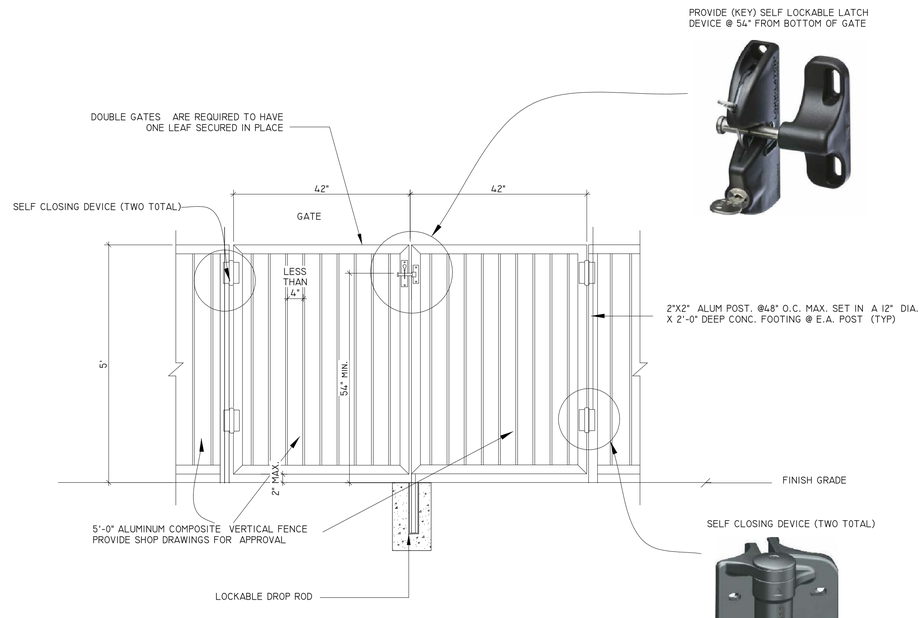
A.SCREENED OR PROTECTED WINDOWS HAVING A BOTTOM SILL HEIGHT OF 48 INCHES (1219 MM) OR MORE MEASURED FROM THE INTERIOR FINISHED FLOOR AT THE POOL ACCESS LEVEL.

B.WINDOWS FACING THE POOL ON FLOOR ABOVE THE FIRST STORY.

C.SCREENED OR PROTECTED PASS-THROUGH KITCHEN WINDOWS 42 INCHES (1067 MM) OR HIGHER WITH A COUNTER BENEATH.

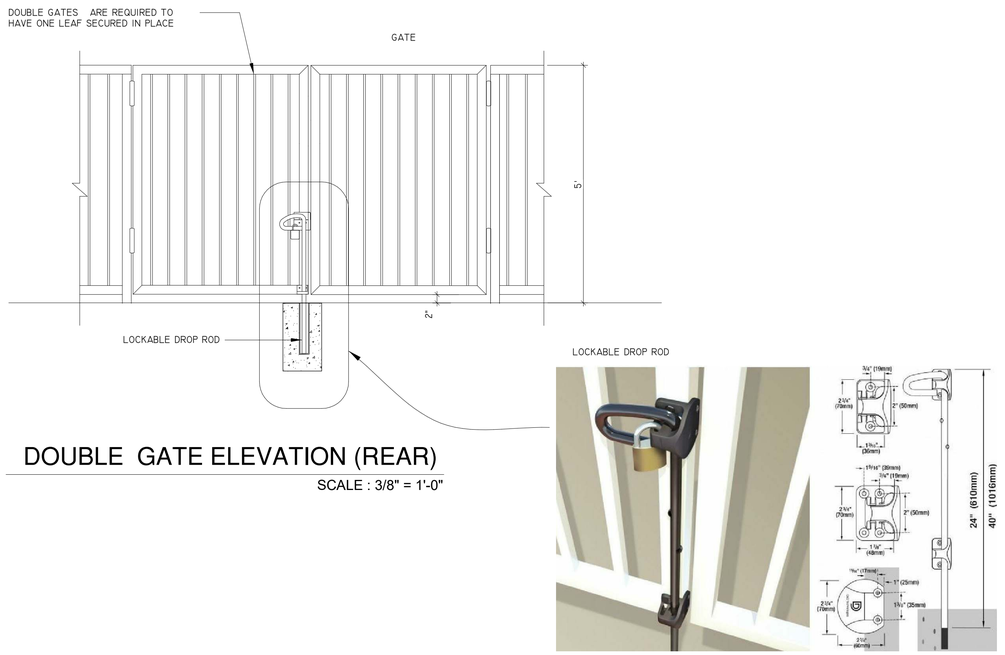
2.ALL DOORS PROVIDING DIRECT ACCESS FROM THE HOME TO THE POOL MUST BE EQUIPPED WITH A SELF-CLOSING, SELF-LATCHING DEVICE WITH POSITIVE MECHANICAL LATCHING/LOCKING INSTALLED A MINIMUM OF 54 INCHES (1372 MM) ABOVE THE THRESHOLD, WHICH IS APPROVED BY THE AUTHORITY HAVING JURISDICTION.

3.A SWIMMING POOL ALARM THAT, WHEN PLACED IN A POOL, SOUNDS AN ALARM UPON DETECTION OF AN ACCIDENTAL OR UNAUTHORIZED ENTRANCE INTO THE WATER. SUCH POOL ALARM MUST MEET AND BE INDEPENDENTLY CERTIFIED TO ASTM STANDARD F2208, TITLED STANDARD SAFETY SPECIFICATION FOR RESIDENTIAL POOL ALARMS, WHICH INCLUDES SURFACE MOTION, PRESSURE, SONAR, LASER, AND INFRARED ALARMS. FOR PURPOSES OF THIS PARAGRAPH, THE TERM SWIMMING POOL ALARM DOES NOT INCLUDE ANY SWIMMING PROTECTION ALARM DEVICE DESIGNED FOR INDIVIDUAL USE, SUCH AS AN ALARM ATTACHED TO A CHILD THAT SOUNDS WHEN THE CHILD EXCEEDS A CERTAIN DISTANCE OR BECOMES SUBMERGED IN WATER.
R4501.17.1.10
WHERE AN ABOVEGROUND POOL STRUCTURE IS USED AS A BARRIER OR WHERE THE BARRIER IS MOUNTED ON TOP OF THE POOL STRUCTURE, AND THE MEANS OF ACCESS IS A LADDER OR STEPS, THE LADDER OR STEPS EITHER SHALL BE CAPABLE OF BEING SECURED, LOCKED OR REMOVED TO PREVENT ACCESS, OR THE LADDER OR STEPS SHALL BE SURROUNDED BY A BARRIER WHICH MEETS THE REQUIREMENTS OF SECTIONS R4501.17.1.1 THROUGH R4501.17.1.9 AND SECTIONS R4501.17.1.12 THROUGH R4501.17.1.14. WHEN THE LADDER OR STEPS ARE SECURED, LOCKED OR REMOVED, ANY OPENING CREATED SHALL NOT ALLOW THE PASSAGE OF A 4-INCH-DIAMETER (102 MM) SPHERE.



DOUBLE GATE ELEVATION (FRONT)

SCALE : 3/8" = 1'-0"



DOUBLE GATE ELEVATION (REAR)

SCALE : 3/8" = 1'-0"

REVISIONS

Rev.	Date	Description

FIDANZA'S FAMILY HOUSE
NEW CONSTRUCTION
11041 SW 77TH AVE, PINECREST, FL 33156

JORGE L VILLAVICENCIO
Digitally signed by JORGE L VILLAVICENCIO
Date: 2023.08.28 11:40:23 -04'00'

STATE OF FLORIDA — JORGE L. VILLAVICENCIO — REGISTERED ARCHITECT — LICENSE NO. AR0012110
Certificate of Authorization No. AA0003589

VILLA & ASSOCIATES INC.
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DATE: 10-20-2022
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DRAWING NO : A-0.4

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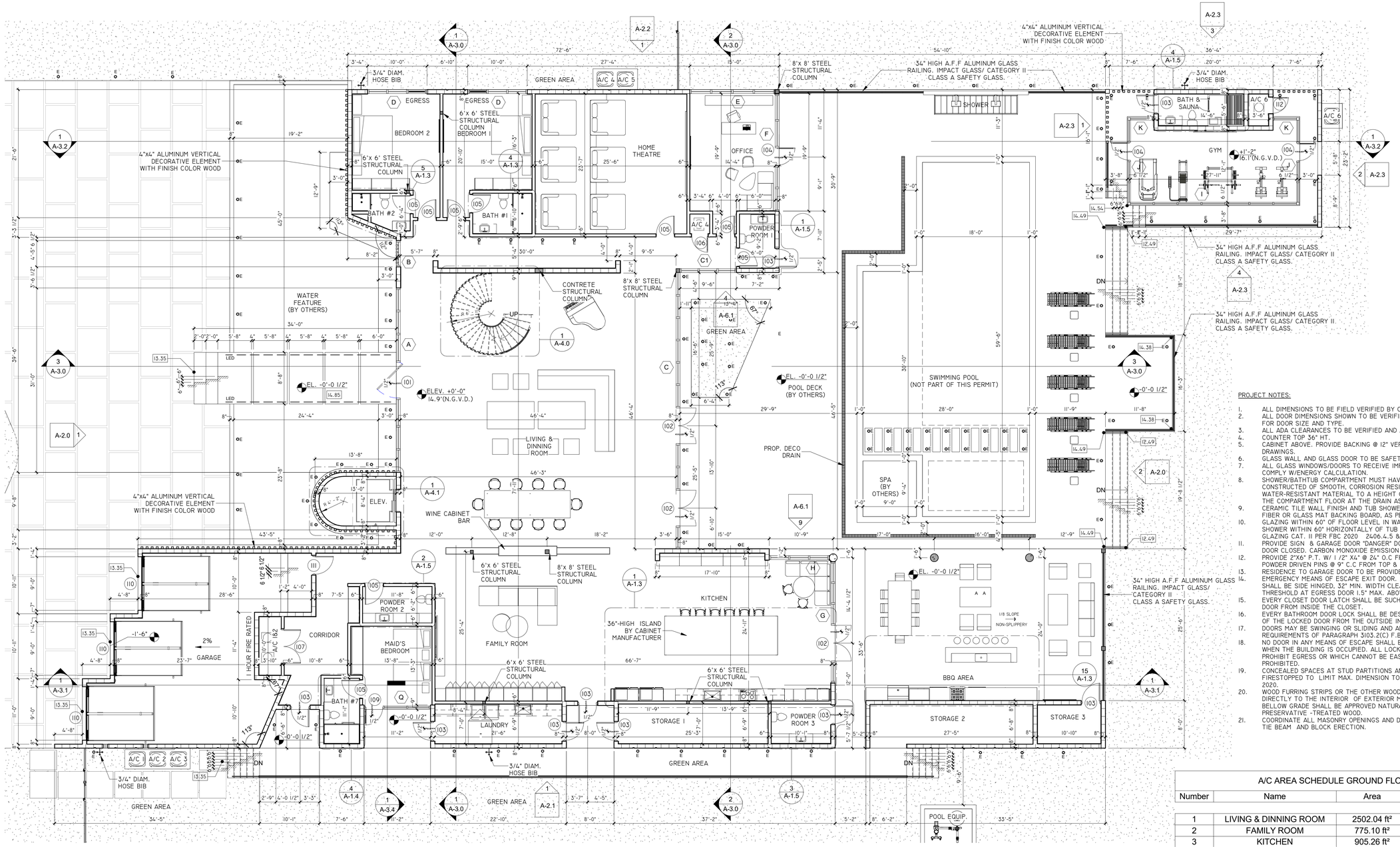


1 GROUND FLOOR
A-1.0 1/8" = 1'-0"

ELEVATOR NOTES:

1. ELEVATOR MANUFACTURER SHALL PROVIDE SHOP DRAWINGS FOR ARCHITECT'S/ ENGINEER'S REVIEW & APPROVAL.
2. SIGN TO BE INSTALLED SHALL READ: "IN CASE OF FIRE DO NOT USE ELEVATOR".
3. FACE OF THE INTERIOR DOOR SHALL BE .3"-0"FROM ELEVATOR COMPARTMENT DOOR.

WALL LEGEND

- CMU 8"
- PARTITION 6" NON RATED PARTITION
- PARTITION 4" NON RATED PARTITION
- X — WALL TYPE (SEE DETAILS)

NOTE :
ALL EGRESS WINDOWS TO COMPLY W/ FBC 7TH EDITION 2020: AN OUTSIDE WINDOW OR DOOR OPERABLE FROM THE INSIDE WITHOUT THE USE OF TOOLS AND PROVIDING A CLEAR OPENING OF NOT LESS THAN 20" WIDE X 24" HIGH AND 5.7 SQ. FT. IN AREA. THE BOTTOM OF THE OPENING SHALL NOT BE MORE THAN 44" OFF THE FLOOR. THE MODE OF OPERATION MUST NOT REQUIRE THE USE OF A KEY, TOOL, SPECIAL KNOWLEDGE OR EFFORT TO MAKE AVAILABLE THE REQUIRED CLEAR OPENING, AND NO PART OF THE OPERATION MECHANISM SHALL BE PLACED HIGHER THAN 54" ABOVE THE FINISHED FLOOR.

WALL AND CEILING FINISHES NOTE:

1. WALL AND CEILING FINISHES SHALL HAVE A FLAME SPREAD INDEX NOT GREATER THAN 200 PER F.B.C. R302.9.1

2. WALL AND CEILING FINISHES SHALL HAVE A SMOKE DEVELOPED INDEX NOT GREATER THAN 450 AS PER F.B.C. R302.9.2

3. INSULATION MATERIALS SHALL HAVE A FLAME SPEAD INDEX OF NOT MORE THAN 25 & A SMOKE DEVELOPED INDEX OF NOT MORE THAN 450 PER R302.10.1 F.B.C.

PROJECT NOTES:

1. ALL DIMENSIONS TO BE FIELD VERIFIED BY CONTRACTOR.
2. ALL DOOR DIMENSIONS SHOWN TO BE VERIFIED BY GC. REFER TO SCHEDULE FOR DOOR SIZE AND TYPE.
3. ALL ADA CLEARANCES TO BE VERIFIED AND ADHERED TO BY G.C.
4. COUNTER TOP 36" HT.
5. CABINET ABOVE. PROVIDE BACKING @ 12" VERTICAL. GC TO SUBMIT SHOP DRAWINGS.
6. GLASS WALL AND GLASS DOOR TO BE SAFETY CATEGORY II.
7. ALL GLASS WINDOWS/DOORS TO RECEIVE IMPACT RESISTANT GLASS AND TO COMPLY W/ENERGY CALCULATION.
8. SHOWER/BATHTUB COMPARTMENT MUST HAVE FLOOR AND WALLS CONSTRUCTED OF SMOOTH, CORROSION RESISTANT AND NON ABSORBENT WATER-RESISTANT MATERIAL TO A HEIGHT OF NOT LESS THAN 72" ABOVE THE COMPARTMENT FLOOR AT THE DRAIN AS PER FBC 2020.
9. CERAMIC TILE WALL FINISH AND TUB SHOWER AREAS SHALL HAVE CEMENT FIBER OR GLASS MAT BACKING BOARD, AS PER F.B.C. R702.4.2.
10. GLAZING WITHIN 60" OF FLOOR LEVEL IN WALLS SURROUNDING TUB OR SHOWER WITHIN 60" HORIZONTALLY OF TUB OR SHOWER SHALL BE SAFETY GLAZING CAT. II PER FBC 2020 2406.4.5 & R 308.4. 5 F.B.C. 2020.
11. PROVIDE SIGN & GARAGE DOOR "DANGER" DO NOT OPERATE ENGINES WITH DOOR CLOSED. CARBON MONOXIDE EMISSION IS LETHAL, 1/2" MIN. LETTER.
12. PROVIDE 2"X6" P.T. W/ 1 /2" X4" @ 24" O.C FROM TOP & BOT. OR 3 /16" X3" POWDER DRIVEN PINS @ 9" C.C FROM TOP & BOT. (SEE DOOR MFR SPEC'S)
13. RESIDENCE TO GARAGE DOOR TO BE PROVIDED WITH AUTO CLOSURE.
14. EMERGENCY MEANS OF ESCAPE EXIT DOOR. ACCORDING FBC'17 R310.4. DOOR SHALL BE SIDE HINGED, 32" MIN. WIDTH CLEARANCE & 78" MIN. CLEAR HT. THRESHOLD AT EGRESS DOOR 1.5" MAX. ABOVE INTERIOR FINISH FL. R311.3.1.
15. EVERY CLOSET DOOR LATCH SHALL BE SUCH THAT CHILDREN CAN OPEN THE DOOR FROM INSIDE THE CLOSET.
16. EVERY BATHROOM DOOR LOCK SHALL BE DESIGNED TO PERMIT THE OPENING OF THE LOCKED DOOR FROM THE OUTSIDE IN AN EMERGENCY.
17. DOORS MAY BE SWINGING OR SLIDING AND ARE EXEMPT FROM THE REQUIREMENTS OF PARAGRAPH 3103.2(C) F.B.C. 2020
18. NO DOOR IN ANY MEANS OF ESCAPE SHALL BE LOCKED AGAINST EGRESS WHEN THE BUILDING IS OCCUPIED. ALL LOCKING DEVICES WHICH IMPEDE OR PROHIBIT EGRESS OR WHICH CANNOT BE EASILY DISENGAGED SHALL BE PROHIBITED.
19. CONCEALED SPACES AT STUD PARTITIONS AND FURRED SPACES SHALL BE FIRESTOPPED TO LIMIT MAX. DIMENSION TO 8' AS PER R4409.7.2.I F.B.C.- 2020.
20. WOOD FURRING STRIPS OR THE OTHER WOOD FRAMING MEMBERS ATTACHED DIRECTLY TO THE INTERIOR OF EXTERIOR MASONRY OR CONCRETE WALLS BELLOW GRADE SHALL BE APPROVED NATURALLY DURABLE OR PRESERVATIVE -TREATED WOOD.
21. COORDINATE ALL MASONRY OPENINGS AND DOORS MANUFACTURER PRIOR TO TIE BEAM AND BLOCK ERECTION.

A/C AREA SCHEDULE GROUND FLOOR

Number	Name	Area	Level
1	LIVING & DINNING ROOM	2502.04 ft²	GROUND FLOOR
2	FAMILY ROOM	775.10 ft²	GROUND FLOOR
3	KITCHEN	905.26 ft²	GROUND FLOOR
4	BEDROOM 1	263.13 ft²	GROUND FLOOR
5	BEDROOM 2	259.15 ft²	GROUND FLOOR
6	HOME THEATRE	599.25 ft²	GROUND FLOOR
7	OFFICE	295.58 ft²	GROUND FLOOR
8	BATH #1	68.33 ft²	GROUND FLOOR
9	BATH #2	48.53 ft²	GROUND FLOOR
10	POWDER ROOM 1	53.74 ft²	GROUND FLOOR
11	POWDER ROOM 2	71.94 ft²	GROUND FLOOR
12	MAID'S BEDROOM	171.08 ft²	GROUND FLOOR
13	BATH #7	66.00 ft²	GROUND FLOOR
14	STORAGE 1	167.78 ft²	GROUND FLOOR
15	POWDER ROOM 3	66.67 ft²	GROUND FLOOR
16	STORAGE 2	186.89 ft²	GROUND FLOOR
17	A/C 1&2	36.88 ft²	GROUND FLOOR
18	A/C 4	11.11 ft²	GROUND FLOOR
19	LAUNDRY	142.22 ft²	GROUND FLOOR
20	GYM	353.48 ft²	GROUND FLOOR
22	A/C 6	Not Enclosed	GROUND FLOOR
23	ELEV.	100.87 ft²	GROUND FLOOR
24	CORRIDOR	249.80 ft²	GROUND FLOOR
50	BATH & SAUNA	Not Enclosed	GROUND FLOOR
52	STORAGE 3	69.33 ft²	GROUND FLOOR
Total: 25		7464.16 ft²	

REVISIONS

Rev.	Date	Description

JORGE L VILLAVI CENCIO
Digitally signed by JORGE L VILLAVICENCIO
Date: 2023.08.28 11:36:53 -04'00'

FIDANZA'S FAMILY HOUSE
NEW CONSTRUCTION
11041 SW 77TH AVE, PINECREST, FL 33156

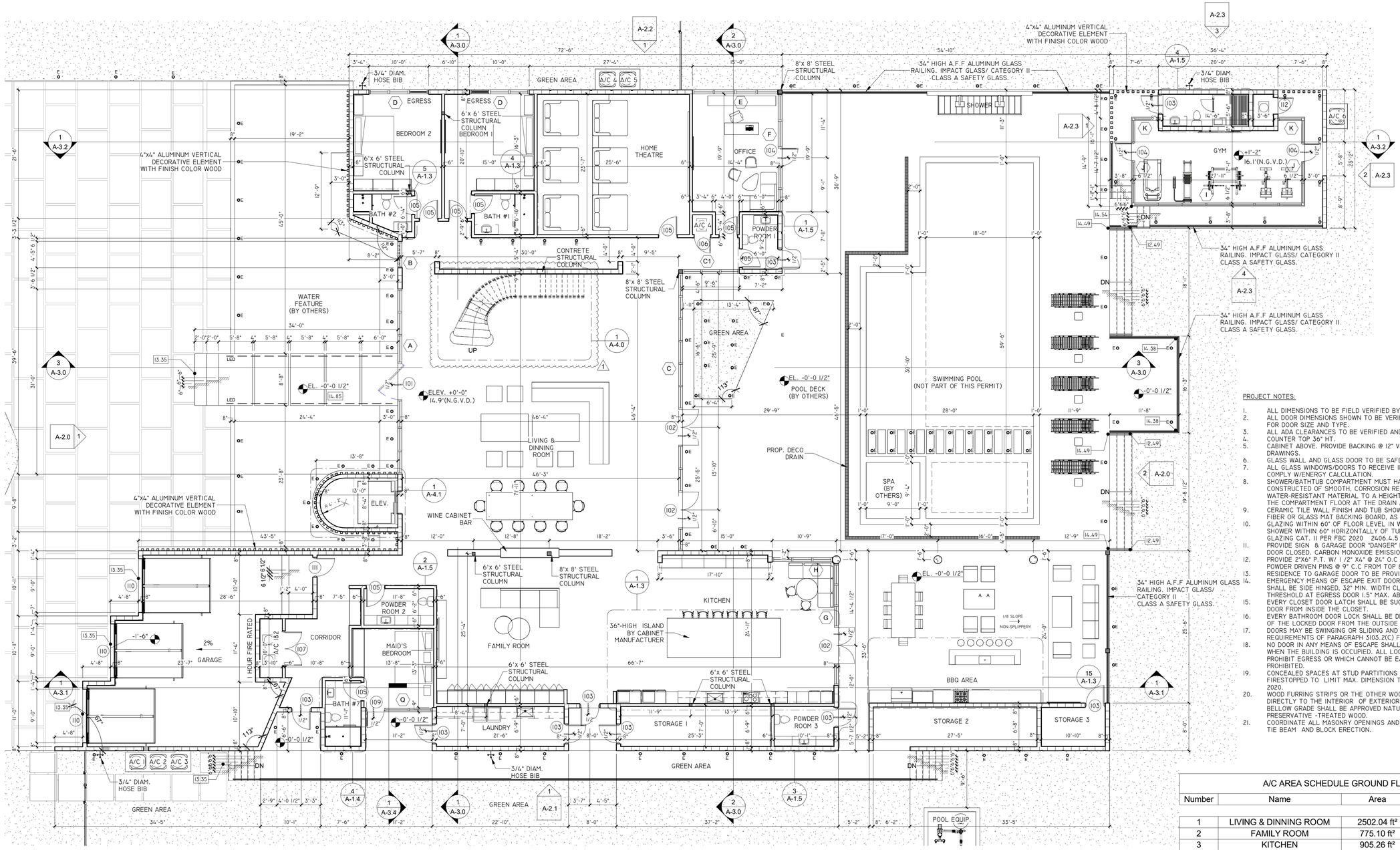
STATE OF FLORIDA — JORGE L. VILLAVICENCIO — Architectural Seal — 00012110 — REGISTERED ARCHITECT
Certificate of Authorization No. AA0003589

VILLA & ASSOCIATES INC.
ARCHITECTURE - PLANNING - INTERIOR DESIGN
5801 SW 69 AVENUE - MIAMI, FLORIDA 33155
TEL. 305-613-0865 - E-Mail Jvillarchitect@gmail.com

CONSULTANT : ARCHI-TEK STUDIO CORP.
TEL: 305-799-8016 - E-Mail magullar@architekstudio.com

DATE: 10-20-2022
SCALE: AS SHOWN
PROJECT NO: GROUND FLOOR PLAN
DRAWING NO : A-1.0

Miami Dade County Department of Regulatory and Economic Resources - Job Copy
2023021890 - 7/9/2024 11:49:47 AM
A-1.0 - GROUND FLOOR PLAN.pdf



JORGE L VILLAVICENCIO

Digitally signed by JORGE L VILLAVICENCIO
Date: 2023.11.06 09:52:05 -05'00'

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REVISIONS

Rev.	Date	Description
1	10-9-2023	Building comment

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2. ALL DOOR DIMENSIONS SHOWN TO BE VERIFIED BY GC. REFER TO SCHEDULE FOR DOOR SIZE AND TYPE.
3. ALL ADA CLEARANCES TO BE VERIFIED AND ADHERED TO BY G.C.
4. COUNTER TOP 36" HT.
5. CABINET ABOVE. PROVIDE BACKING @ 12" VERTICAL. GC TO SUBMIT SHOP DRAWINGS.
6. GLASS WALL AND GLASS DOOR TO BE SAFETY CATEGORY II.
7. ALL GLASS WINDOWS/DOORS TO RECEIVE IMPACT RESISTANT GLASS AND TO COMPLY W/ENERGY CALCULATION.
8. SHOWER/BATHTUB COMPARTMENT MUST HAVE FLOOR AND WALLS CONSTRUCTED OF SMOOTH, CORROSION RESISTANT AND NON ABSORBENT WATER-RESISTANT MATERIAL TO A HEIGHT OF NOT LESS THAN 72" ABOVE THE COMPARTMENT FLOOR AT THE DRAIN AS PER FBC 2020.
9. CERAMIC TILE WALL FINISH AND TUB SHOWER AREAS SHALL HAVE CEMENT FIBER OR GLASS MAT BACKING BOARD, AS PER F.B.C. R702.4.2.
10. GLAZING WITHIN 60" OF FLOOR LEVEL IN WALLS SURROUNDING TUB OR SHOWER WITHIN 60" HORIZONTALLY OF TUB OR SHOWER SHALL BE SAFETY GLAZING CAT. II PER FBC 2020 2406.4.5 & R 308.4. 5 F.B.C. 2020.
11. PROVIDE SIGN & GARAGE DOOR "DANGER" DO NOT OPERATE ENGINES WITH DOOR CLOSED. CARBON MONOXIDE EMISSION IS LETHAL, 1/2" MIN. LETTER.
12. PROVIDE 2'X6" P.T. W/ 1 /2" X4" @ 24" O.C FROM TOP & BOT. OR 3 /16" X3" POWDER DRIVEN PINS @ 9" C.C FROM TOP & BOT. (SEE DOOR MFR SPEC'S)
13. RESIDENCE TO GARAGE DOOR TO BE PROVIDED WITH AUTO CLOSURE.
14. EMERGENCY MEANS OF ESCAPE EXIT DOOR. ACCORDING FBC'17 R310.4. DOOR SHALL BE SIDE HINGED, 32" MIN. WIDTH CLEARANCE & 78" MIN. CLEAR HT. THRESHOLD AT EGRESS DOOR 1.5" MAX. ABOVE INTERIOR FINISH FL. R311.3.1.
15. EVERY CLOSET DOOR LATCH SHALL BE SUCH THAT CHILDREN CAN OPEN THE DOOR FROM INSIDE THE CLOSET.
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19. CONCEALED SPACES AT STUD PARTITIONS AND FURRED SPACES SHALL BE FIRESTOPPED TO LIMIT MAX. DIMENSION TO 8' AS PER R4409.7.2.I F.B.C.- 2020.
20. WOOD FURRING STRIPS OR THE OTHER WOOD FRAMING MEMBERS ATTACHED DIRECTLY TO THE INTERIOR OF EXTERIOR MASONRY OR CONCRETE WALLS BELLOW GRADE SHALL BE APPROVED NATURALLY DURABLE OR PRESERVATIVE -TREATED WOOD.
21. COORDINATE ALL MASONRY OPENINGS AND DOORS MANUFACTURER PRIOR TO TIE BEAM AND BLOCK ERECTION.

I GROUND FLOOR
A-1.0 1/8" = 1'-0"

ELEVATOR NOTES:

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2. SIGN TO BE INSTALLED SHALL READ: "IN CASE OF FIRE DO NOT USE ELEVATOR".
3. FACE OF THE INTERIOR DOOR SHALL BE .3"-0"FROM ELEVATOR COMPARTMENT DOOR.

WALL LEGEND

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- X — WALL TYPE (SEE DETAILS)

NOTE :
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WALL AND CEILING FINISHES NOTE:

1. WALL AND CEILING FINISHES SHALL HAVE A FLAME SPREAD INDEX NOT GREATER THAN 200 PER F.B.C. R302.9.I

2. WALL AND CEILING FINISHES SHALL HAVE A SMOKE DEVELOPED INDEX NOT GREATER THAN 450 AS PER F.B.C. R302.9.2

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A/C AREA SCHEDULE GROUND FLOOR

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CONSULTANT : ARCHI-TEK STUDIO CORP.
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DATE: 10-20-2022
SCALE: AS SHOWN
PROJECT NO: GROUND FLOOR PLAN
DRAWING NO : A-1.0

Miami Dade County Department of Regulatory and Economic Resources - Job Copy
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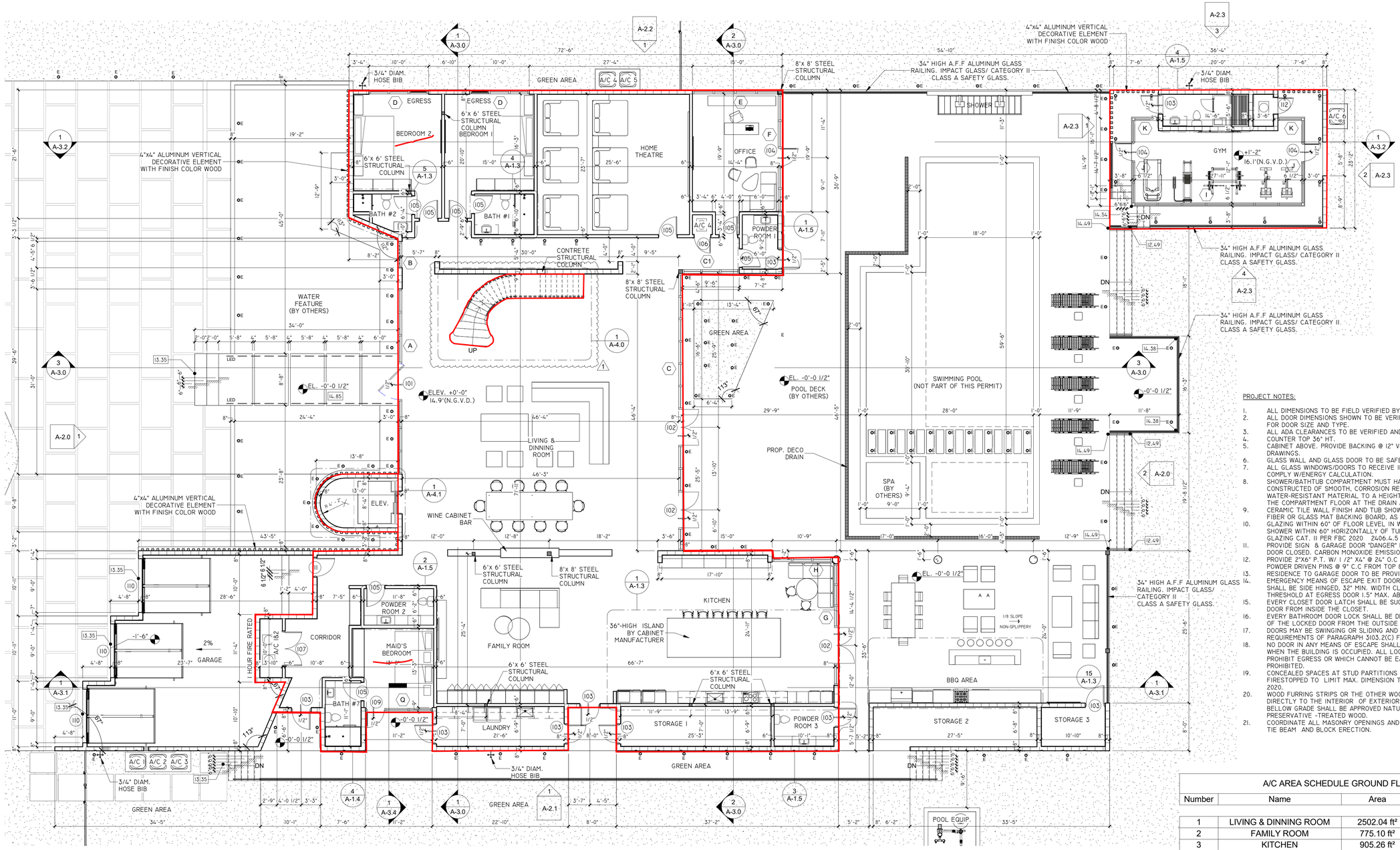
A-1.0 - GROUND FLOOR PLAN_V2.pdf



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REVISIONS

Rev.	Date	Description
1	10-9-2023	Building comment

JORGE L VILLAVICENCIO
Digitally signed by JORGE L VILLAVICENCIO
Date: 2023.11.06 09:52:05 -05'00'

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Registration Number AR0003587 STATE OF FLORIDA JORGE L VILLAVICENCIO REGISTERED ARCHITECT
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DATE: 10-20-2022
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Miami Dade County Department of Regulatory and Economic Resources - Job Copy
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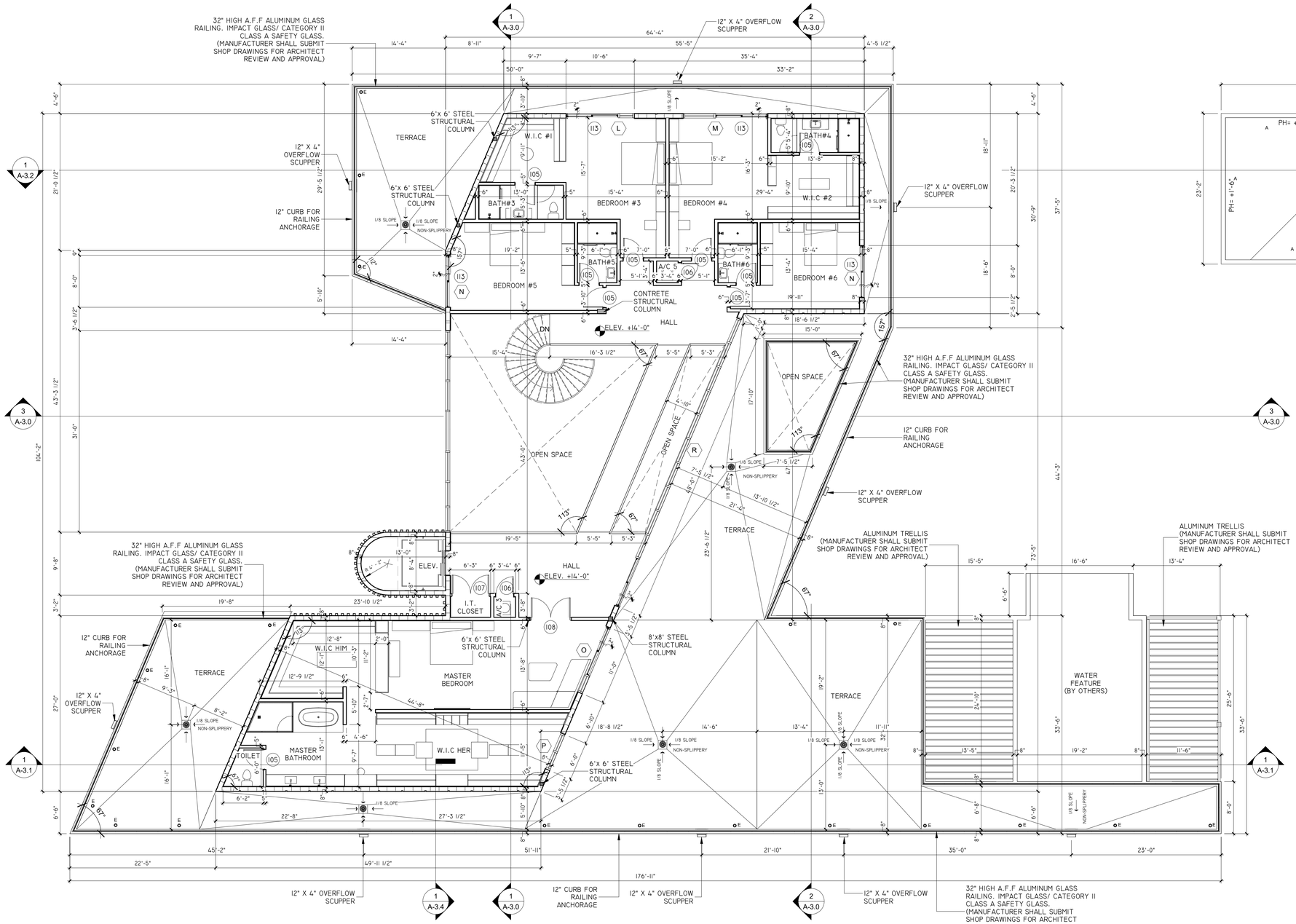
A-1.0 - GROUND FLOOR PLAN_V3.pdf
Examiner Date Time Stamp Trade Stamp Name
FLORES, ANA 3/1/2024 9:50:55 AM HRS Approved



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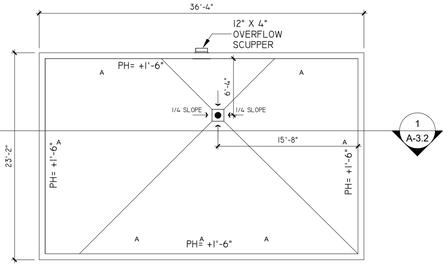

JORGE L VILLAVICENCIO

Digitally signed by JORGE L VILLAVICENCIO
Date: 2023.09.07 09:46:40 -04'00'

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Number	Name	Area	Level
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25	W.I.C #1	109.75 ft²	SECOND FLOOR
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27	BATH#4	50.53 ft²	SECOND FLOOR
28	BATH#3	47.47 ft²	SECOND FLOOR
29	BEDROOM #5	270.05 ft²	SECOND FLOOR
30	BATH#5	56.27 ft²	SECOND FLOOR
31	BEDROOM #6	218.46 ft²	SECOND FLOOR
32	BATH#6	56.27 ft²	SECOND FLOOR
33	MASTER BEDROOM	448.81 ft²	SECOND FLOOR
34	W.I.C #2	136.03 ft²	SECOND FLOOR
35	W.I.C HER	307.96 ft²	SECOND FLOOR
36	W.I.C HIM	183.14 ft²	SECOND FLOOR
37	ELEV.	100.87 ft²	SECOND FLOOR
38	HALL	686.46 ft²	SECOND FLOOR
39	MASTER BATHROOM	235.50 ft²	SECOND FLOOR
40	A/C 5	11.11 ft²	SECOND FLOOR
41	A/C 3	10.56 ft²	SECOND FLOOR
42	TOILET	20.78 ft²	SECOND FLOOR
43	I.T. CLOSET	19.53 ft²	SECOND FLOOR
44	TOILET	20.78 ft²	SECOND FLOOR
45	TOILET	29.05 ft²	SECOND FLOOR
Total: 22		3577.49 ft²	

REVISIONS

Rev.	Date	Description

FIDANZA'S FAMILY HOUSE
NEW CONSTRUCTION
11041 SW 77TH AVE, PINECREST, FL 33156

Certificate of Authorization STATE OF FLORIDA JORGE L VILLAVICENCIO REGISTERED ARCHITECT AR0012110
Architectural Service LC26000358

VILLA & ASSOCIATES INC.
ARCHITECTURE - PLANNING - INTERIOR DESIGN
5801 SW 69 AVENUE - MIAMI, FLORIDA 33155
TEL. 305-613-0865 - E-Mail Jvillarchitect@gmail.com
CONSULTANT : ARCHI-TEK STUDIO CORP.
TEL: 305-799-8016 - E-Mail magullar@architekstudio.com

DATE: 10-20-2022
SCALE: AS SHOWN
PROJECT NO: SECOND FLOOR PLAN
DRAWING NO : A-1.1

Miami Dade County Department of Regulatory and Economic Resources - Job Copy
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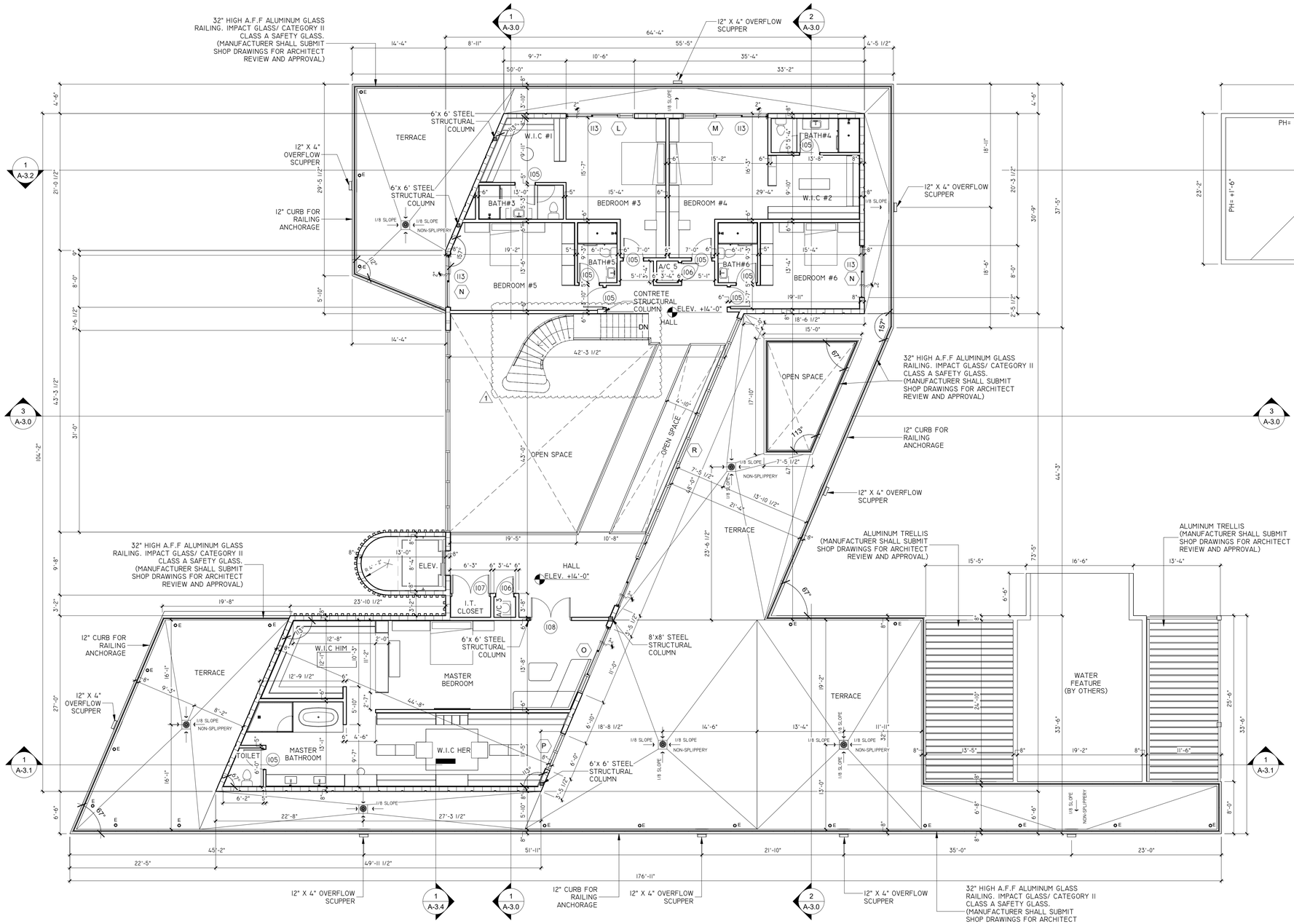
A-1.1 - SECOND FLOOR PLAN 09072023.pdf



1 SECOND FLOOR
A-1.1 1/8" = 1'-0"

ELEVATOR NOTES:

1. ELEVATOR MANUFACTURER SHALL PROVIDE SHOP DRAWINGS FOR ARCHITECT'S/ ENGINEER'S REVIEW & APPROVAL.
2. SIGN TO BE INSTALLED SHALL READ: "IN CASE OF FIRE DO NOT USE ELEVATOR".
3. FACE OF THE INTERIOR DOOR SHALL BE .3"-0"FROM ELEVATOR COMPARTMENT DOOR.

WALL LEGEND

- CMU 8"
- PARTITION 6" NON RATED PARTITION
- PARTITION 4" NON RATED PARTITION
- X — WALL TYPE (SEE DETAILS)

NOTE :
ALL EGRESS WINDOWS TO COMPLY W/ FBC 7TH EDITION 2020: AN OUTSIDE WINDOW OR DOOR OPERABLE FROM THE INSIDE WITHOUT THE USE OF TOOLS AND PROVIDING A CLEAR OPENING OF NOT LESS THAN 20" WIDE X 24" HIGH AND 5.7 SQ. FT. IN AREA. THE BOTTOM OF THE OPENING SHALL NOT BE MORE THAN 44" OFF THE FLOOR. THE MODE OF OPERATION MUST NOT REQUIRE THE USE OF A KEY, TOOL, SPECIAL KNOWLEDGE OR EFFORT TO MAKE AVAILABLE THE REQUIRED CLEAR OPENING, AND NO PART OF THE OPERATION MECHANISM SHALL BE PLACED HIGHER THAN 54" ABOVE THE FINISHED FLOOR.

WALL AND CEILING FINISHES NOTE:

1. WALL AND CEILING FINISHES SHALL HAVE A FLAME SPREAD INDEX NOT GREATER THAN 200 PER F.B.C. R302.9.1

2. WALL AND CEILING FINISHES SHALL HAVE A SMOKE DEVELOPED INDEX NOT GREATER THAN 450 AS PER F.B.C. R302.9.2

3. INSULATION MATERIALS SHALL HAVE A FLAME SPEAD INDEX OF NOT MORE THAN 25 & A SMOKE DEVELOPED INDEX OF NOT MORE THAN 450 PER R302.10.1 F.B.C.

JORGE L VILLAVICENCIO

Digitally signed by JORGE L VILLAVICENCIO
Date: 2023.11.06 09:54:19 -05'00'

PROJECT NOTES:

1. ALL DIMENSIONS TO BE FIELD VERIFIED BY CONTRACTOR.
2. ALL DOOR DIMENSIONS SHOWN TO BE VERIFIED BY GC. REFER TO SCHEDULE FOR DOOR SIZE AND TYPE.
3. ALL ADA CLEARANCES TO BE VERIFIED AND ADHERED TO BY G.C.
4. COUNTER TOP 36" HT.
5. CABINET ABOVE. PROVIDE BACKING @ 12" VERTICAL. GC TO SUBMIT SHOP DRAWINGS.
6. GLASS WALL AND GLASS DOOR TO BE SAFETY CATEGORY II.
7. ALL GLASS WINDOWS/DOORS TO RECEIVE IMPACT RESISTANT GLASS AND TO COMPLY W/ENERGY CALCULATION.
8. SHOWER/BATHTUB COMPARTMENT MUST HAVE FLOOR AND WALLS CONSTRUCTED OF SMOOTH, CORROSION RESISTANT AND NON ABSORBENT WATER-RESISTANT MATERIAL TO A HEIGHT OF NOT LESS THAN 72" ABOVE THE COMPARTMENT FLOOR AT THE DRAIN AS PER FBC 2020.
9. CERAMIC TILE WALL FINISH AND TUB SHOWER AREAS SHALL HAVE CEMENT FIBER OR GLASS MAT BACKING BOARD, AS PER F.B.C. R702.4.2.
10. GLAZING WITHIN 60" OF FLOOR LEVEL IN WALLS SURROUNDING TUB OR SHOWER WITHIN 60" HORIZONTALLY OF TUB OR SHOWER SHALL BE SAFETY GLAZING CAT. II PER FBC 2020 2406.4.5 & R 308.4.5 F.B.C. 2020.
11. PROVIDE SIGN & GARAGE DOOR "DANGER" DO NOT OPERATE ENGINES WITH DOOR CLOSED. CARBON MONOXIDE EMISSION IS LETHAL. 1/2" MIN. LETTER.
12. PROVIDE 2"X6" P.T. W/ 1 /2" X4" @ 24" O.C FROM TOP & BOT. OR 3 /16" X5" POWDER DRIVEN PINS @ 9" C.C FROM TOP & BOT. (SEE DOOR MFR SPEC'S)
13. RESIDENCE TO GARAGE DOOR TO BE PROVIDED WITH AUTO CLOSURE.
14. EMERGENCY MEANS OF ESCAPE EXIT DOOR. ACCORDING FBC'17 R310.4. DOOR SHALL BE SIDE HINGED, 32" MIN. WIDTH CLEARANCE & 78" MIN. CLEAR HT. THRESHOLD AT EGRESS DOOR 1.5" MAX. ABOVE INTERIOR FINISH FL. R311.3.1.
15. EVERY CLOSET DOOR LATCH SHALL BE SUCH THAT CHILDREN CAN OPEN THE DOOR FROM INSIDE THE CLOSET.
16. EVERY BATHROOM DOOR LOCK SHALL BE DESIGNED TO PERMIT THE OPENING OF THE LOCKED DOOR FROM THE OUTSIDE IN AN EMERGENCY.
17. DOORS MAY BE SWINGING OR SLIDING AND ARE EXEMPT FROM THE REQUIREMENTS OF PARAGRAPH 3103.2(C) F.B.C. 2020
18. NO DOOR IN ANY MEANS OF ESCAPE SHALL BE LOCKED AGAINST EGRESS WHEN THE BUILDING IS OCCUPIED. ALL LOCKING DEVICES WHICH IMPEDE OR PROHIBIT EGRESS OR WHICH CANNOT BE EASILY DISENGAGED SHALL BE PROHIBITED.
19. CONCEALED SPACES AT STUD PARTITIONS AND FURRED SPACES SHALL BE FIRESTOPPED TO LIMIT MAX. DIMENSION TO 8' AS PER R4409.7.2.1 F.B.C.- 2020.
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21. COORDINATE ALL MASONRY OPENINGS AND DOORS MANUFACTURER PRIOR TO TIE BEAM AND BLOCK ERECTION.

A/C AREA SCHEDULE SECOND FLOOR

Number	Name	Area	Level
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25	W.I.C #1	109.75 ft²	SECOND FLOOR
26	BEDROOM #4	279.01 ft²	SECOND FLOOR
27	BATH#4	50.53 ft²	SECOND FLOOR
28	BATH#3	47.47 ft²	SECOND FLOOR
29	BEDROOM #5	270.05 ft²	SECOND FLOOR
30	BATH#5	56.27 ft²	SECOND FLOOR
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Certificate of Authorization AA0003587 — STATE OF FLORIDA — JORGE L VILLAVICENCIO — REGISTERED ARCHITECT — AR0012110

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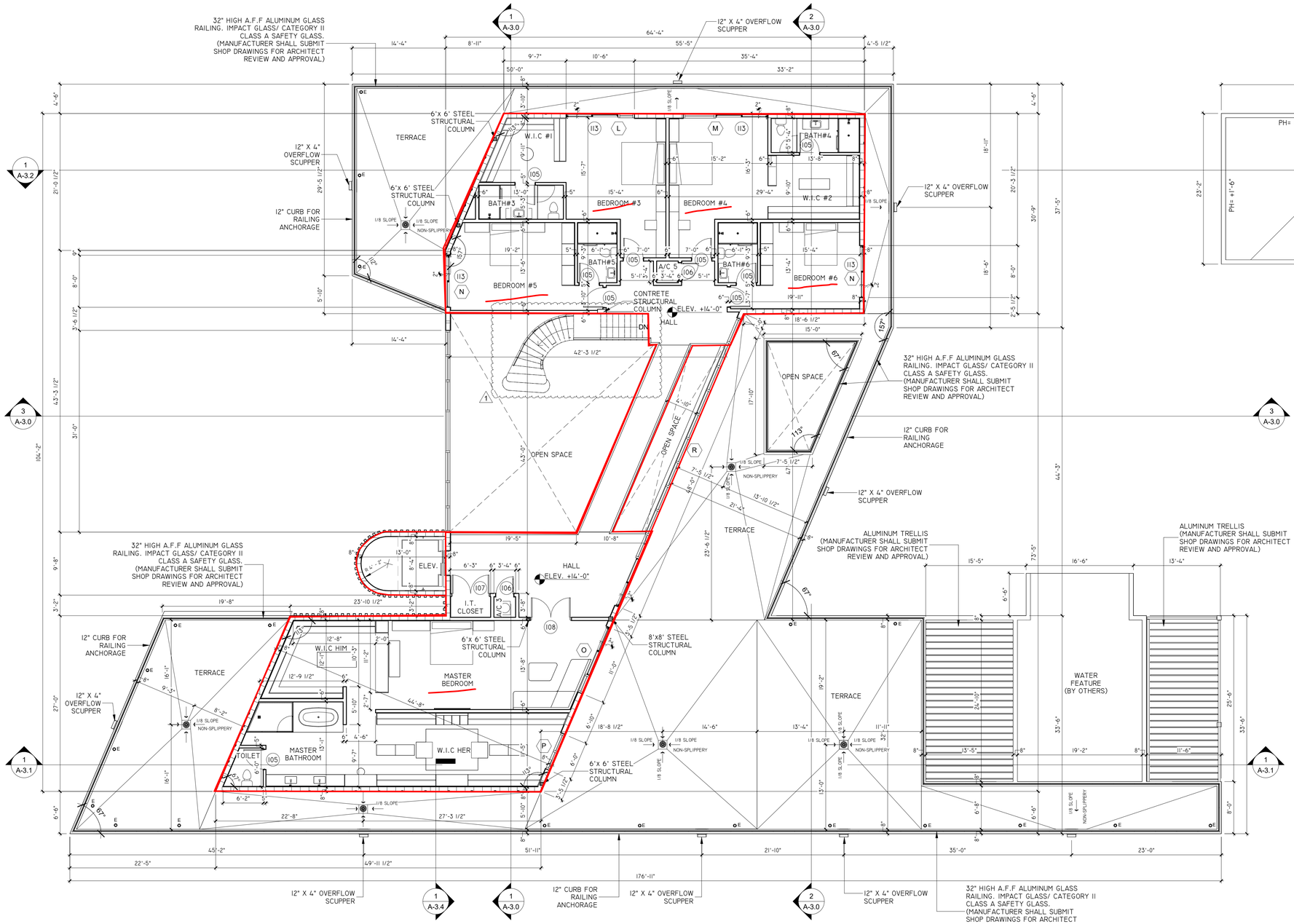

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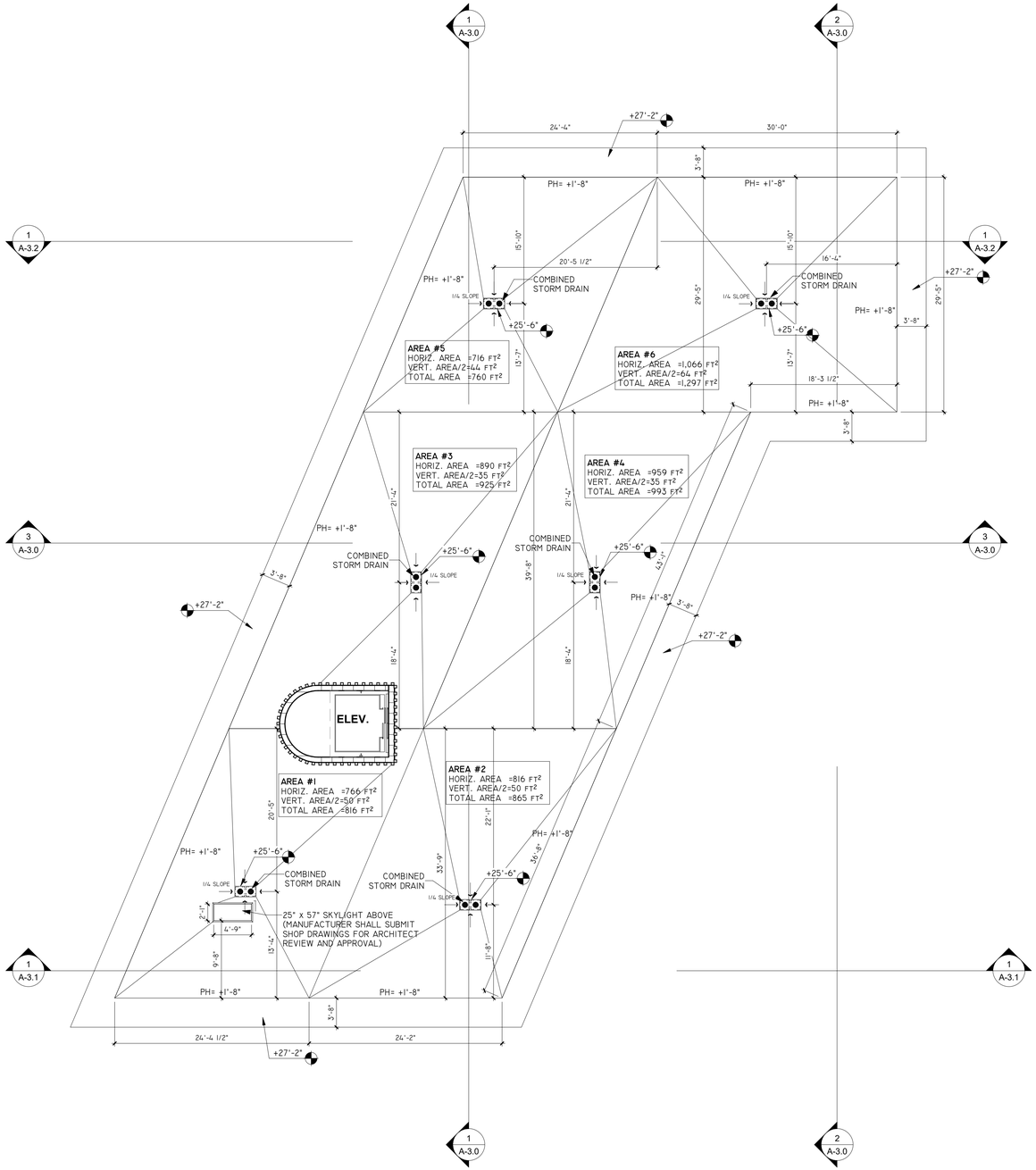
FLORES, ANA 3/1/2024 10:08:44 AM HRS Approved



I A-1.2 ROOF
1/8" = 1'-0"

NOTE:
FOR TYPICAL ARCHITECTURAL DETAILS REFER TO SHEET "A-6.2-DETAILS" (ROOFING, WATER-PROOFING, PARAPETS, ROOF DRAINS, SCUPPERS, ETC). REFER TO MECHANICAL, PLUMBING AND ELECTRICAL DRAWING FOR ROOF PENETRATIONS, ROOF DRAIN CALCULATIONS, AND OTHER DETAILS. REFER TO STRUCTURAL DRAWINGS FOR STRUCTURAL DETAILS.

ROOFING INSULATION MATERIAL:
ROOF FINISH SHALL BE GAF RUBEROID MODIFIED BITUMEN ROOF SYSTEM (NOA No. 18-0919.13) EXPIRES 11/06/2023 ON XCI FOIL, XCI CLASS A POYISO ROOF TAPERED INSULATION (NOA No. 18-1024.06) EXPIRES 01/02/2024 OR APPROVED EQUAL.

ROOF SKYLIGHT:
MODEL DCM MOUNT & DSF SELF-FLASHING ALUMINUM SKYLIGHTS BY MAXIUM INDUSTRIES, INC. MIAMI-DADE NOA NO. 18-1217.13 WITH EXPIRATION DATE, 02/20/2024.

SOLAR REFLECTIVE EXTERIOR AREAS

ALL MATERIALS TO COMPLY WITH ARTICLE 3 OF THE MIAMI 21 CODE
ALL EXTERIOR WALKWAYS, VEHICULAR ENTRANCES AND HARDSCAPE SURFACE MUST BE USED A NEW GRAY CONCRETE WITH A SOLAR REFLECTIVE 0.35.
ROOF MATERIALS SHOULD BE LIGHT-COLORED, HIGH ALBEDO OR A PLANTED SURFACE AND SHALL COMPLY WITH ARTICLE 3, SECTION 3.13.2 OF THIS CODE

SOLAR REFLECTIVE ROOF AREAS

SOLAR REFLECTANCE INDEX TO BE SRI 78 REFER TO MECHANICAL DRAWINGS FOR ROOF TOP EQUIPMENTS & ROOF DRAINAGE PIPING & SIZES & LOCATION IN WALLS
GENERAL CONTRACTOR TO PROVIDE FLAT ROOFING NOTE: GAF EVERGUARD TPO 60 MILL SINGLE PLY ROOFING SYSTEM (OR APPROVED EQUAL) (W/ 20 YEAR WARRANTY) 2" TO 10" MAX. (1/4" PER FT.) OVER 2" RIGID INSULATION ON CONCRETE DECK AS RECOMMENDED BY MANUFACTURER AND COMPLYING WITH UPLIFT REQUIREMENTS AS LISTED IN THE STRUCTURAL DRAWINGS.
ROOF SYSTEM SHALL COMPLY WITH SECTION 1507.11 OF THE FLORIDA BUILDING CODE 2020, BUILDING. NOTE: AVERAGE INSULATION R VALUE OF ROOF SYSTEM TO BE R=19 . G.C. TO SUBMIT ROOFING SYSTEM TO ARCHITECT FOR APPROVAL.
COLOR: WHITE

HEAT ISLAND EFFECT SOLAR REFLECTANCE REQUIREMENTS:
ROOFING MATERIALS AND ALL ROOF EXTERIOR SURFACES AND BUILDING MATERIALS SHALL HAVE A MINIMUM SOLAR REFLECTANCE AS PER SECTION 3.13.2.c AND 3.13.2.b WHEN TESTED IN ACCORDANCE WITH ASTM E903 OR ASTM E1918 AS PER MIAMI 21 ARTICLE 3 SECTION 3.13.2 HEAT ISLAND EFFEC

** 3"Ø RAIN WATER LEADERS CAN HANDLE UP TO 1,760 Sq.Ft. ** 4"Ø RAIN WATER LEADERS CAN HANDLE UP TO 3,680 Sq.Ft. OF HORIZONTALLY PROJECTED ROOF AREA.
THIS ROOF TO BE STRUCTURALLY CALCULATED FOR A MAXIMUM ACCUMULATION OF 6" OF WATER IN THE WORST-CASE SCENARIO OF CLOGGED ROOF DRAINS.z

TABLE 1106.3
VERTICAL LEADER SIZING

SIZE OF LEADER (inches)	CAPACITY (gpm)
2	30
2 × 2	30
$1^1/_2 \times 2^1/_2$	30
$2^1/_2$	54
$2^1/_2 \times 2^1/_2$	54
3	92
2 × 4	92
$2^1/_2 \times 3$	92
4	192
$3 \times 4^1/_4$	192
$3^1/_2 \times 4$	192
5	360
4 × 5	360
$4^1/_2 \times 4^1/_2$	360
6	563
5 × 6	563
$5^1/_2 \times 5^1/_2$	563
8	1208
6 × 8	1208

For SI:1 inch = 25.4 mm, 1 gallon per minute = 3.785 L/m.

TABLE 1106.2
STORM DRAIN PIPE SIZING

PIPE SIZE (inches)	CAPACITY (gpm)				
	VERTICAL DRAIN	* SLOPE OF HORIZONTAL DRAIN			
		1/16 inch per foot	1/8 inch per foot	1/4 inch per foot	1/2 inch per foot
2	34	15	22	31	44
3	87	39	55	79	111
4	180	81	115	163	231
5	311	117	165	234	331
6	538	243	344	487	689
8	1,117	505	714	1,010	1,429
10	2,050	927	1,311	1,855	2,623
12	3,272	1,480	2,093	2,960	4,187
15	5,543	2,508	3,546	5,016	7,093

For SI:1 inch = 25.4 mm, 1 foot = 304.8 mm, 1 gallon per minute = 3.785 L/m.

ROOF AREAS

GPM=AREA 1 x 0.052, FBC P 1101.7 C
GPM=1,032 SQ. FT. x 0.052
GPM=53.6

GPM=AREA 2 x 0.052, FBC P 1101.7 C
GPM=1,080 SQ. FT. x 0.052
GPM=56.1

GPM=AREA 3 x 0.052, FBC P 1101.7 C
GPM=981 SQ. FT. x 0.052
GPM=51

GPM=AREA 4 x 0.052, FBC P 1101.7 C
GPM=1,050 SQ. FT. x 0.052
GPM=54.6

GPM=AREA 5 x 0.052, FBC P 1101.7 C
GPM=1,006 SQ. FT. x 0.052
GPM=52.3

GPM=AREA 6 x 0.052, FBC P 1101.7 C
GPM=1,422 SQ. FT. x 0.052
GPM=73.9

GPM=AREA 7 x 0.052, FBC P 1101.7 C
GPM=810 SQ. FT. x 0.052
GPM=42.1

TABLE 1106.7
SIZING SCUPPERS FOR A-5 INCH PER HOUR RATE OF RAINFALL

HEAD IN INCHES	HORIZONTALLY PROJECTED ROOF AREA (SQUARE FEET)						
	LENGTH OF WEIR IN INCHES						
	4	6	8	12	16	20	24
1	230	346	461	692	923	1153	1384
2	641	961	1282	1923	2564	3205	3846
3	1153	1730	2307	3461	4615	5769	6923
4	1794	2692	3589	5384	7179	8974	10,769

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Registration License #AA0013588
Architectural Seal
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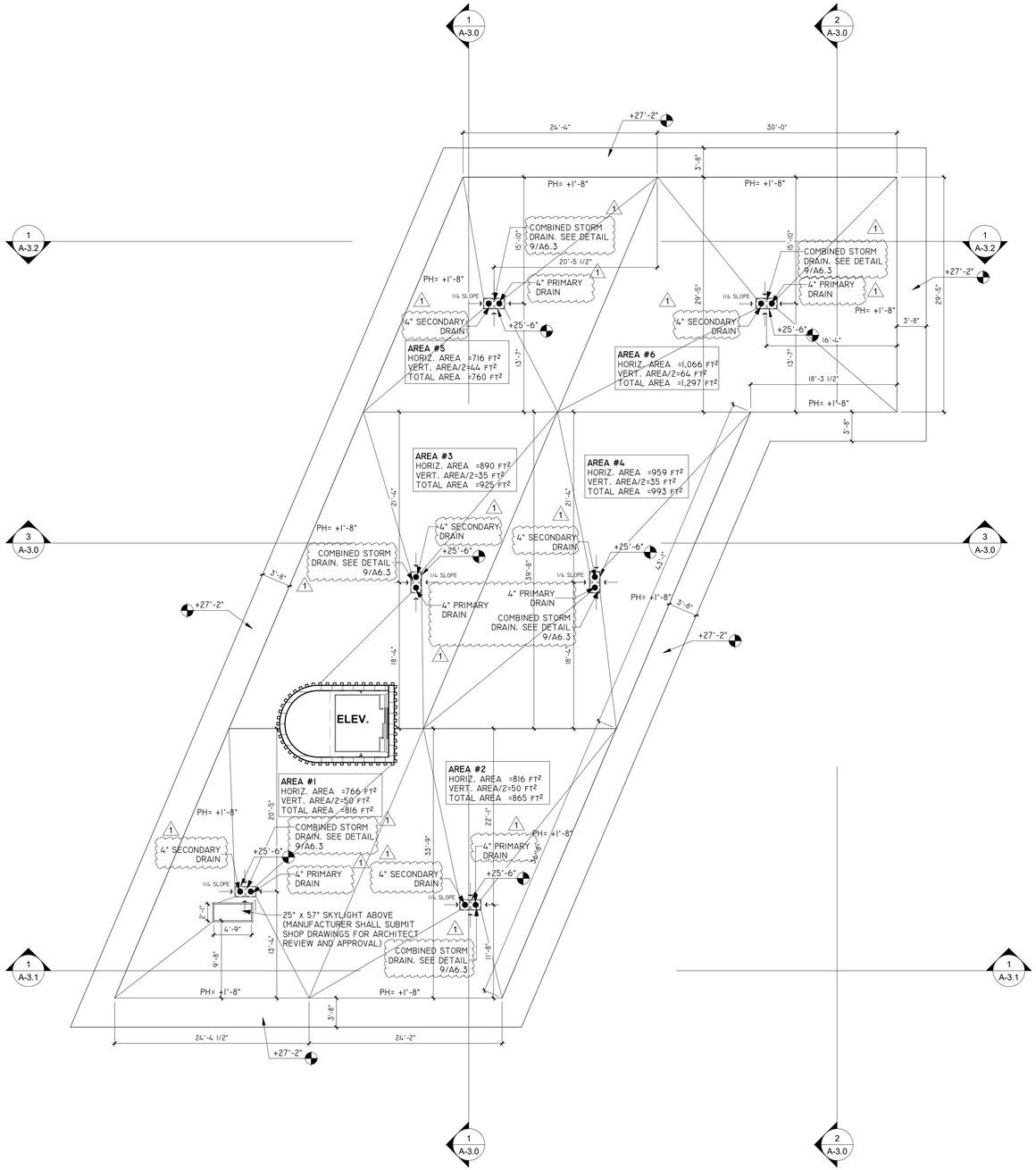
SCALE: AS SHOWN
PROJECT NO: ROOF PLAN
DRAWING NO : A-1.2

Miami Dade County Department of Regulatory and Economic Resources - Job Copy
2023021890 - 7/9/2024 11:49:47 AM
A-1.2 - ROOF PLAN.pdf



1 ROOF
A-1.2 1/8" = 1'-0"

NOTE:
FOR TYPICAL ARCHITECTURAL DETAILS REFER TO SHEET "A-6.2-DETAILS" (ROOFING, WATER-PROOFING, PARAPETS, ROOF DRAINS, SCUPPERS, ETC). REFER TO MECHANICAL, PLUMBING AND ELECTRICAL DRAWING FOR ROOF PENETRATIONS, ROOF DRAIN CALCULATIONS, AND OTHER DETAILS. REFER TO STRUCTURAL DRAWINGS FOR STRUCTURAL DETAILS.

ROOFING INSULATION MATERIAL:
ROOF FINISH SHALL BE GAF RUBEROID MODIFIED BITUMEN ROOF SYSTEM (NOA No. 18-0919.13) EXPIRES 11/06/2023 ON XCI FOIL, XCI CLASS A POYISO ROOF TAPERED INSULATION (NOA No. 18-1024.06) EXPIRES 01/02/2024 OR APPROVED EQUAL.

ROOF SKYLIGHT:
MODEL DCM MOUNT & DSF SELF-FLASHING ALUMINUM SKYLIGHTS BY MAXIUM INDUSTRIES, INC. MIAMI-DADE NOA NO. 18-1217.13 WITH EXPIRATION DATE, 02/20/2024.

SOLAR REFLECTIVE EXTERIOR AREAS

ALL MATERIALS TO COMPLY WITH ARTICLE 3 OF THE MIAMI 21 CODE
ALL EXTERIOR WALKWAYS, VEHICULAR ENTRANCES AND HARDSCAPE SURFACE MUST BE USED A NEW GRAY CONCRETE WITH A SOLAR REFLECTIVE 0.35.
ROOF MATERIALS SHOULD BE LIGHT-COLORED, HIGH ALBEDO OR A PLANTED SURFACE AND SHALL COMPLY WITH ARTICLE 3, SECTION 3.13.2 OF THIS CODE

SOLAR REFLECTIVE ROOF AREAS

SOLAR REFLECTANCE INDEX TO BE SRI 78 REFER TO MECHANICAL DRAWINGS FOR ROOF TOP EQUIPMENTS & ROOF DRAINAGE PIPING & SIZES & LOCATION IN WALLS
GENERAL CONTRACTOR TO PROVIDE FLAT ROOFING NOTE: GAF EVERGUARD TPO 60 MILL SINGLE PLY ROOFING SYSTEM (OR APPROVED EQUAL) (W/ 20 YEAR WARRANTY) 2" TO 10" MAX. (1/4" PER FT.) OVER 2" RIGID INSULATION ON CONCRETE DECK AS RECOMMENDED BY MANUFACTURER AND COMPLYING WITH UPLIFT REQUIREMENTS AS LISTED IN THE STRUCTURAL DRAWINGS.
ROOF SYSTEM SHALL COMPLY WITH SECTION 1507.11 OF THE FLORIDA BUILDING CODE 2020, BUILDING. NOTE: AVERAGE INSULATION R VALUE OF ROOF SYSTEM TO BE R=19 . G.C. TO SUBMIT ROOFING SYSTEM TO ARCHITECT FOR APPROVAL.
COLOR: WHITE

HEAT ISLAND EFFECT SOLAR REFLECTANCE REQUIREMENTS:
ROOFING MATERIALS AND ALL ROOF EXTERIOR SURFACES AND BUILDING MATERIALS SHALL HAVE A MINIMUM SOLAR REFLECTANCE AS PER SECTION 3.13.2.c AND 3.13.2.b WHEN TESTED IN ACCORDANCE WITH ASTM E903 OR ASTM E1918 AS PER MIAMI 21 ARTICLE 3 SECTION 3.13.2 HEAT ISLAND EFFEC

** 3"Ø RAIN WATER LEADERS CAN HANDLE UP TO 1,760 Sq.Ft. ** 4"Ø RAIN WATER LEADERS CAN HANDLE UP TO 3,680 Sq.Ft. OF HORIZONTALLY PROJECTED ROOF AREA.
THIS ROOF TO BE STRUCTURALLY CALCULATED FOR A MAXIMUM ACCUMULATION OF 6" OF WATER IN THE WORST-CASE SCENARIO OF CLOGGED ROOF DRAINS.z

TABLE 1106.3
VERTICAL LEADER SIZING

SIZE OF LEADER (inches)	CAPACITY (gpm)
2	30
2 × 2	30
$1^1/_2 \times 2^1/_2$	30
$2^1/_2$	54
$2^1/_2 \times 2^1/_2$	54
3	92
2 × 4	92
$2^1/_2 \times 3$	92
4	192
$3 \times 4^1/_4$	192
$3^1/_2 \times 4$	192
5	360
4 × 5	360
$4^1/_2 \times 4^1/_2$	360
6	563
5 × 6	563
$5^1/_2 \times 5^1/_2$	563
8	1208
6 × 8	1208

For SI:1 inch = 25.4 mm, 1 gallon per minute = 3.785 L/m.

TABLE 1106.2
STORM DRAIN PIPE SIZING

PIPE SIZE (inches)	CAPACITY (gpm)				
	VERTICAL DRAIN	SLOPE OF HORIZONTAL DRAIN			
		1/16 inch per foot	1/8 inch per foot	1/4 inch per foot	1/2 inch per foot
2	34	15	22	31	44
3	87	39	55	79	111
4	180	81	115	163	231
5	311	117	165	234	331
6	538	243	344	487	689
8	1,117	505	714	1,010	1,429
10	2,050	927	1,311	1,855	2,623
12	3,272	1,480	2,093	2,960	4,187
15	5,543	2,508	3,546	5,016	7,093

For SI:1 inch = 25.4 mm, 1 foot = 304.8 mm, 1 gallon per minute = 3.785 L/m.

92 FLORIDA BUILDING CODE — PLUMBING 7TH EDITION (2020)

ROOF AREAS

GPM=AREA 1 x 0.052, FBC P 1101.7 C
GPM=1,032 SQ. FT. x 0.052
GPM=53.6

GPM=AREA 2 x 0.052, FBC P 1101.7 C
GPM=1,080 SQ. FT. x 0.052
GPM=56.1

GPM=AREA 3 x 0.052, FBC P 1101.7 C
GPM=981 SQ. FT. x 0.052
GPM=51

GPM=AREA 4 x 0.052, FBC P 1101.7 C
GPM=1,050 SQ. FT. x 0.052
GPM=54.6

GPM=AREA 5 x 0.052, FBC P 1101.7 C
GPM=1,006 SQ. FT. x 0.052
GPM=52.3

GPM=AREA 6 x 0.052, FBC P 1101.7 C
GPM=1,422 SQ. FT. x 0.052
GPM=73.9

GPM=AREA 7 x 0.052, FBC P 1101.7 C
GPM=810 SQ. FT. x 0.052
GPM=42.1

TABLE 1106.7
SIZING SCUPPERS FOR A-5 INCH PER HOUR RATE OF RAINFALL

HEAD IN INCHES	HORIZONTALLY PROJECTED ROOF AREA (SQUARE FEET)						
	LENGTH OF WEIR IN INCHES						
	4	6	8	12	16	20	24
1	230	346	461	692	923	1153	1384
2	641	961	1282	1923	2564	3205	3846
3	1153	1730	2307	3461	4615	5769	6923
4	1794	2692	3589	5384	7179	8974	10,769

JORGE L VILLAVICENCIO
Digitally signed by JORGE L VILLAVICENCIO
Date: 2023.11.06 09:52:24 -05'00'

REVISIONS

Rev.	Date	Description
1	10-9-2023	Building comment

FIDANZA'S FAMILY HOUSE
NEW CONSTRUCTION
11041 SW 77TH AVE, PINECREST, FL 33156

Construction Service Certificate No. CGC1536358 — Architectural Seal — STATE OF FLORIDA — JORGE LUIS VILLAVICENCIO — REGISTERED ARCHITECT — LICENSE NO. AR0012110

VILLA & ASSOCIATES INC.
ARCHITECTURE - PLANNING - INTERIOR DESIGN
5801 SW 69 AVENUE - MIAMI, FLORIDA 33155
TEL. 305-613-0865 - E-Mail Jvillarchitect@gmail.com

CONSULTANT : ARCHI-TEK STUDIO CORP.
TEL. 305-799-8016 - E-Mail magullar@architekstudio.com

DATE: 10-20-2022
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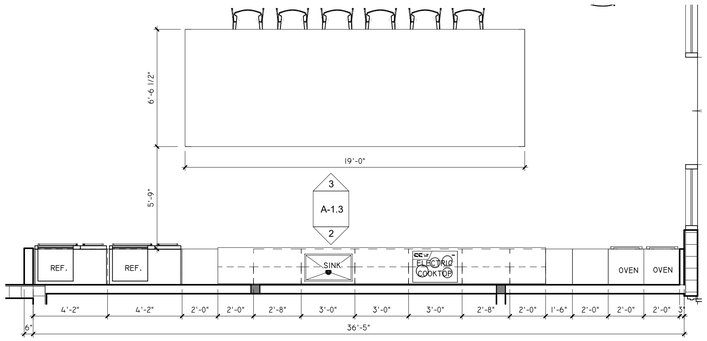
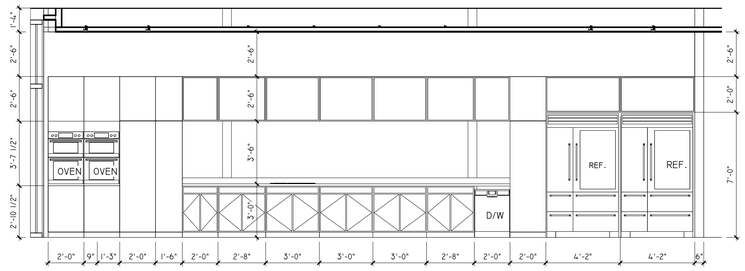
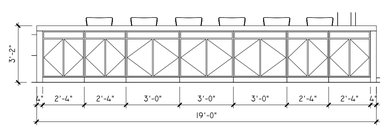
A-1.2 - ROOF PLAN_V2.pdf



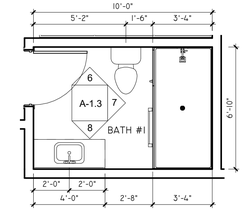
1 A-1.3 KITCHEN -FLOOR PLAN
1/4" = 1'-0"



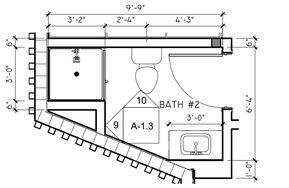
2 A-1.3 KITCHEN-ELEVATION 1
1/4" = 1'-0"



3 A-1.3 KITCHEN-ELEVATION 2
1/4" = 1'-0"



4 A-1.3 BATH #1- FLOOR PLAN
1/4" = 1'-0"



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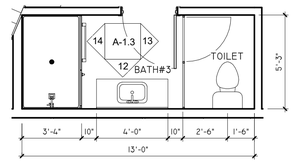

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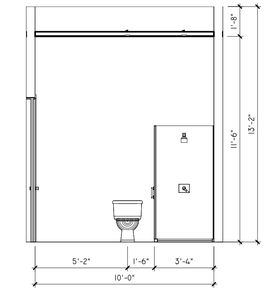

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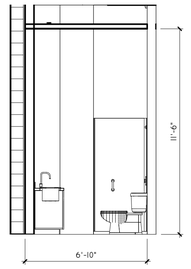

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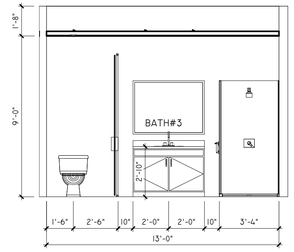
1/4" = 1'-0"



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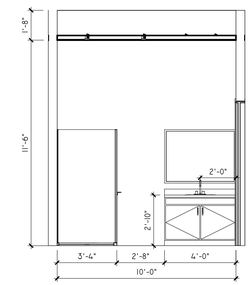

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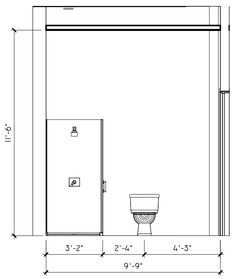
1/4" = 1'-0"



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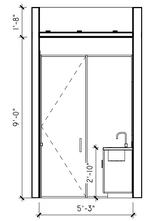
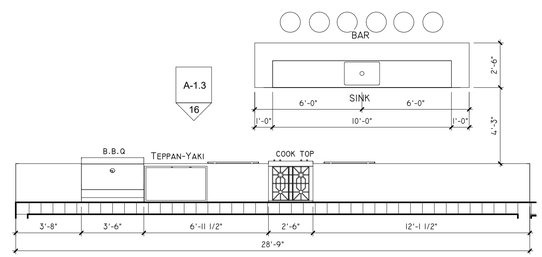
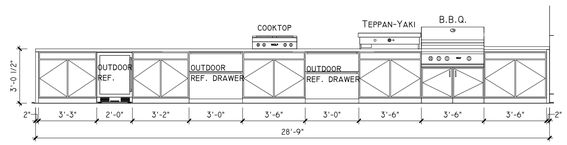
1/4" = 1'-0"



13 A-1.3 BATH #3-ELEVATION 2
1/4" = 1'-0"



15 A-1.3 OUTDOOR KITCHEN- FLOOR PLAN
1/4" = 1'-0"



16 A-1.3 OUTDOOR KITCHEN- ELEVATION
1/4" = 1'-0"

1. SHOWER/BATHTUB COMPARTMENT MUST HAVE FLOOR AND WALLS CONSTRUCTED OF SMOOTH, CORROSION RESISTANT AND NON ABSORBENT WATER-RESISTANT MATERIAL TO A HEIGHT OF NOT LESS THAN 72" ABOVE THE COMPARTMENT FLOOR AT THE DRAIN AS PER FBC 2020.
2. CERAMIC TILE WALL FINISH AND TUB SHOWER AREAS SHALL HAVE CEMENT FIBER OR GLASS MAT BACKING BOARD, AS PER F.B.C. R702.4.2.
3. GLAZING WITHIN 60" OF FLOOR LEVEL IN WALLS SURROUNDING TUB OR SHOWER WITHIN 60" HORIZONTALLY OF TUB OR SHOWER SHALL BE SAFETY GLAZING CAT. II PER FBC 2020 2406.4.5 & R 308.4.5 F.B.C. 2020.
4. EVERY BATHROOM DOOR LOCK SHALL BE DESIGNED TO PERMIT THE OPENING OF THE LOCKED DOOR FROM THE OUTSIDE IN AN EMERGENCY.

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A-1.3 - KITCHEN BATH.pdf

REVISIONS

Rev.	Date	Description

FIDANZA'S FAMILY HOUSE
NEW CONSTRUCTION
11041 SW 77TH AVE, PINECREST, FL 33156

STATE OF FLORIDA
JORGE LUIS VILLAVICENCIO
Registration License No. AR0003589
Architectural Seal
AR0012110
REGISTERED ARCHITECT
JORGE L VILLAVICENCIO

JORGE L VILLAVICENCIO
Digitally signed by JORGE L VILLAVICENCIO
Date: 2023.08.28 11:41:36 -04'00'

VILLA & ASSOCIATES INC.
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TEL. 305-613-0865 - E-Mail Jvillarchitect@gmail.com

CONSULTANT : ARCHI-TEK STUDIO CORP.
TEL. 305-799-8016 - E-Mail magullar@architekstudio.com

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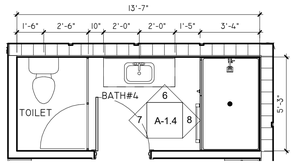
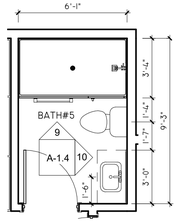


1 A-1.4 BATH #4- FLOOR PLAN
1/4" = 1'-0"



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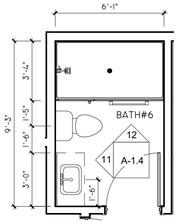

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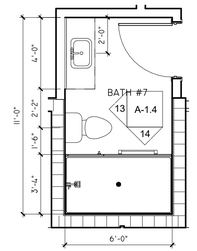

4 A-1.4 BATH #7- FLOOR PLAN
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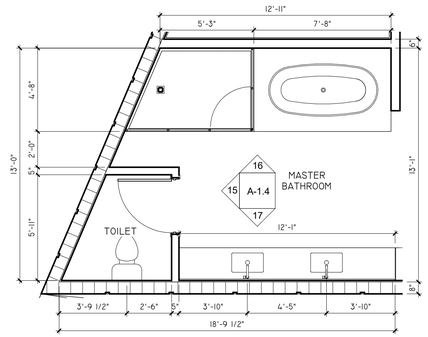
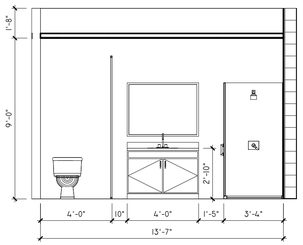


5 A-1.4 MASTER BATHROOM- FLOOR PLAN
1/4" = 1'-0"



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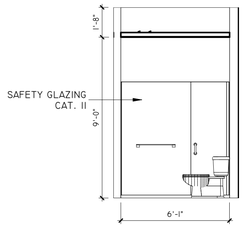

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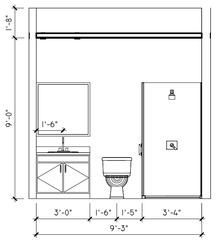
1/4" = 1'-0"



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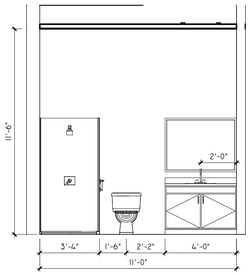
1/4" = 1'-0"



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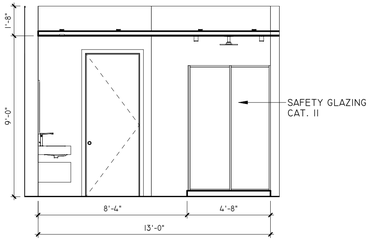
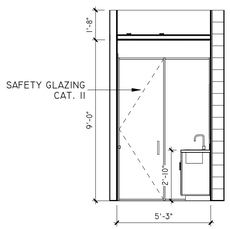
1/4" = 1'-0"



15 A-1.4 MASTER BATHROOM -ELEVATION 1
1/4" = 1'-0"



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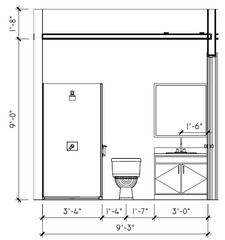

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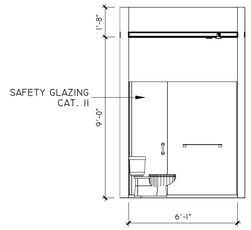

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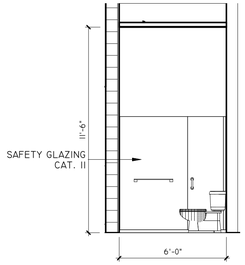

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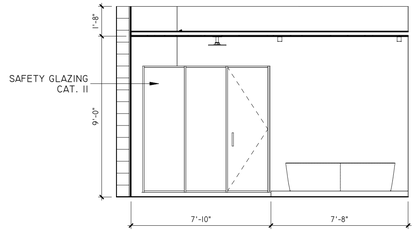

16 A-1.4 MASTER BATHROOM -ELEVATION 2
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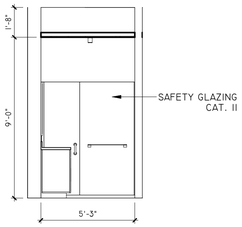
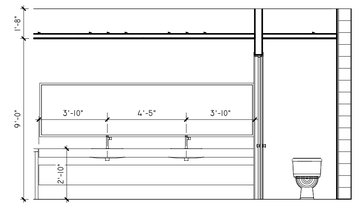


8 A-1.4 BATH #4-ELEVATION 3
1/4" = 1'-0"



17 A-1.4 MASTER BATHROOM -ELEVATION 3
1/4" = 1'-0"

1. SHOWER/BATHTUB COMPARTMENT MUST HAVE FLOOR AND WALLS CONSTRUCTED OF SMOOTH, CORROSION RESISTANT AND NON ABSORBENT WATER-RESISTANT MATERIAL TO A HEIGHT OF NOT LESS THAN 72" ABOVE THE COMPARTMENT FLOOR AT THE DRAIN AS PER FBC 2020.
2. CERAMIC TILE WALL FINISH AND TUB SHOWER AREAS SHALL HAVE CEMENT FIBER OR GLASS MAT BACKING BOARD, AS PER F.B.C. R702.4.2.
3. GLAZING WITHIN 60" OF FLOOR LEVEL IN WALLS SURROUNDING TUB OR SHOWER WITHIN 60" HORIZONTALLY OF TUB OR SHOWER SHALL BE SAFETY GLAZING CAT. II PER FBC 2020 2406.4.5 & R 308.4.5 F.B.C. 2020.
4. EVERY BATHROOM DOOR LOCK SHALL BE DESIGNED TO PERMIT THE OPENING OF THE LOCKED DOOR FROM THE OUTSIDE IN AN EMERGENCY.

REVISIONS

Rev.	Date	Description

FIDANZA'S FAMILY HOUSE
NEW CONSTRUCTION
11041 SW 77TH AVE, PINECREST, FL 33156

JORGE L VILLAVICENCIO

Digitally signed by JORGE L VILLAVICENCIO
Date: 2023.08.28 11:39:18 -04'00'

STATE OF FLORIDA — JORGE L. VILLAVICENCIO — REGISTERED ARCHITECT — Architectural Seal — Registration Number AR0012110 — Certificate of Authorization No. AA0003589

VILLA & ASSOCIATES INC.
ARCHITECTURE - PLANNING - INTERIOR DESIGN
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TEL. 305-613-0865 - E-Mail Jvillarchitect@gmail.com

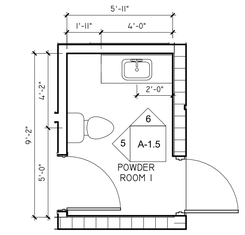
CONSULTANT : ARCHI-TEK STUDIO CORP.
TEL. 305-799-8016 - E-Mail magullar@architekstudio.com

DATE:	SCALE:
10-20-2022	AS SHOWN

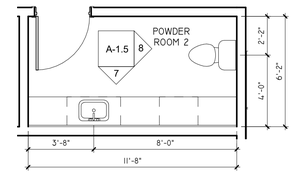
PROJECT NO: BATH

DRAWING NO : A-1.4

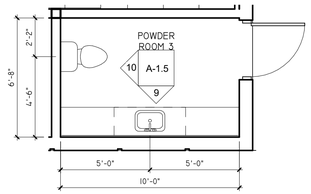
Miami Dade County Department of Regulatory and Economic Resources - Job Copy
2023021890 - 7/9/2024 11:49:47 AM
A-1.4 - BATH.pdf



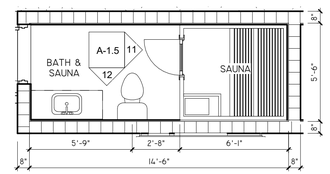
1 A-1.5 POWDER ROOM 1-FLOOR PLAN
1/4" = 1'-0"



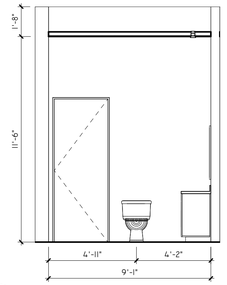
2 A-1.5 POWDER ROOM 2-FLOOR PLAN
1/4" = 1'-0"



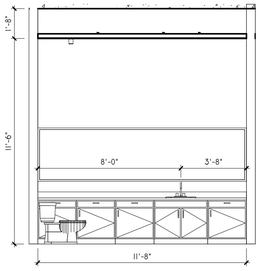
3 A-1.5 POWDER ROOM 3-FLOOR PLAN
1/4" = 1'-0"



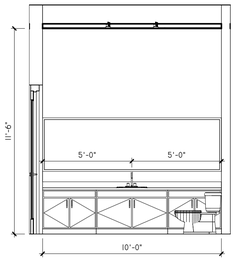
4 A-1.5 BATH & SAUNA- FLOOR PLAN
1/4" = 1'-0"



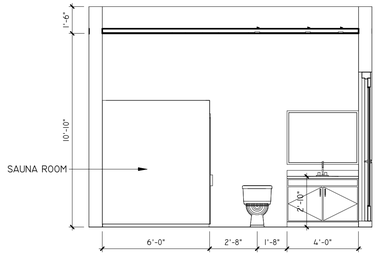
5 A-1.5 POWDER ROOM 1-ELEVATION 1
1/4" = 1'-0"



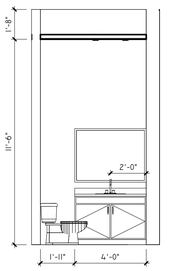
7 A-1.5 POWDER ROOM 2-ELEVATION 1
1/4" = 1'-0"



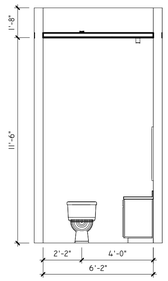
9 A-1.5 POWDER ROOM 3-ELEVATION 1
1/4" = 1'-0"



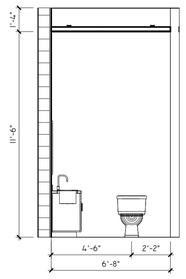
12 A-1.5 BATH & SAUNA -ELEVATION 1
1/4" = 1'-0"



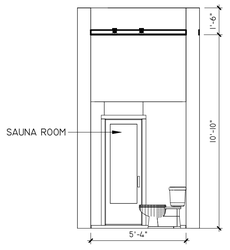
6 A-1.5 POWDER ROOM 1-ELEVATION 2
1/4" = 1'-0"



8 A-1.5 POWDER ROOM 2-ELEVATION 2
1/4" = 1'-0"



10 A-1.5 POWDER ROOM 3-ELEVATION 2
1/4" = 1'-0"



11 A-1.5 BATH & SAUNA -ELEVATION 2
1/4" = 1'-0"

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REVISIONS

Rev.	Date	Description

FIDANZA'S FAMILY HOUSE
NEW CONSTRUCTION
11041 SW 77TH AVE, PINECREST, FL 33156

JORGE L VILLAVICENCIO
Digitally signed by JORGE L VILLAVICENCIO
Date: 2023.08.28 11:41:16 -04'00'

STATE OF FLORIDA
JORGE L. VILLAVICENCIO
REGISTERED ARCHITECT
Architectural Seal
R0012110
Certification Office
AA0003588

VILLA & ASSOCIATES INC.
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TEL. 305-799-8016 - E-Mail magullar@architekstudio.com

DATE: 10-20-2022
SCALE: AS SHOWN
PROJECT NO: BATH
DRAWING NO : A-1.5

Miami Dade County Department of Regulatory and Economic Resources - Job Copy
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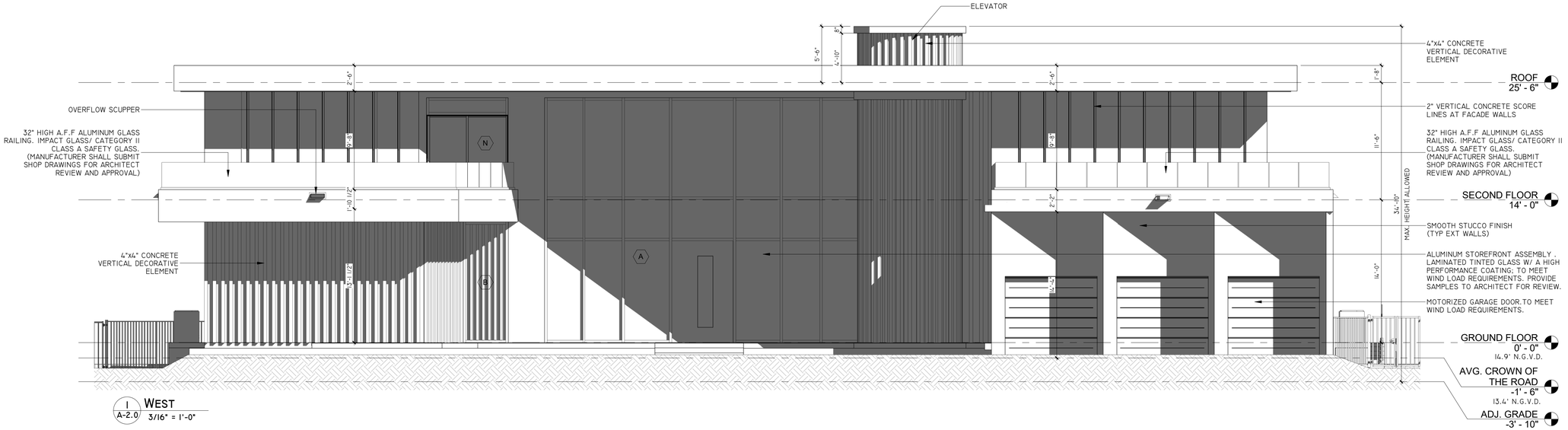
A-1.5 - BATH.pdf



JORGE L VILLAVICENCIO

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Date: 2023.08.28 11:42:59 -04'00'

REVISIONS

Rev.	Date	Description

FIDANZA'S FAMILY HOUSE
NEW CONSTRUCTION
11041 SW 77TH AVE, PINECREST, FL 33156

STATE OF FLORIDA
Architectural Seal
JORGE L VILLAVICENCIO
#AA0003589
0012110
REGISTERED ARCHITECT

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TEL. 305-799-8016 - E-Mail maguilar@architekstudio.com

DATE: 10-20-2022
SCALE: AS SHOWN
PROJECT NO: ELEVATION EAST & WEST
DRAWING NO : A-2.0

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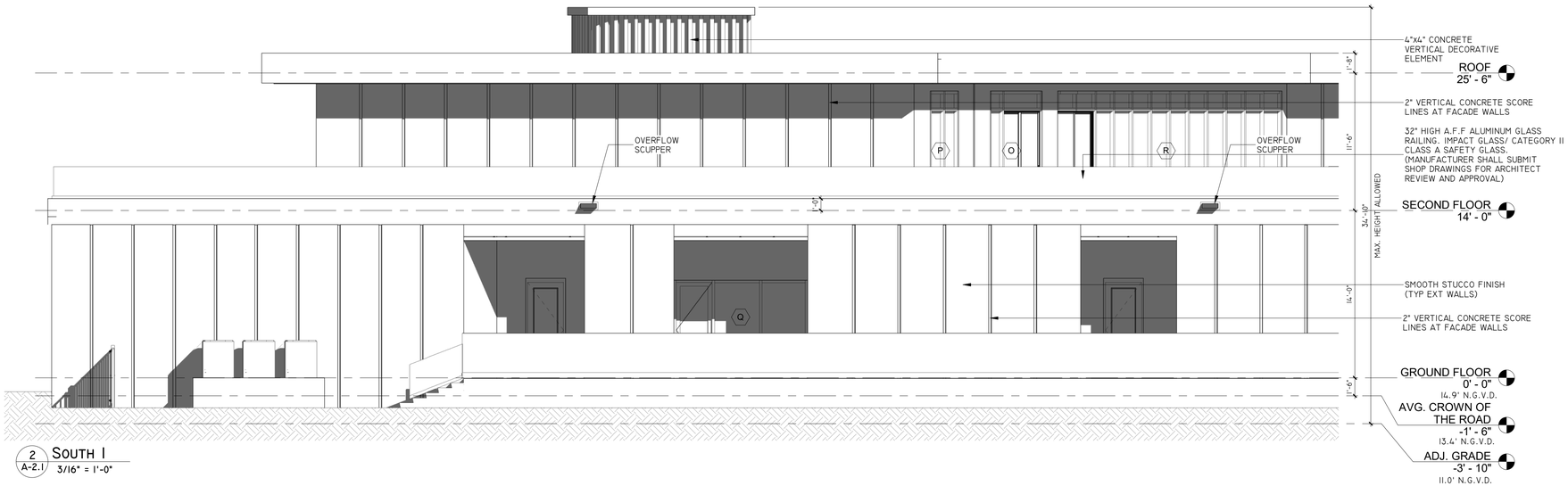
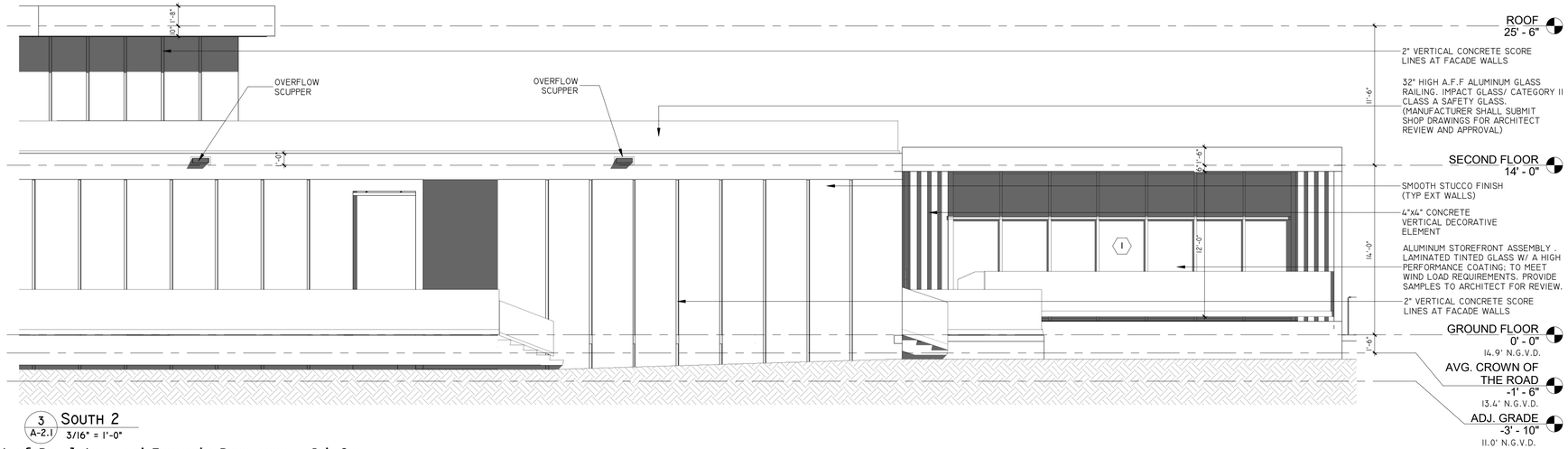
A-2.0 - ELEVATION EAST WEST.pdf

1 A-2.1 SOUTH
1/8" = 1'-0"



2 A-2.1 SOUTH 1
3/16" = 1'-0"



3 A-2.1 SOUTH 2
3/16" = 1'-0"

JORGE L VILLAVICENCIO

Digitally signed by JORGE L VILLAVICENCIO
Date: 2023.08.28 11:43:23 -04'00'

REVISIONS

Rev.	Date	Description

FIDANZA'S FAMILY HOUSE
NEW CONSTRUCTION
11041 SW 77TH AVE, PINECREST, FL 33156

Corporation License AA0003589 STATE OF FLORIDA JORGE L VILLAVICENCIO Architectural Seal R0012110 REGISTERED ARCHITECT

VILLA & ASSOCIATES INC.
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TEL. 305-799-8016 - E-Mail maguilar@architekstudio.com

DATE:	SCALE:
10-20-2022	AS SHOWN

PROJECT NO: ELEVATION SOUTH

DRAWING NO : A-2.1

Miami Dade County Department of Regulatory and Economic Resources - Job Copy
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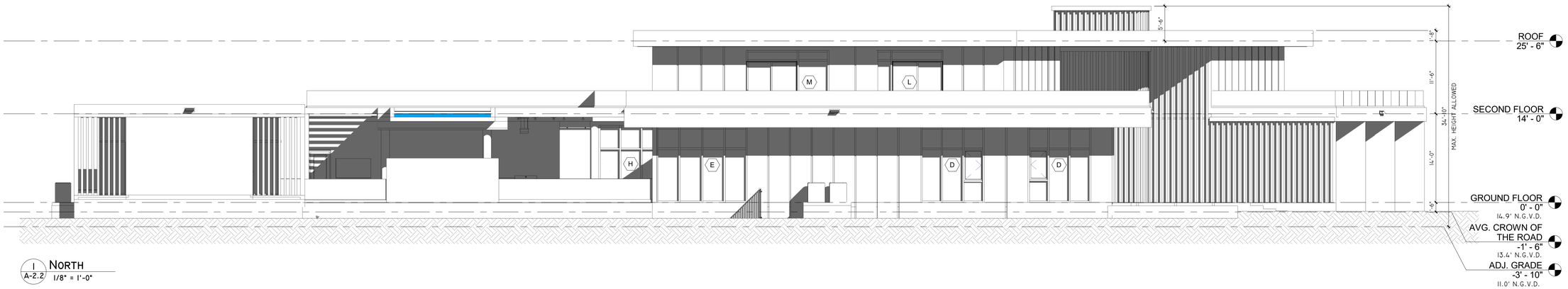
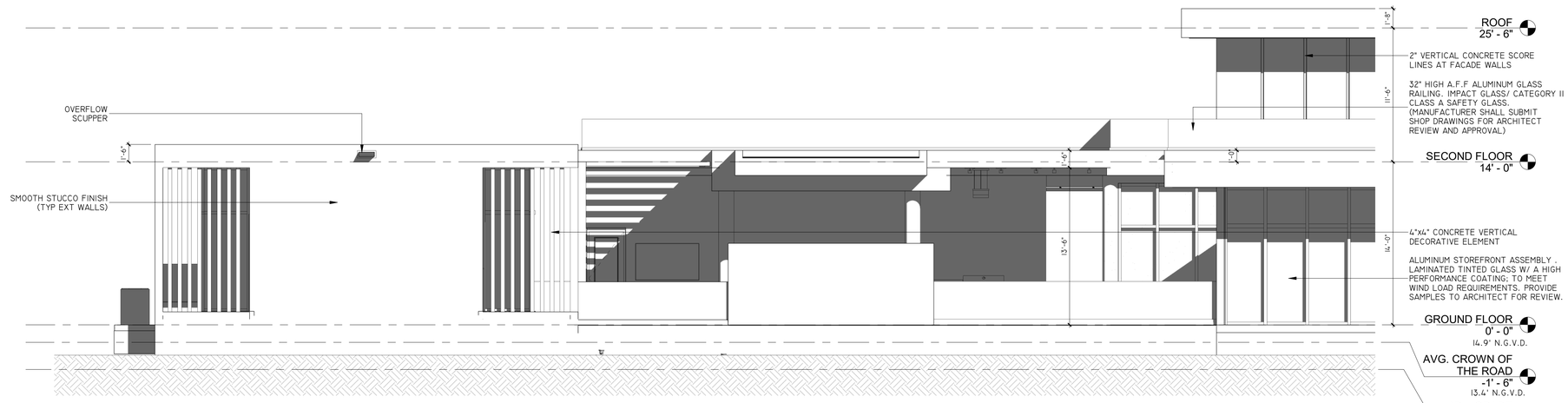
A-2.1 - ELEVATION SOUTH.pdf



1 A-2.2 NORTH
1/8" = 1'-0"

2 A-2.2 NORTH 1
3/16" = 1'-0"



3 A-2.2 NORTH 2
3/16" = 1'-0"

JORGE L VILLAVICENCIO

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Date: 2023.08.28 11:43:44 -04'00'

REVISIONS

Rev.	Date	Description

FIDANZA'S FAMILY HOUSE
NEW CONSTRUCTION
11041 SW 77TH AVE, PINECREST, FL 33156

STATE OF FLORIDA
JORGE L VILLAVICENCIO
Architectural Seal
R0012110
REGISTERED ARCHITECT
Corporation Licensed
OPA0003589
JORGE L VILLAVICENCIO
AR0012110

VILLA & ASSOCIATES INC.
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CONSULTANT : ARCHI-TEK STUDIO CORP.
TEL. 305-799-8016 - E-Mail maguilar@architekstudio.com

DATE: 10-20-2022
SCALE: AS SHOWN
PROJECT NO: ELEVATION NORTH
DRAWING NO : A-2.2

Miami Dade County Department of Regulatory and Economic Resources - Job Copy
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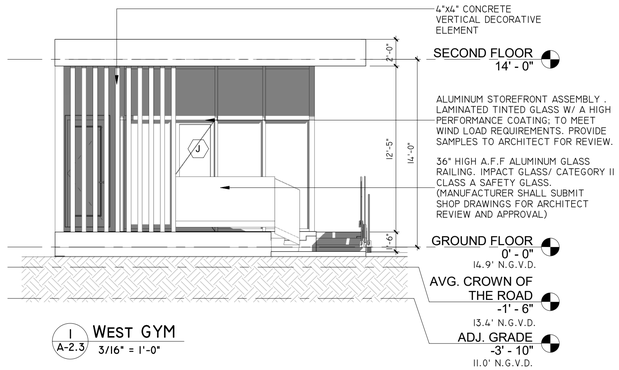
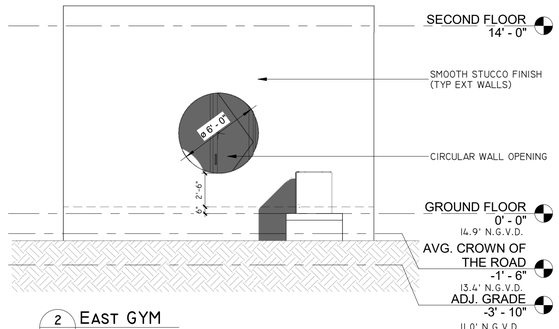
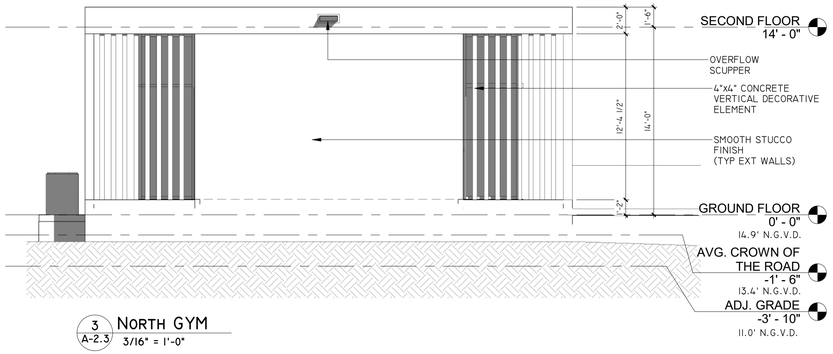
A-2.2 - ELEVATION NORTH.pdf



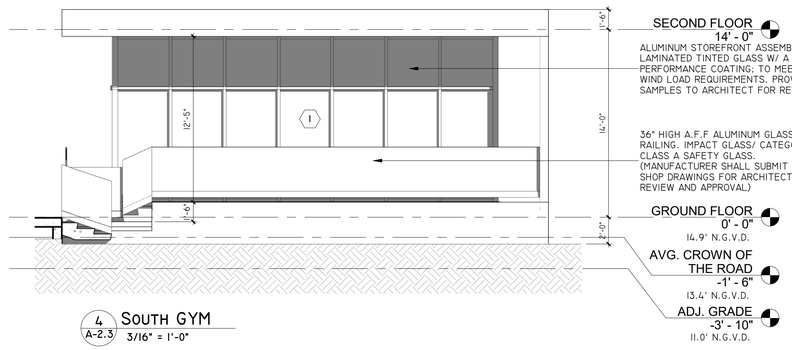
1 A-2.3 WEST GYM
3/16" = 1'-0"



2 A-2.3 EAST GYM
3/16" = 1'-0"



3 A-2.3 NORTH GYM
3/16" = 1'-0"



4 A-2.3 SOUTH GYM
3/16" = 1'-0"

PROJECT NOTES

01-ALL DIMENSIONS TO BE FIELD VERIFIED BY CONTRACTOR.

02-ALL DOOR DIMENSIONS SHOWN TO BE VERIFIED BY GC. REFER TO SCHEDULE FOR DOOR SIZE AND TYPE.

03-ALL ADA CLEARANCES TO BE VERIFIED AND AHERED TO BY G.C.

04-GLASS WALL AND GLASS DOOR TO BE SAFETY CATEGORY II.

05-ALL GLASS WINDOWS/DOORS TO RECEIVE IMPACT RESISTANT GLASS AND TO COMPLY W/ENERGY CALCULATION.

06-PROVIDE HANDRAIL AT 34"HT AND GUARD RAIL 42" HT .GC TO SUBMIT SHOP DRAWINGS.SEE DETAIL.

07-EMERGENCY MEANS OF ESCAPE EXIT DOOR. ACCORDING FBC'17 R310.4. DOOR SHALL BE SIDE HINGED, 32" MIN. WIDTH CLEARANCE & 78" MIN. CLEAR HT.

08-LANDING MUST NOT HAVE MORE THAN 1 1\2" LOWER THAN THE TOP OF THRESHOLD. (FBC'17 R 311.3.1).

09-COORDINATE ALL MASONRY OPENINGS FOR WINDOWS & DOORS WITH WINDOWS & DOOR MANUFACTURER PRIOR TO TIE BEAM AND BLOCK ERECTION.

10-ALL GLASS WINDOWS/ DOORS TO RECEIVE IMPACT RESISTANT GLASS AND TO COMPLY W/ ENERGY CALCULATIONS.

11-PLEASE SEE STRUCTURAL DRAWINGS FOR THE WIND PRESSURES CALCULATIONS.

HEAT ISLAND EFFECT SOLAR REFLECTANCE REQUIREMENTS:
ROOFING MATERIALS AND ALL ROOF EXTERIOR SURFACES AND BUILDING MATERIALS SHALL HAVE A MINIMUM SOLAR REFLECTANCE AS PER SECTION3.13.2.C AND 3.13.2.D WHEN TESTED IN ACCORDANCE WITH ASTM E903 OR ASTM E1918 AS PER MIAMI 21 ARTICLE 3 SECTION 3.13.2 HEAT ISLAND EFFECT

SUSTAINABILITY REQUIREMENTS:
BUILDING SHALL COMPLY WITH SUSTAINABILITY REQUIREMENTS AS PER MIAMI 21 SECTION 3.13.1

REVISIONS

Rev.	Date	Description

FIDANZA'S FAMILY HOUSE
NEW CONSTRUCTION
11041 SW 77TH AVE, PINECREST, FL 33156

JORGE L VILLAVICENCIO

Digitally signed by JORGE L VILLAVICENCIO
Date: 2023.08.28 11:44:06 -04'00'

STATE OF FLORIDA — JORGE L. VILLAVICENCIO — Architectural Seal — AR0012110 — REGISTERED ARCHITECT
Certificate of Authorization # AA0003587

VILLA & ASSOCIATES INC.
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CONSULTANT : ARCHI-TEK STUDIO CORP.
TEL. 305-799-8016 - E-Mail magullar@architekstudio.com

DATE: 10-20-2022
SCALE: AS SHOWN
PROJECT NO: ELEVATION GYM
DRAWING NO : A-2.3

Miami Dade County Department of Regulatory and Economic Resources - Job Copy
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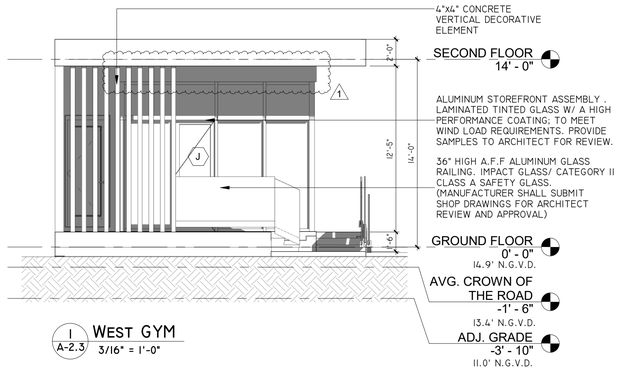
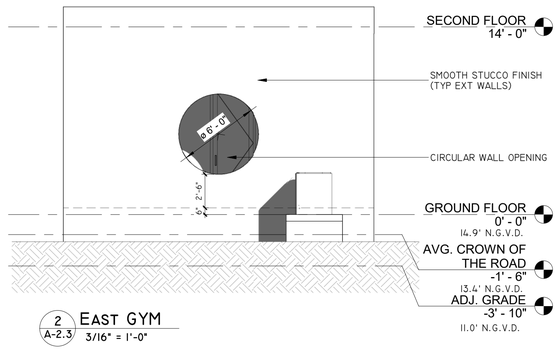
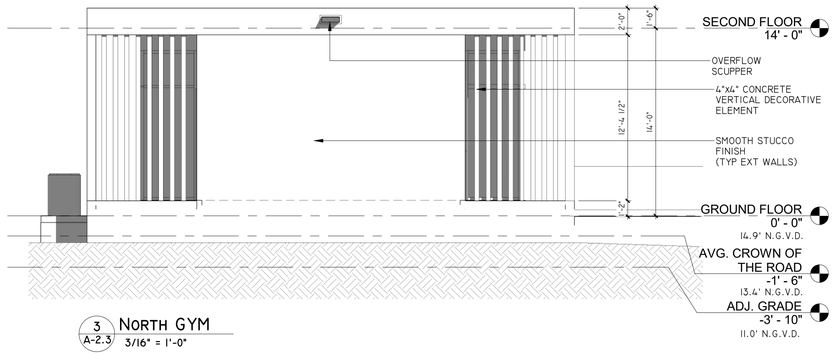
A-2.3 - ELEVATION GYM.pdf



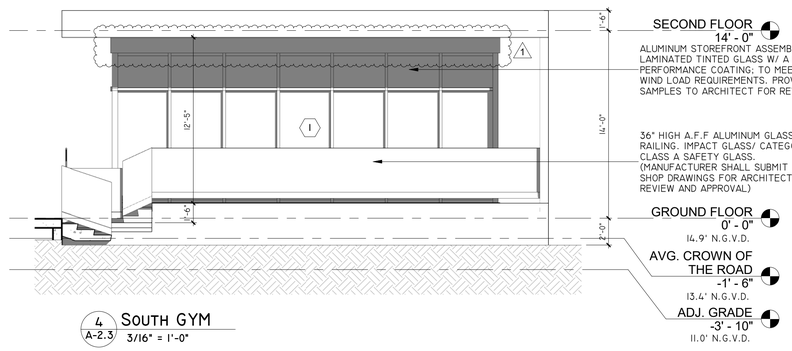
1 A-2.3 WEST GYM
3/16" = 1'-0"



2 A-2.3 EAST GYM
3/16" = 1'-0"



3 A-2.3 NORTH GYM
3/16" = 1'-0"



4 A-2.3 SOUTH GYM
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SUSTAINABILITY REQUIREMENTS:
BUILDING SHALL COMPLY WITH SUSTAINABILITY REQUIREMENTS AS PER MIAMI 21 SECTION 3.13.1

REVISIONS

Rev.	Date	Description
1	10-9-2023	Building comment

FIDANZA'S FAMILY HOUSE
NEW CONSTRUCTION
11041 SW 77TH AVE, PINECREST, FL 33156

STATE OF FLORIDA
JORGE L VILLAVICENCIO
REGISTERED ARCHITECT
Architectural Seal
Registration License No. AR0003588
AA0012110

JORG E L VILLA VICEN CIO
Digitally signed by JORGE L VILLAVICENCIO
Date: 2023.11.06 09:51:26 -05'00'

VILLA & ASSOCIATES INC.
ARCHITECTURE - PLANNING - INTERIOR DESIGN
5801 SW 69 AVENUE - MIAMI, FLORIDA 33155
TEL. 305-613-0865 - E-Mail Jvillarchitect@gmail.com

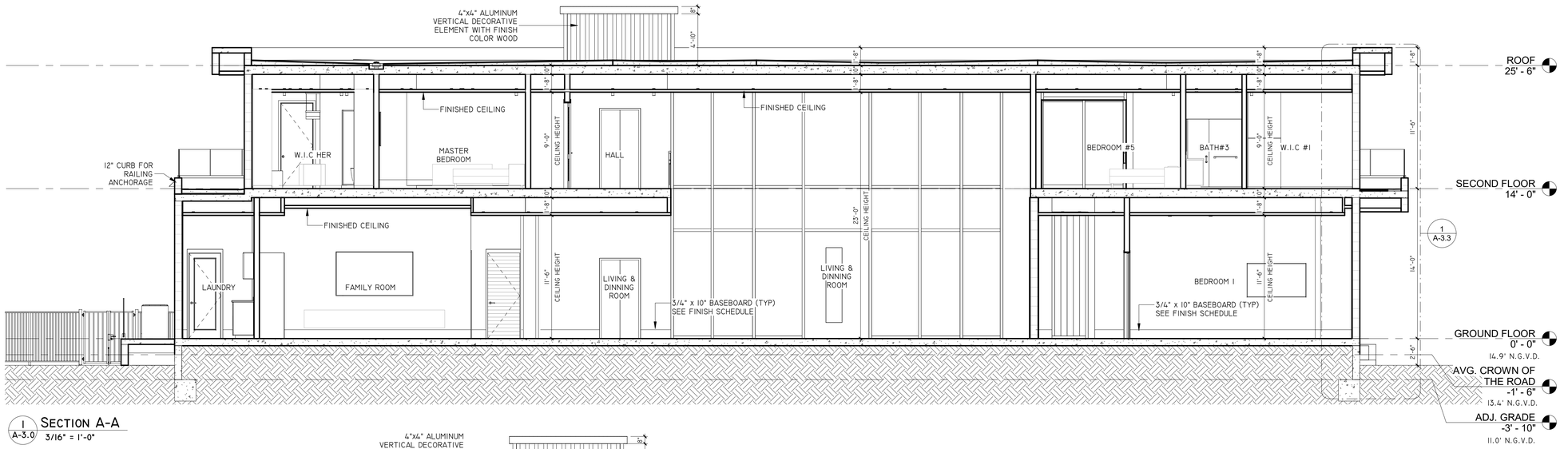
CONSULTANT : ARCHI-TEK STUDIO CORP.
TEL. 305-799-8016 - E-Mail magullar@architekstudio.com

DATE:	SCALE:
10-20-2022	AS SHOWN

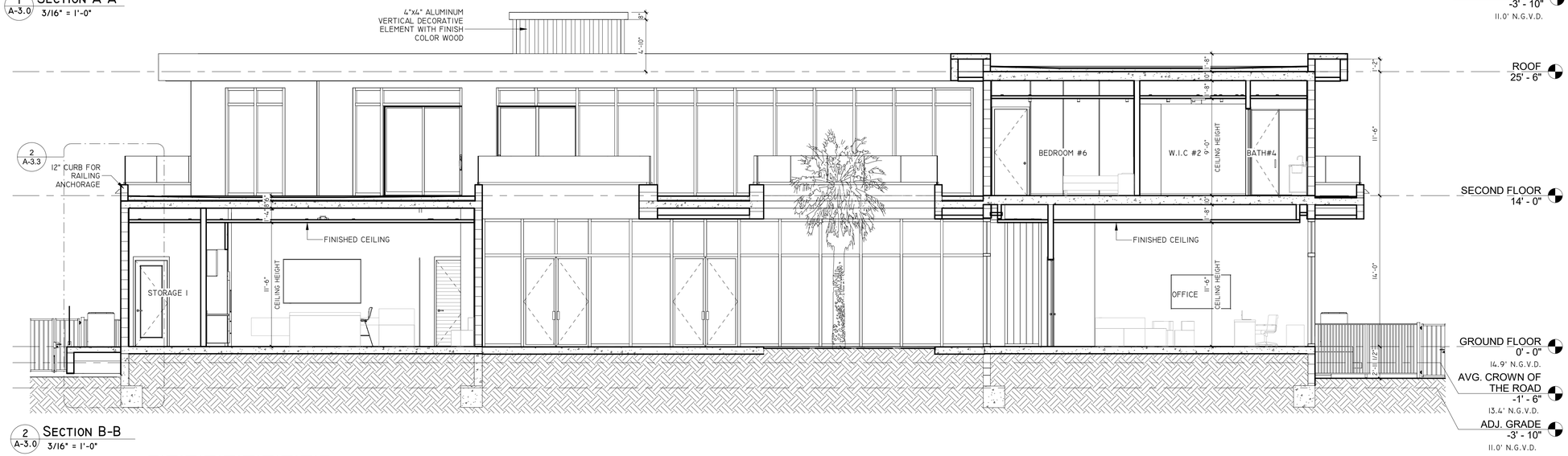
PROJECT NO: ELEVATION GYM

DRAWING NO : A-2.3

Miami Dade County Department of Regulatory and Economic Resources - Job Copy
2023021890 - 7/9/2024 11:49:47 AM
A-2.3 - ELEVATION GYM_V2.pdf



1 A-3.0 SECTION A-A
3/16" = 1'-0"



2 A-3.0 SECTION B-B
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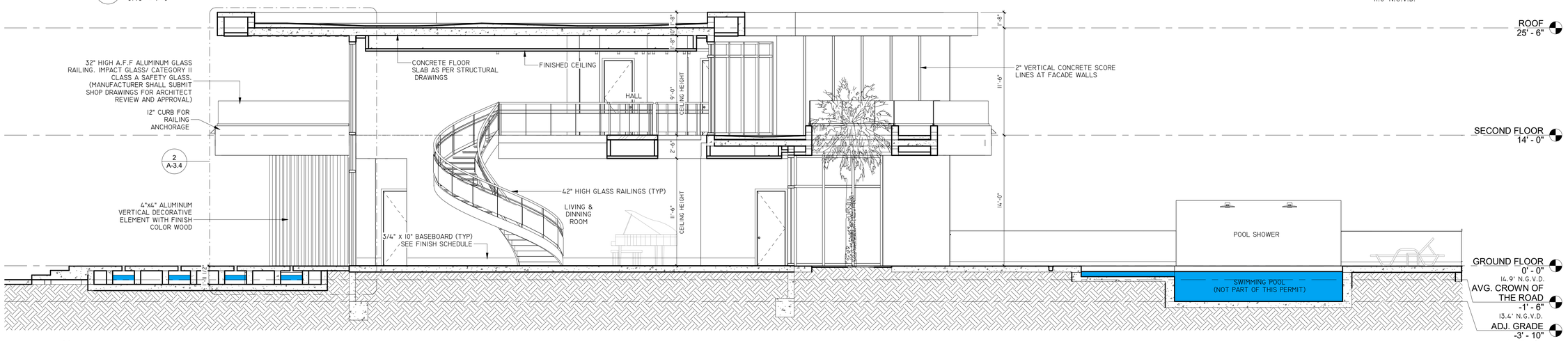

3 SECTION C-C
3/16" = 1'-0"

JORGE L VILLAVICENCIO

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Date: 2023.08.28 11:45:37 -04'00'

REVISIONS

Rev.	Date	Description

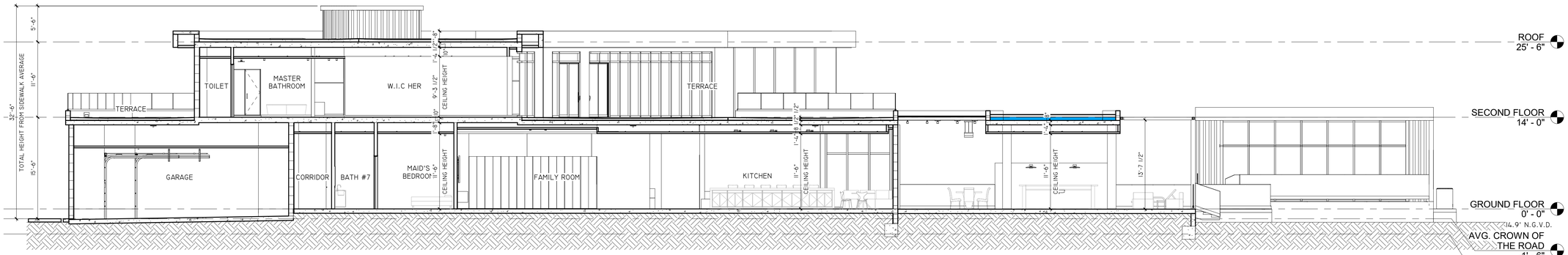
FIDANZA'S FAMILY HOUSE
NEW CONSTRUCTION
11041 SW 77TH AVE, PINECREST, FL 33156

Corporation Lic. #AA0003589 STATE OF FLORIDA
Architectural Seal
JORGE L VILLAVICENCIO
R0012110
REGISTERED ARCHITECT
JORGE L VILLAVICENCIO
AR0012110

VILLA & ASSOCIATES INC.
ARCHITECTURE - PLANNING - INTERIOR DESIGN
5801 SW 69 AVENUE - MIAMI, FLORIDA 33155
TEL. 305-613-0865 - E-Mail Jvillarchitect@gmail.com
CONSULTANT : ARCHI-TEK STUDIO CORP.
TEL. 305-799-8016 - E-Mail maguilar@architekstudio.com

DATE: 10-20-2022
SCALE: AS SHOWN
PROJECT NO: SECTION A-A, B-B & C-C
DRAWING NO : A-3.0

Miami Dade County Department of Regulatory and Economic Resources - Job Copy
2023021890 - 7/9/2024 11:49:47 AM
A-3.0 - SECTION A-A B-B C-C.pdf



1 A-3.1 SECTION D-D
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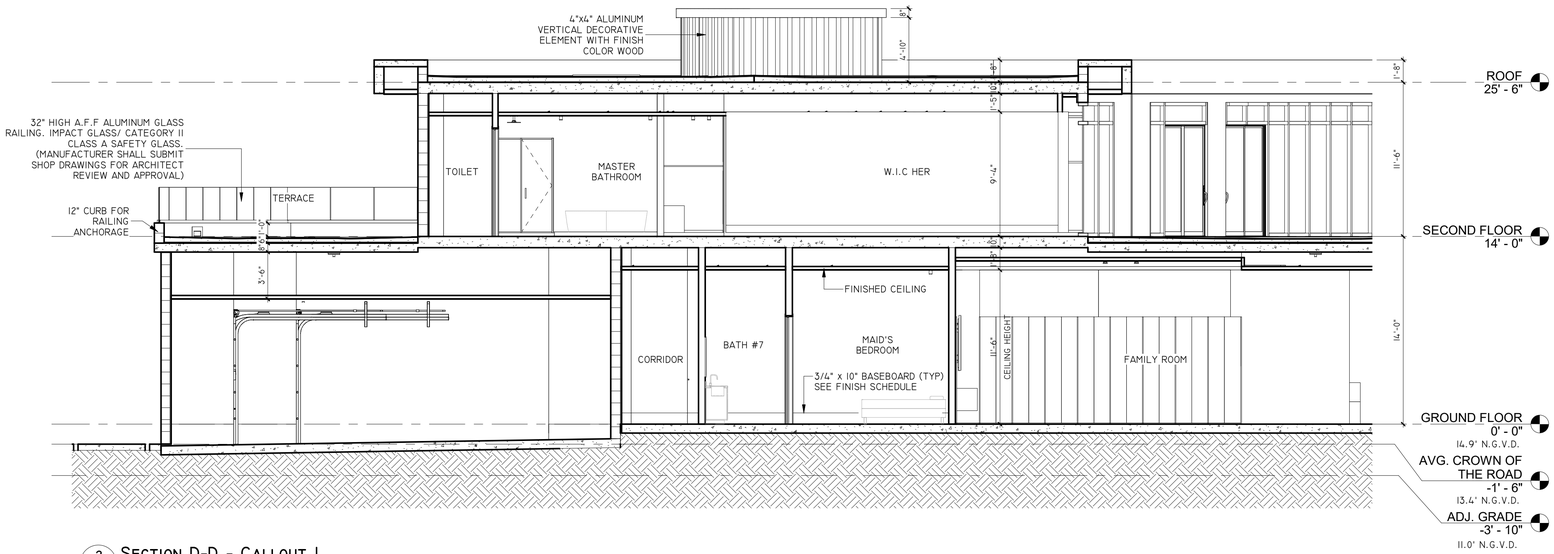

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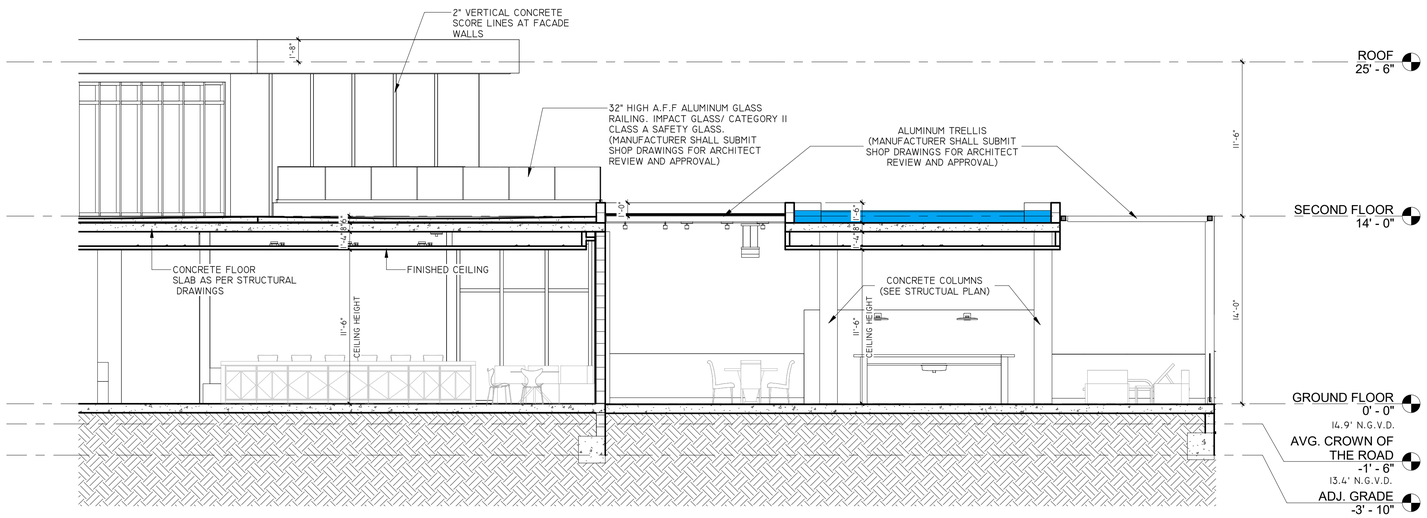

3 A-3.1 SECTION D-D - CALLOUT 2
3/16" = 1'-0"

REVISIONS

Rev.	Date	Description

FIDANZA'S FAMILY HOUSE
NEW CONSTRUCTION
11041 SW 77TH AVE, PINECREST, FL 33156

JORGE L VILLAVICENCIO

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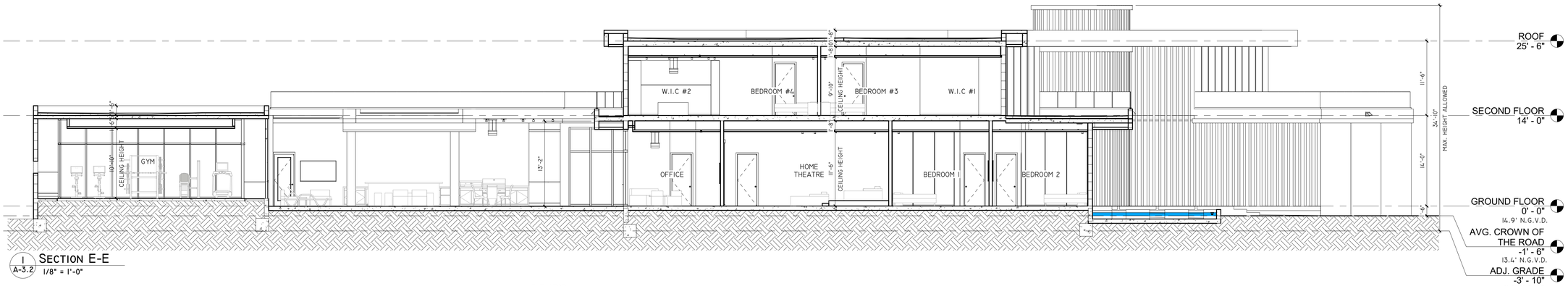
Date: 2023.08.28 11:46:22 -04'00'

VILLA & ASSOCIATES INC.
ARCHITECTURE - PLANNING - INTERIOR DESIGN
5801 SW 69 AVENUE - MIAMI, FLORIDA 33155
TEL. 305-613-0865 - E-Mail Jvillarchitect@gmail.com
CONSULTANT : ARCHI-TEK STUDIO CORP.
TEL. 305-799-8016 - E-Mail maguilar@architekstudio.com

DATE: 10-20-2022
SCALE: AS SHOWN
PROJECT NO: SECTION D-D
DRAWING NO : A-3.1

Miami Dade County Department of Regulatory and Economic Resources - Job Copy
2023021890 - 7/9/2024 11:49:47 AM
A-3.1 - SECTION D-D.pdf



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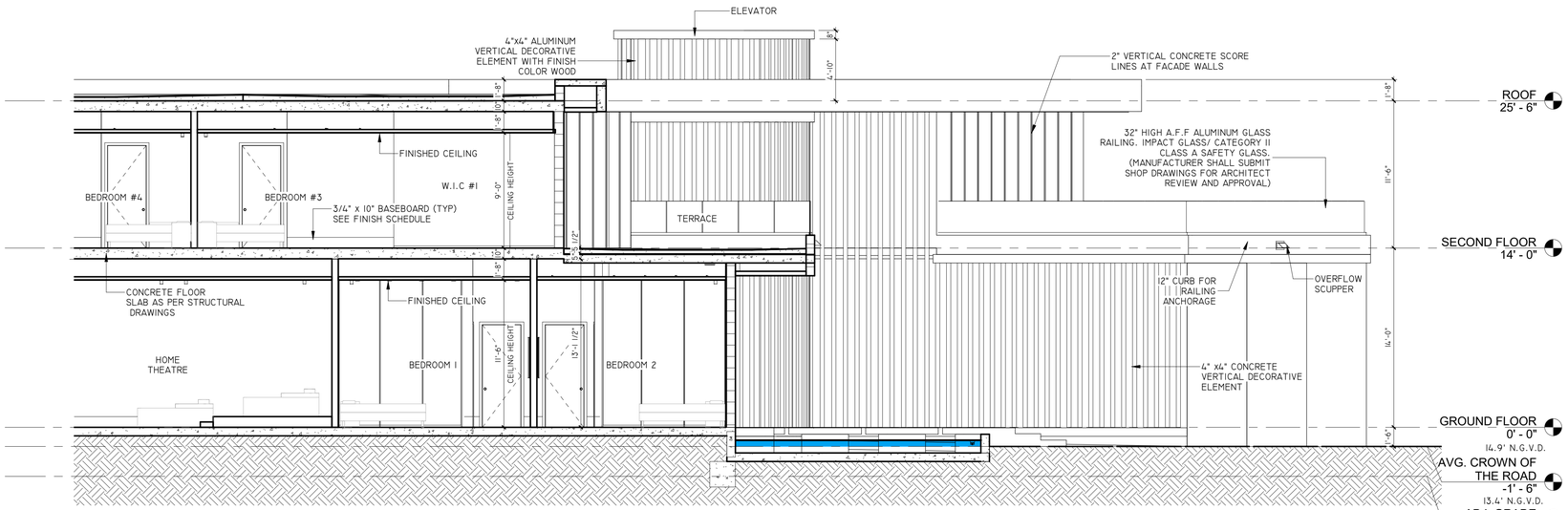
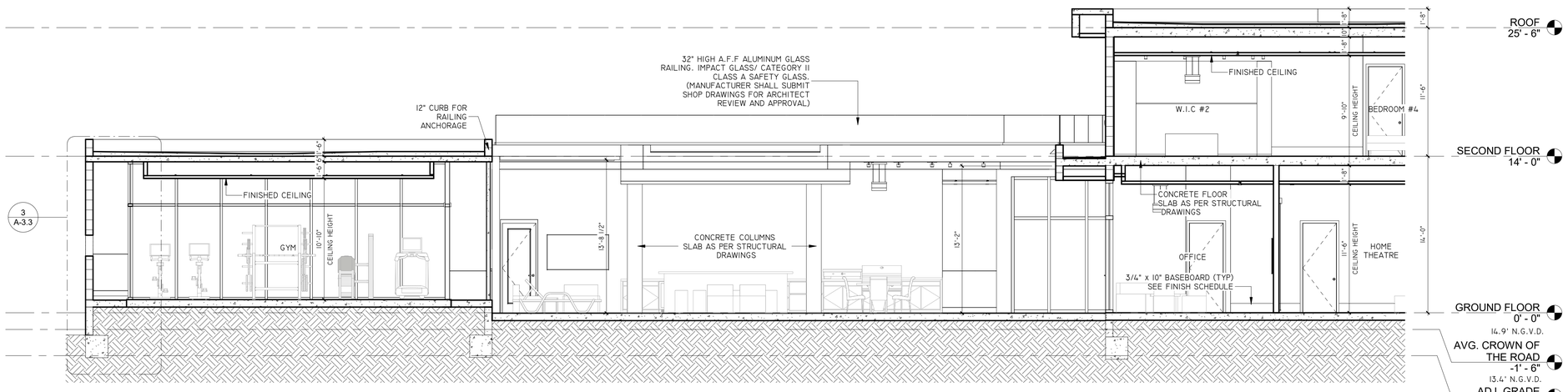


2 A-3.2 SECTION E-E - CALLOUT 1
3/16" = 1'-0"



3 A-3.3

3 A-3.2 SECTION E-E - CALLOUT 2
3/16" = 1'-0"

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A-3.2 - SECTION E-E.pdf

REVISIONS		
Rev.	Date	Description

FIDANZA'S FAMILY HOUSE
NEW CONSTRUCTION
11041 SW 77TH AVE, PINECREST, FL 33156

Certificate of Authorization No. AA0003588
STATE OF FLORIDA
JORGE L VILLAVICENCIO
REGISTERED ARCHITECT
No. AR0012110

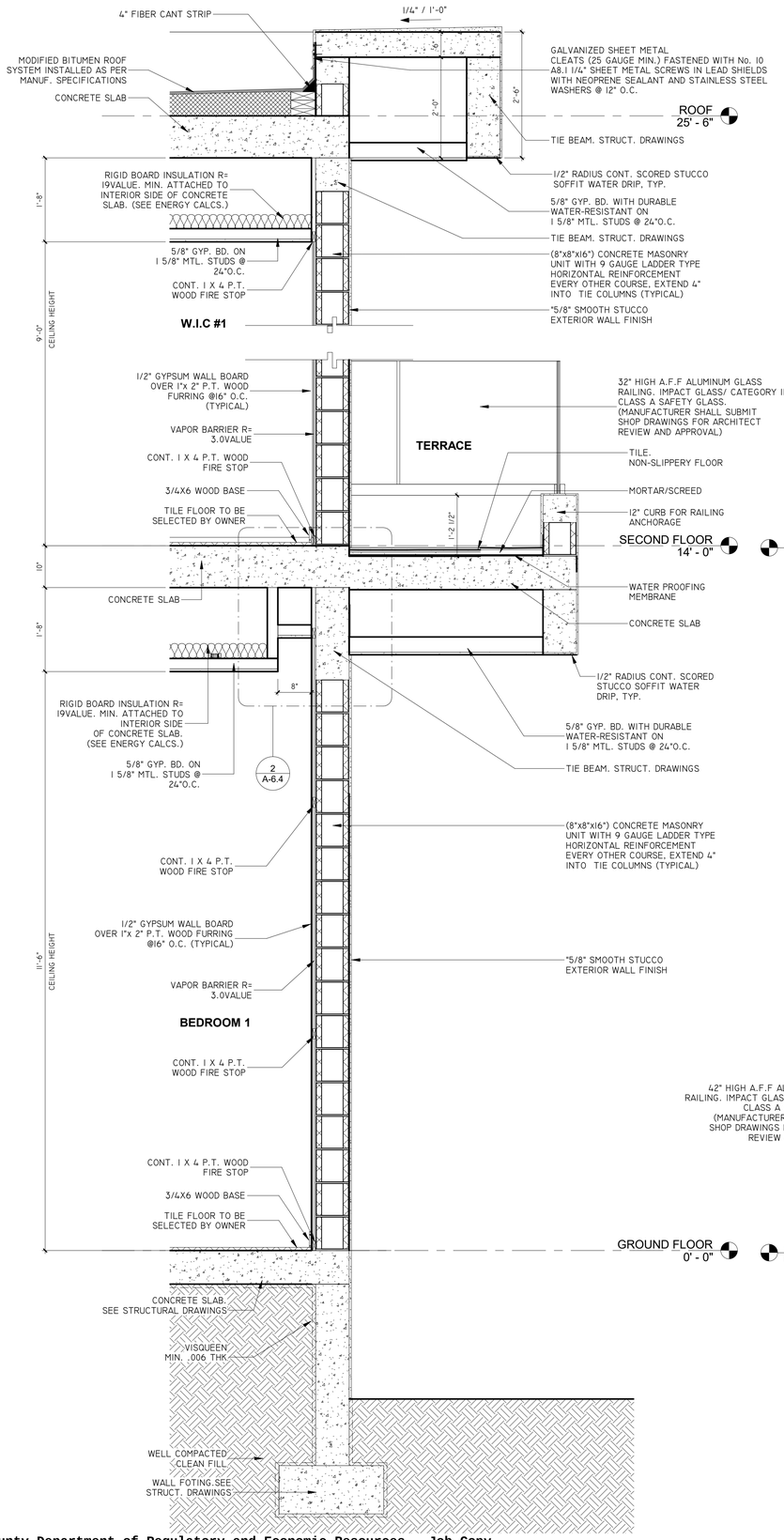
JORGE L VILLAVICENCIO
Digitally signed by JORGE L VILLAVICENCIO
Date: 2023.08.28 11:46:43 -04'00'

VILLA & ASSOCIATES INC.
ARCHITECTURE - PLANNING - INTERIOR DESIGN
5801 SW 69 AVENUE - MIAMI, FLORIDA 33155
TEL. 305-613-0865 - E-Mail Jvillarchitect@gmail.com
CONSULTANT : ARCHI-TEK STUDIO CORP.
TEL. 305-799-8016 - E-Mail magullar@architekstudio.com

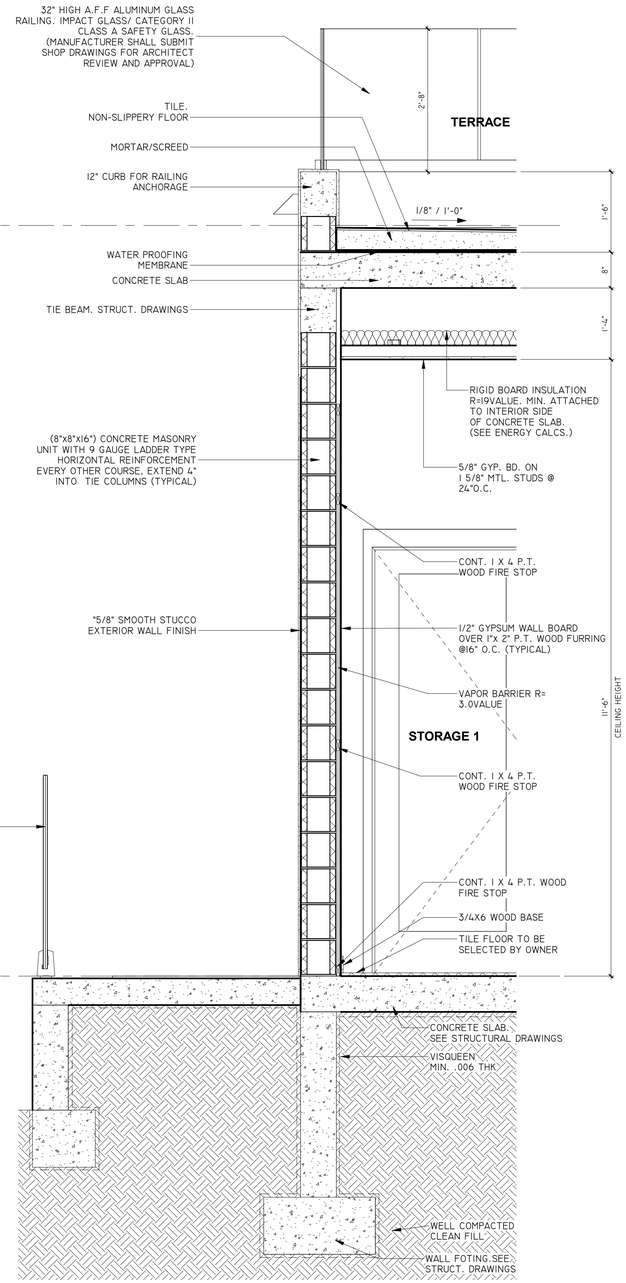
DATE:	SCALE:
10-20-2022	AS SHOWN

PROJECT NO: SECTION E-E

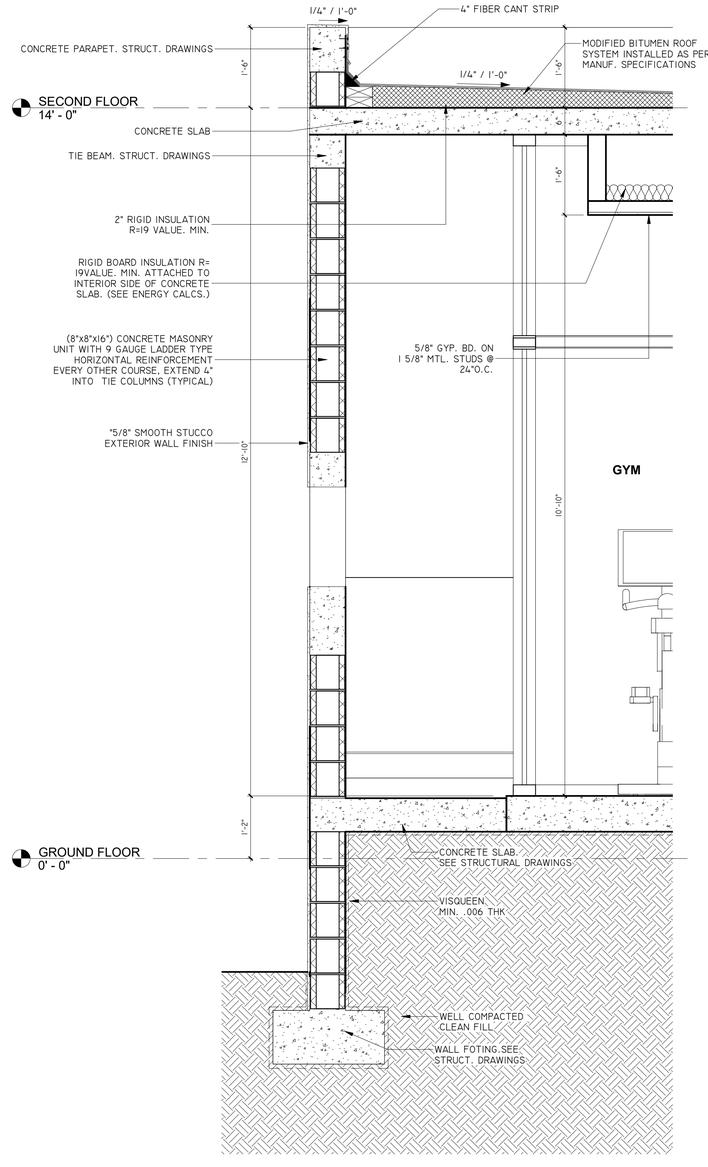
DRAWING NO : A-3.2



1 WALL SECTION A-A
A-3.3 3/4" = 1'-0"



2 WALL SECTION B-B
A-3.3 3/4" = 1'-0"



3 WALL SECTION E-E
A-3.3 3/4" = 1'-0"

Miami Dade County Department of Regulatory and Economic Resources - Job Copy
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A-3.3 - WALL SECTION.pdf

JORGE L VILLAVICENCIO

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REVISIONS

Rev.	Date	Description

FIDANZA'S FAMILY HOUSE
NEW CONSTRUCTION
11041 SW 77TH AVE, PINECREST, FL 33156

STATE OF FLORIDA
Certification License No. AR0003589
JORGE L VILLAVICENCIO
REGISTERED ARCHITECT
No. 0012110
Architectural Seal

VILLA & ASSOCIATES INC.
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TEL. 305-613-0865 - E-Mail Jvillarchitect@gmail.com

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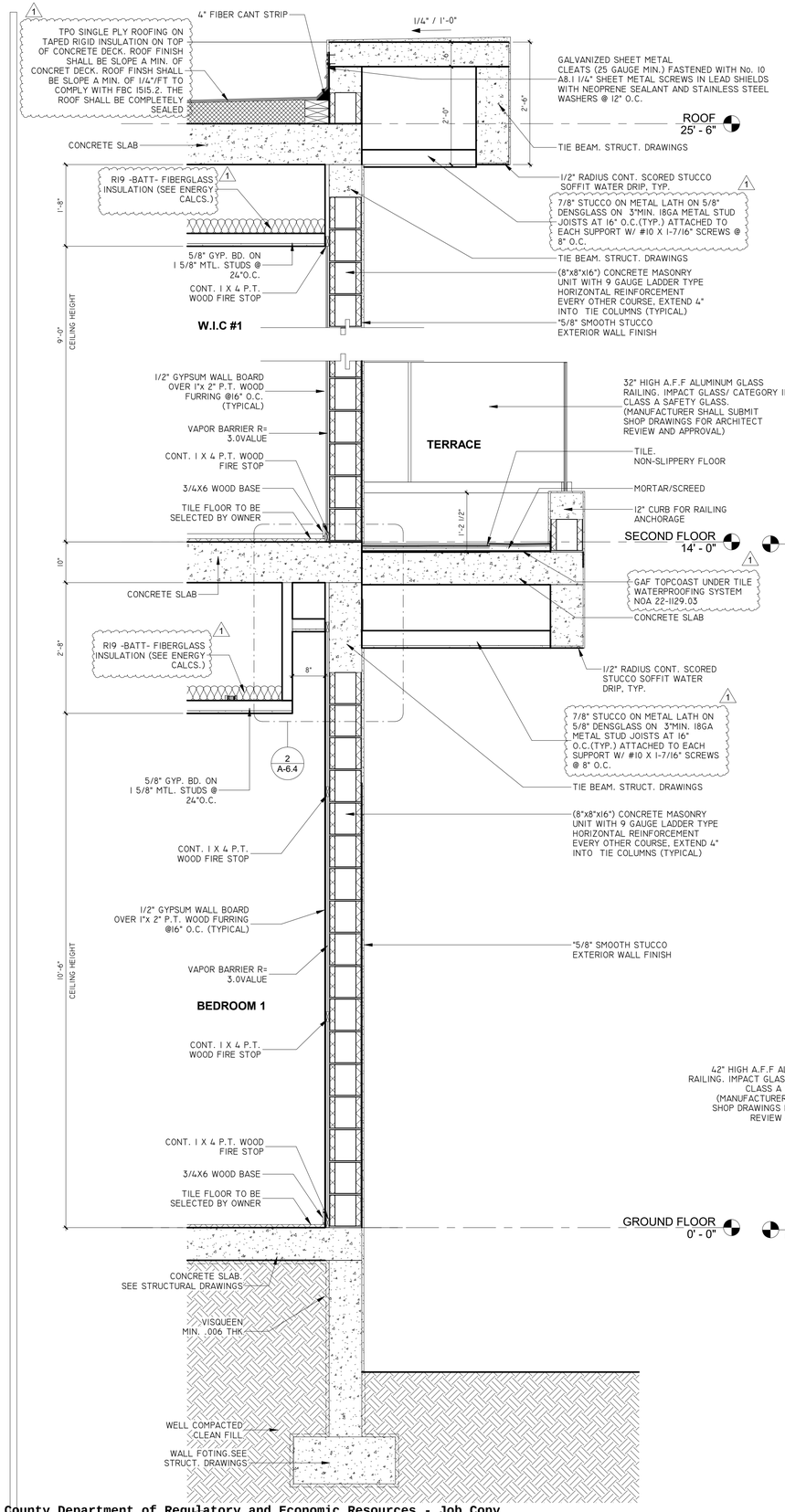
TEL. 305-799-8016 - E-Mail magular@architekstudio.com

DATE:	SCALE:
10-20-2022	AS SHOWN

PROJECT NO: WALL SECTION

DRAWING NO : A-3.3



JORGE L VILLAVICENCIO

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Date: 2023.11.06 09:51:07 -05'00'

REVISIONS			
	Rev.	Date	Description
	1	10-9-2023	Building comment

FIDANZA'S FAMILY HOUSE
NEW CONSTRUCTION
11041 SW 77TH AVE, PINECREST, FL 33156

Certification Of Authorization No. AA0003589
Architectural Seal
STATE OF FLORIDA
JORGE L. VILLAVICENCIO
R0012110
REGISTERED ARCHITECT

VILLA & ASSOCIATES INC.
ARCHITECTURE - PLANNING - INTERIOR DESIGN
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DATE: 10-20-2022	SCALE: AS SHOWN
PROJECT NO: WALL SECTION	
DRAWING NO : A-3.3	

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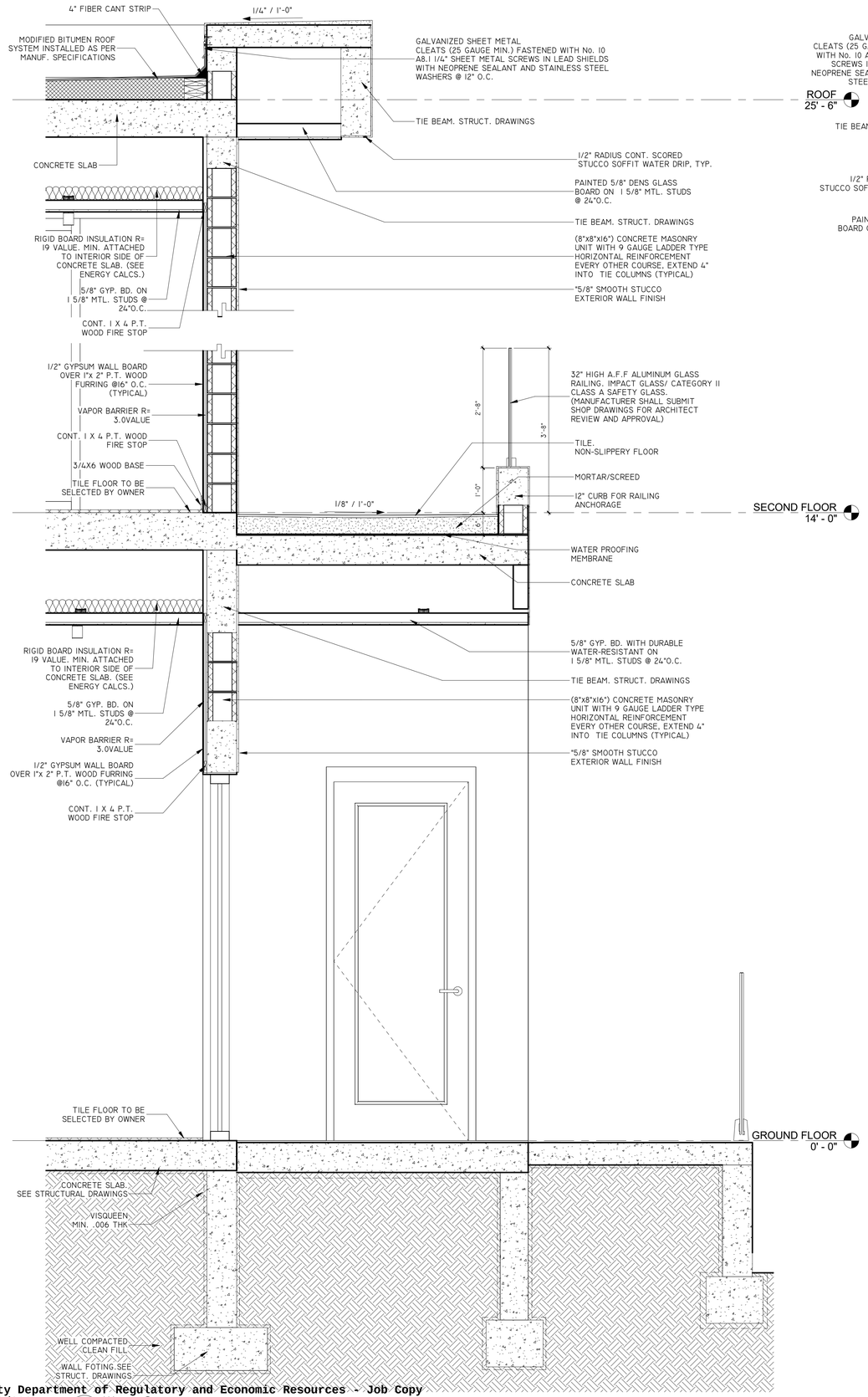
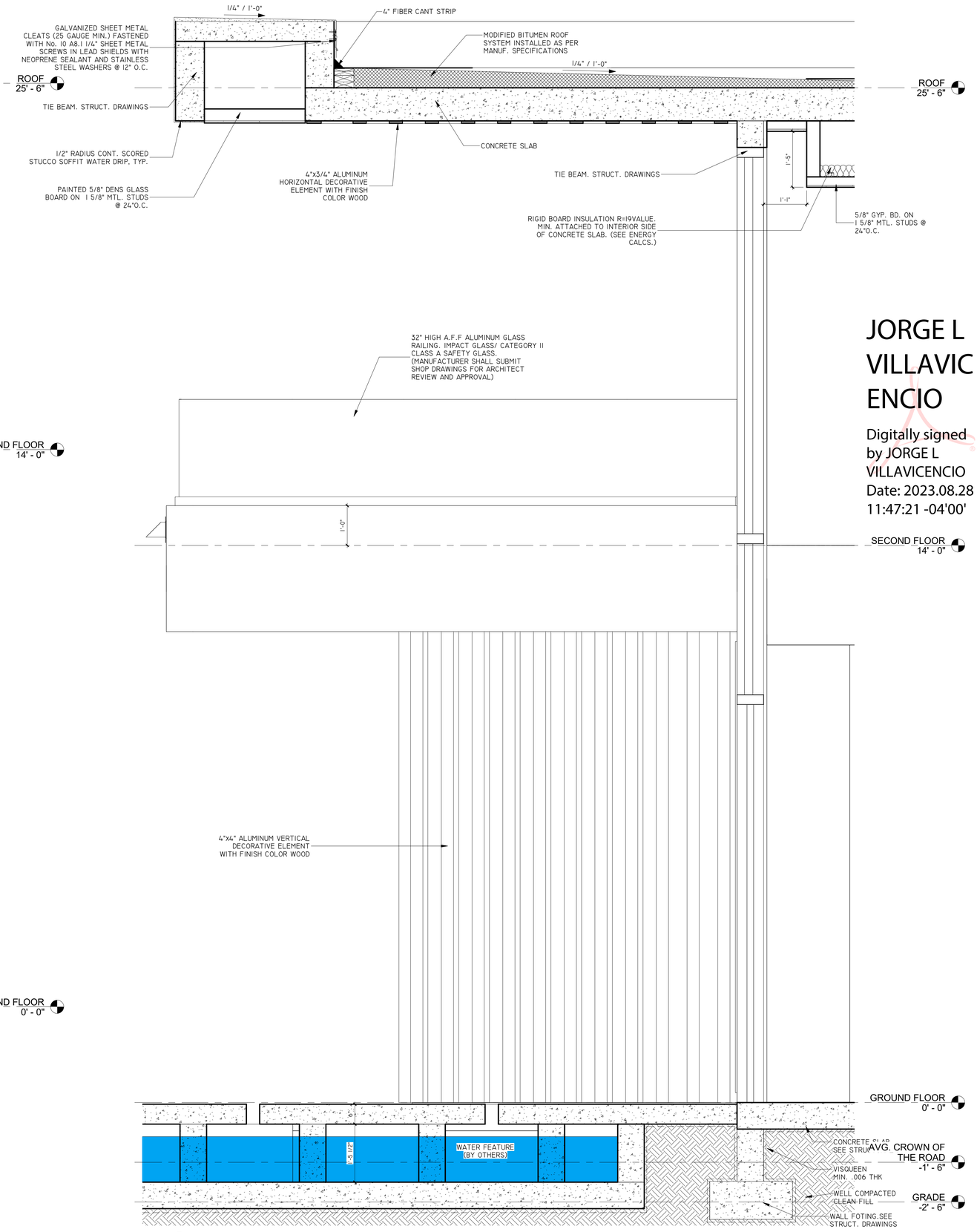
A-3.3 - WALL SECTION_V2.pdf



1 WALL SECTION
A-3.4 3/4" = 1'-0"



2 WALL SECTION C-C
A-3.4 3/4" = 1'-0"

Miami Dade County Department of Regulatory and Economic Resources - Job Copy
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A-3.4 - WALL SECTION.pdf

REVISIONS

Rev.	Date	Description

FIDANZA'S FAMILY HOUSE
PERMIT SET
11041 SW 77TH AVE, PINECREST, FL 33156

JORGE L VILLAVICENCIO

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Date: 2023.08.28 11:47:21 -04'00'

STATE OF FLORIDA
JORGE L VILLAVICENCIO
REGISTERED ARCHITECT
Architectural Seal
Registration License No. AR0003588
CERTIFICATE OF AUTHORIZATION No. AA0012110

VILLA & ASSOCIATES INC.
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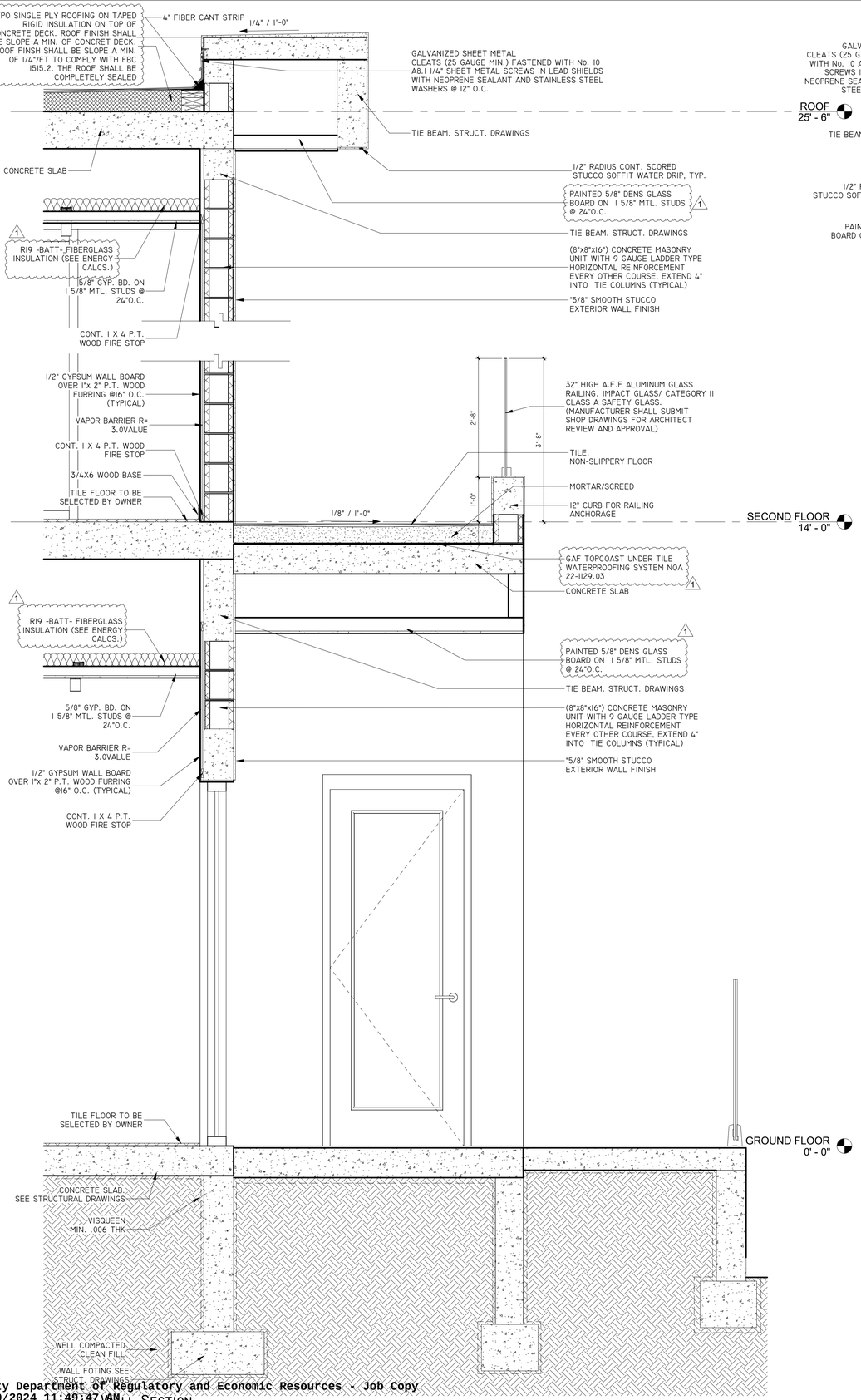
CONSULTANT: ARCHI-TEK STUDIO CORP.
TEL. 305-799-8016 - E-Mail magullar@architekstudio.com

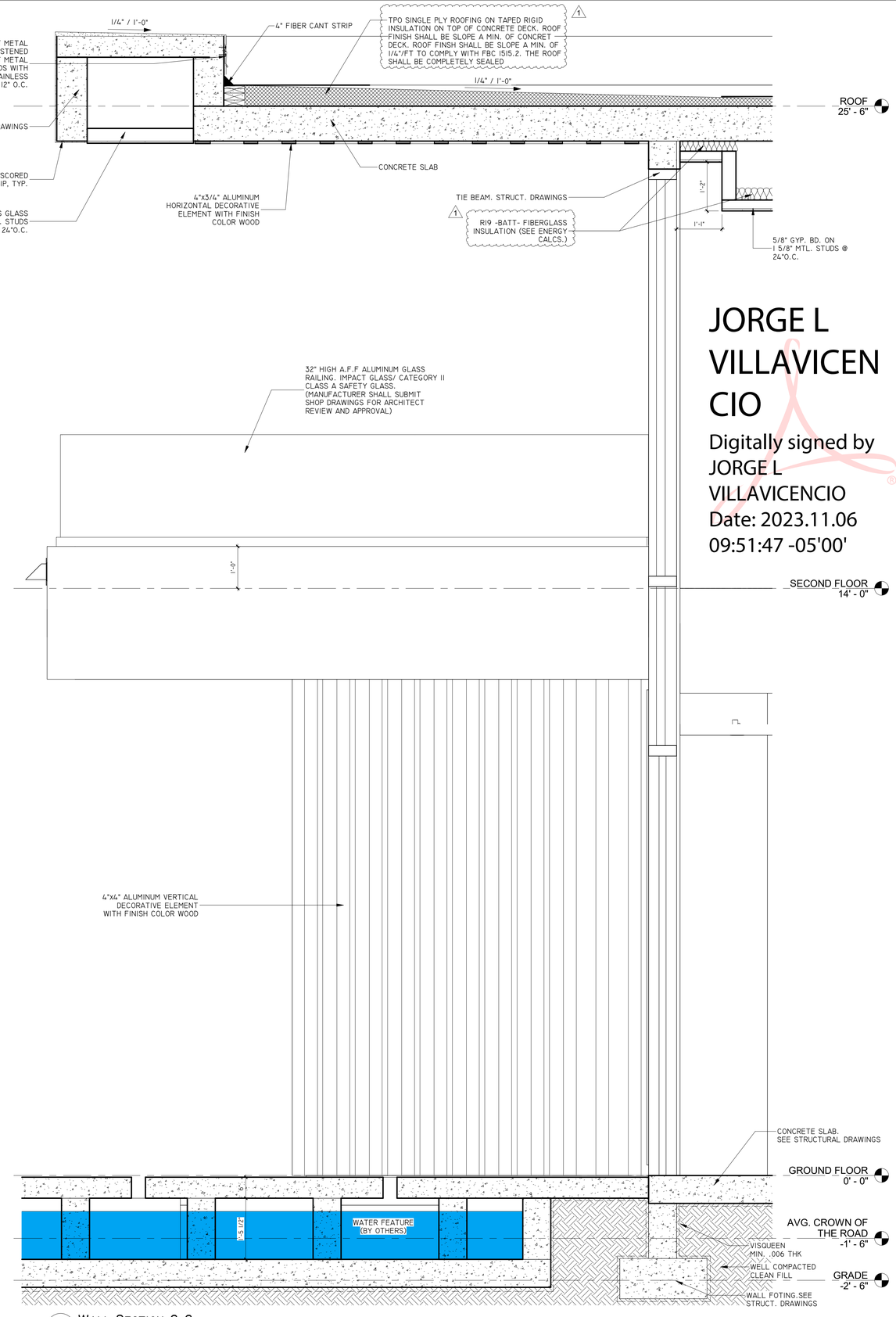
DATE:	SCALE:
10-20-2022	AS SHOWN

PROJECT NO: WALL SECTION

DRAWING NO : A-3.4



1 WALL SECTION
A-3.4 3/4" = 1'-0"



2 WALL SECTION C-C
A-3.4 3/4" = 1'-0"

Miami Dade County Department of Regulatory and Economic Resources - Job Copy
2023021890 - 7/9/2024 11:49:47 AM
A-3.4 - WALL SECTION_V2.pdf

REVISIONS

Rev.	Date	Description
1	10-20-22	Building comment
2		
3		

FIDANZA'S FAMILY HOUSE
PERMIT SET
11041 SW 77TH AVE, PINECREST, FL 33156

JORGE L VILLAVICENCIO
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Date: 2023.11.06 09:51:47 -05'00'

STATE OF FLORIDA
JORGE L VILLAVICENCIO
Architectural Seal
REGISTERED ARCHITECT
AR0012110
Certification Of Service
AA0003589

VILLA & ASSOCIATES INC.
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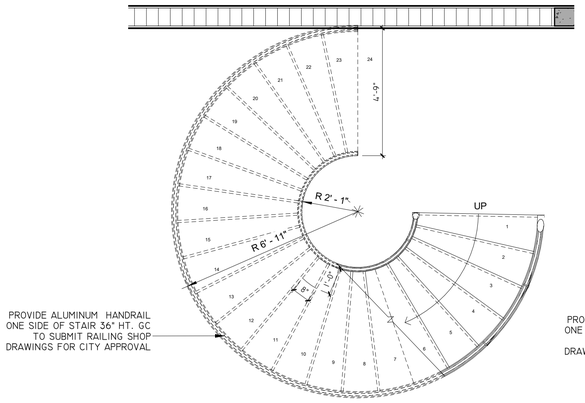
CONSULTANT : ARCHI-TEK STUDIO CORP.
TEL. 305-799-8016 - E-Mail magullar@architekstudio.com

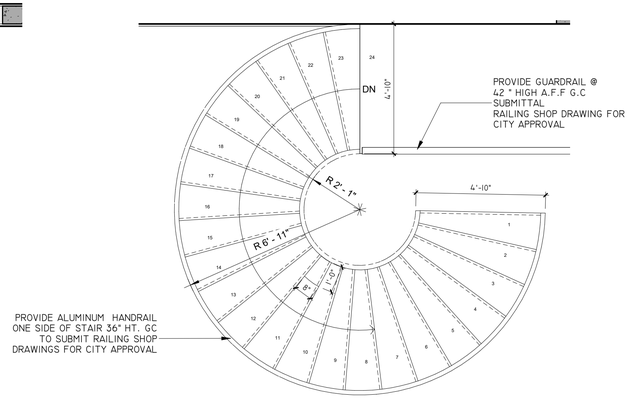
DATE:	SCALE:
10-20-2022	AS SHOWN

PROJECT NO: WALL SECTION

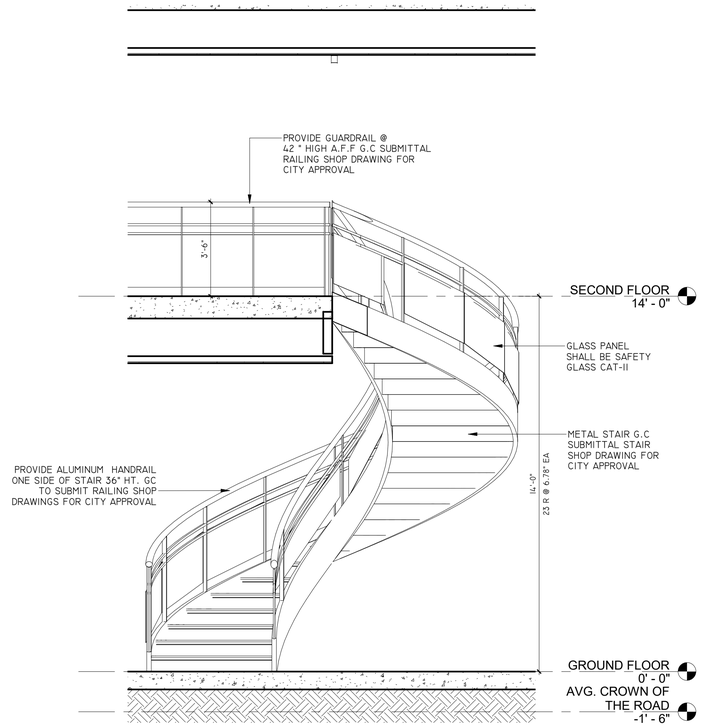
DRAWING NO : A-3.4



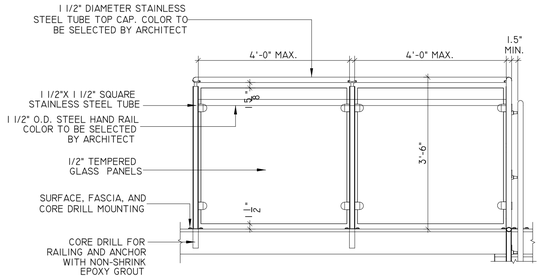
1 A-4.0 GROUND FLOOR - SPIRAL STAIR
3/8" = 1'-0"



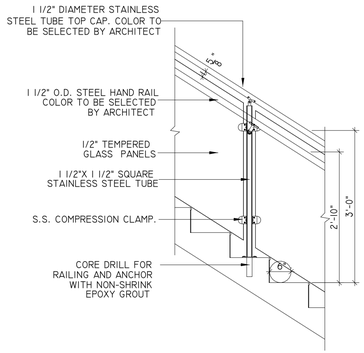
2 A-4.0 SECOND FLOOR - SPIRAL STAIR
3/8" = 1'-0"



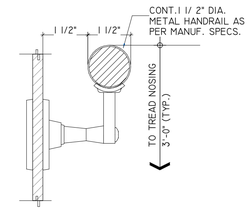
3 A-4.0 SECTION STAIR
3/8" = 1'-0"



4 A-4.0 TYPICAL GUARDRAIL DETAILS
1/4" = 1'-0"



5 A-4.0 TYPICAL HANDRAIL DETAILS
1/4" = 1'-0"



6 A-4.0 TYPE I CIRCULAR HARDRAIL
1/2" = 1'-0"

STAIR NOTES:

RAILING DESIGN AND CONSTRUCTION FBC. 2020.

NOTE:
STAIRS TO COMPLY WITH NFPA 101
SIGN AND SEAL CALCULATIONS AND SHOP DRAWINGS FOR STAIRS AND RAILING TO BE PROVIDED BY MANUFATUR.

1)RAILING SHOULD SUSTAIN A 50 PLF HORIZONTAL LOAD APPLIED IN ANY DIRECTION AT THE TOP OF THE RAILING.

2)HANDRAILS SHOULD RESIST A LOAD OF NOT LESS THAN 200 LB APPLIED IN ANY DIRECTION AND AT ANY POINT ON THE REAIL. --- F.B.C. 2020

3)GUARDRAILS SHOULD RESIST A LOAD OF NOT LESS THAN 200 LB APPLIED IN ANY DIRECTION AND AT ANY POINT ON THE REAIL. --- F.B.C. 2020

REVISIONS

Rev.	Date	Description

FIDANZA'S FAMILY HOUSE
NEW CONSTRUCTION
11041 SW 77TH AVE, PINECREST, FL 33156

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Architectural Seal
REGISTERED ARCHITECT
JORGE L VILLAVICENCIO
AR0012110

JORGE L VILLAVICENCIO

Digitally signed by JORGE L VILLAVICENCIO
Date: 2023.08.28 11:54:06 -04'00'

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ARCHITECTURE - PLANNING - INTERIOR DESIGN
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TEL. 305-613-0865 - E-Mail Jvillarchitect@gmail.com

CONSULTANT : ARCHI-TEK STUDIO CORP.
TEL. 305-799-8016 - E-Mail magullar@architekstudio.com

DATE:	SCALE:
10-20-2022	AS SHOWN

PROJECT NO: STAIR

DRAWING NO : A-4.0

Miami Dade County Department of Regulatory and Economic Resources - Job Copy
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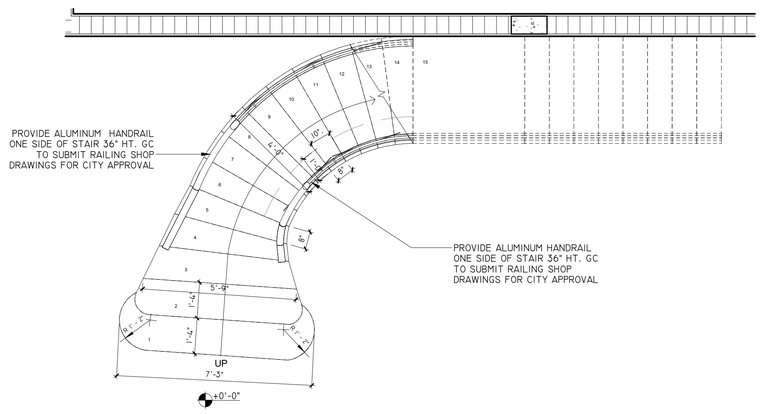
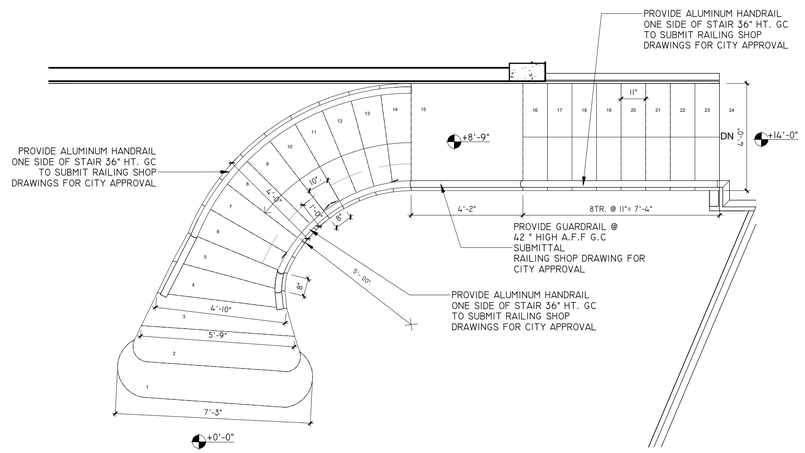
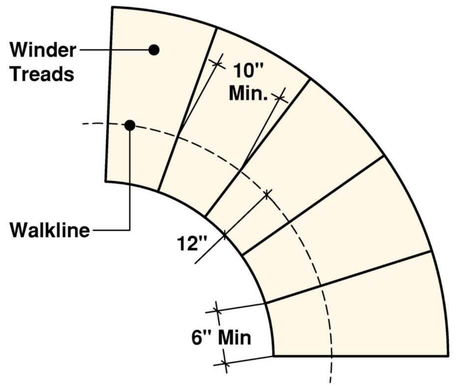
A-4.0 - STAIR.pdf



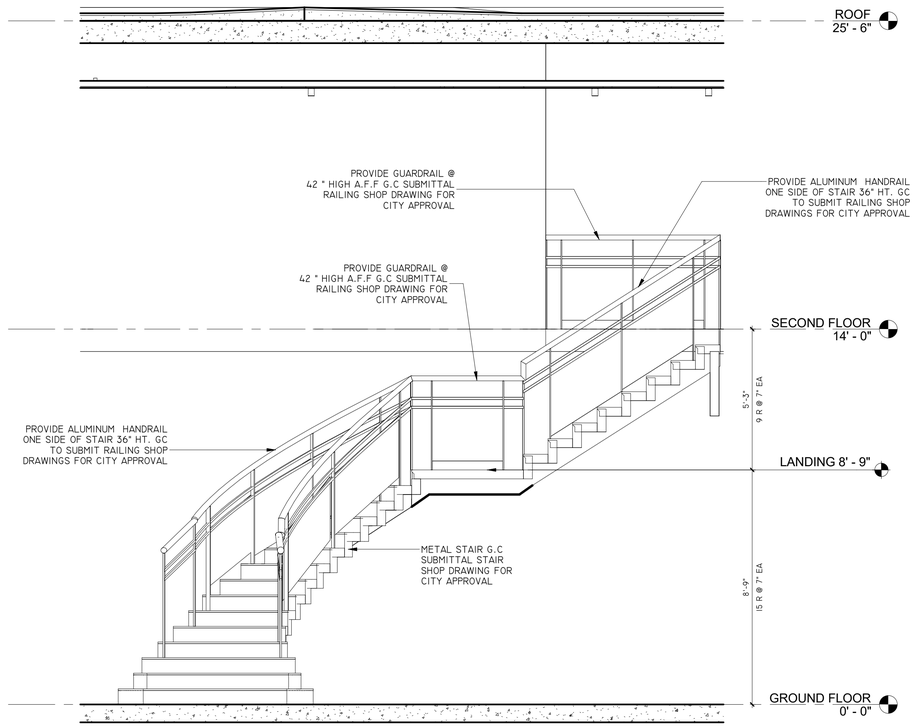
1 A-4.0 GROUND FLOOR - SPIRAL STAIR
3/8" = 1'-0"



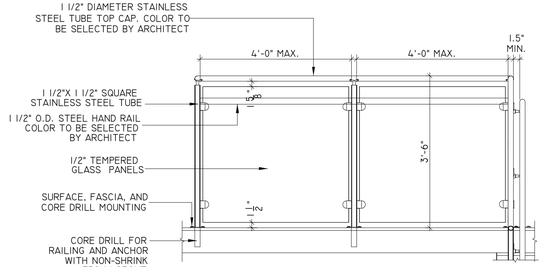
2 A-4.0 SECOND FLOOR - SPIRAL STAIR
3/8" = 1'-0"



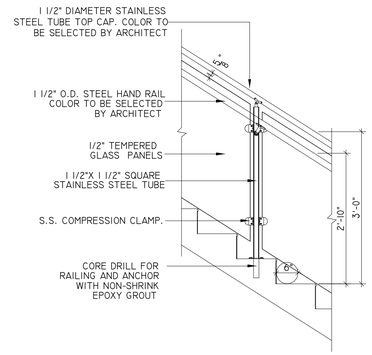
3 A-4.0 WINDERS USED FOR CIRCULAR STAIRWAY
1/4" = 1'-0"



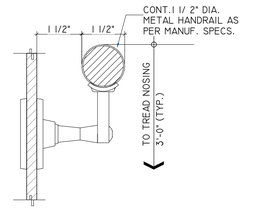
7 A-4.0 SECTION 3
3/8" = 1'-0"



4 A-4.0 TYPICAL GUARDRAIL DETAILS
1/4" = 1'-0"



5 A-4.0 TYPICAL HANDRAIL DETAILS
1/4" = 1'-0"



6 A-4.0 TYPE I CIRCULAR HARDRAIL
1/2" = 1'-0"

STAIR NOTES:

RAILING DESIGN AND CONSTRUCTION FBC. 2020.

NOTE:
STAIRS TO COMPLY WITH NFPA 101
SIGN AND SEAL CALCULATIONS AND SHOP DRAWINGS FOR STAIRS AND RAILING TO BE PROVIDED BY MANUFATUR.

1)RAILING SHOULD SUSTAIN A 50 PLF HORIZONTAL LOAD APPLIED IN ANY DIRECTION AT THE TOP OF THE RAILING.

2)HANDRAILS SHOULD RESIST A LOAD OF NOT LESS THAN 200 LB APPLIED IN ANY DIRECTION AND AT ANY POINT ON THE REAIL. --- F.B.C. 2020

3)GUARDRAILS SHOULD RESIST A LOAD OF NOT LESS THAN 200 LB APPLIED IN ANY DIRECTION AND AT ANY POINT ON THE REAIL. --- F.B.C. 2020

REVISIONS

Rev.	Date	Description
1	10-9-2023	Building comment

FIDANZA'S FAMILY HOUSE
NEW CONSTRUCTION
11041 SW 77TH AVE, PINECREST, FL 33156

Certificate of Competency
AA0003388
Architectural Seal

STATE OF FLORIDA
REGISTERED ARCHITECT
JORGE L VILLAVICENCIO
AR0012110

JORG E L VILLA VICE NCIO
Digitally signed by JORGE L VILLAVICENCIO
Date: 2023.11.06 09:54:43 -05'00'

VILLA & ASSOCIATES INC.
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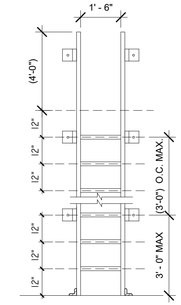
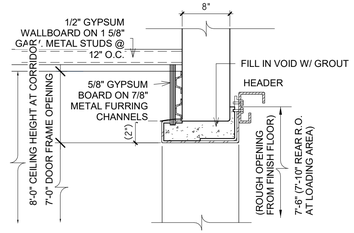
TEL. 305-799-8016 - E-Mail maguilar@architekstudio.com

DATE: 10-20-2022
SCALE: AS SHOWN
PROJECT NO: STAIR
DRAWING NO : A-4.0

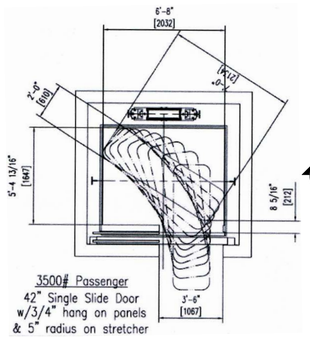
Miami Dade County Department of Regulatory and Economic Resources - Job Copy
2023021890 - 7/9/2024 11:49:47 AM
A-4.0 - STAIR_V2.pdf

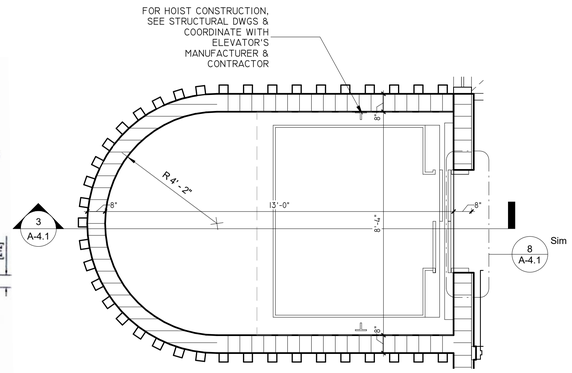


4 A-4.1 ELEV.DET A
3/8" = 1'-0"

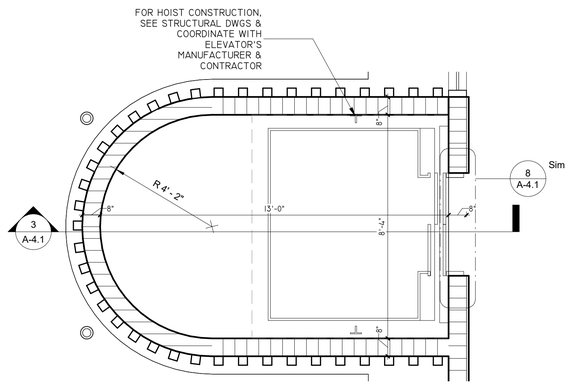


5 A-4.1 ELEV.DOOR HEADER DET
1" = 1'-0"

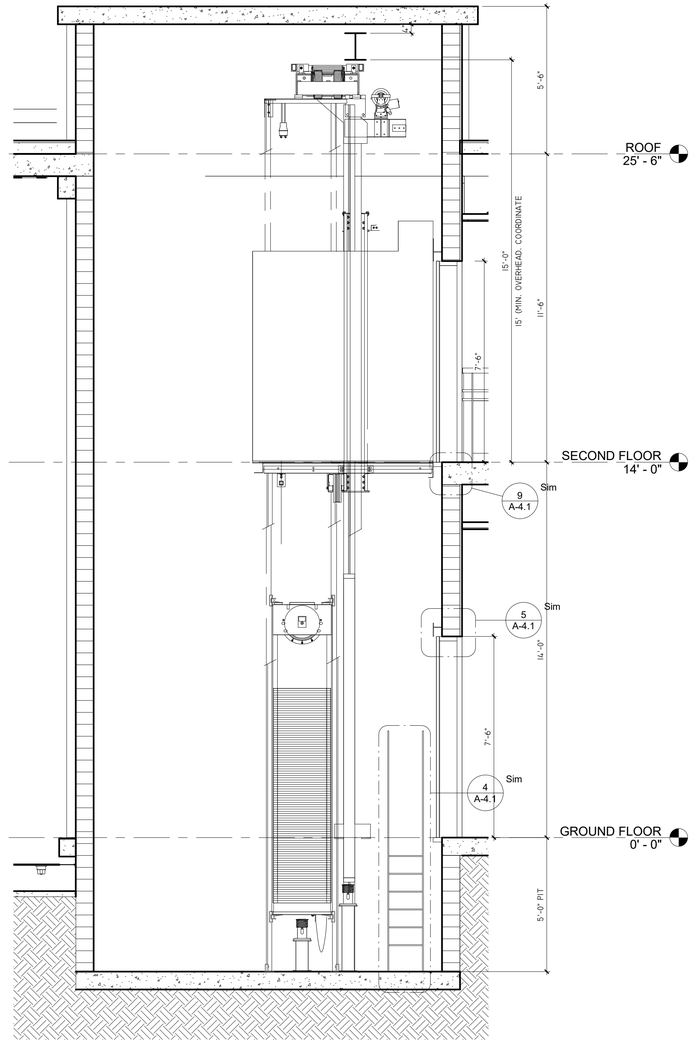




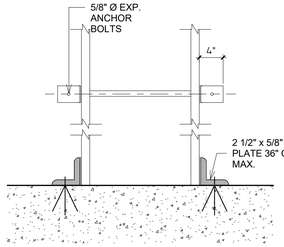
2 A-4.1 SECOND FLOOR - ELEVATOR
3/8" = 1'-0"



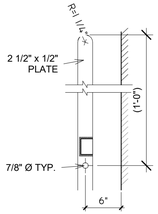
1 A-4.1 GROUND FLOOR - ELEVATOR
3/8" = 1'-0"



3 A-4.1 SECTION ELEVATOR
3/8" = 1'-0"



6 A-4.1 ELEV.DET C
1" = 1'-0"



7 A-4.1 ELEV.DET B
1" = 1'-0"

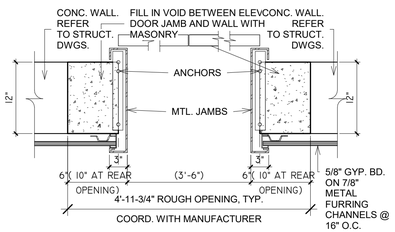
ELEVATOR SHAFT

ELEVATOR SHAFT- FBC 713.4 FIRE RESISTANCE RATING- 2 HOUR FIRE RATING.

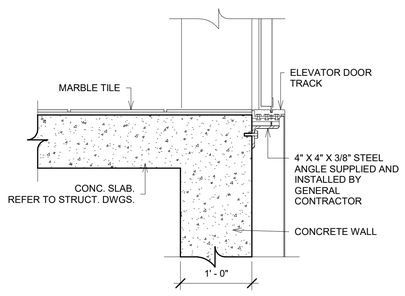
ELEVATOR LOBBY NOT REQUIRED WHERE THE BUILDING IS PROTECTED BY AN AUTOMATIC SPRINKLER SYSTEM INSTALLED IN ACCORDANCE TO CHAPTER 9 FBC.

ACCESSIBILITY MIN. DIMS

INSIDE DIMENSIONS OF ELEVATOR CARS AND CLEAR WIDTH OF ELEVATOR DOORS SHALL COMPLY WITH 2017 FBC CHAPTER 30 ELEVATOR AND CONVEYING SYSTEMS 3002.4 ELEVATOR CAR TO ACCOMMODATE AMBULANCE STRETCHER. ANY BUILDING THAT IS MORE THAN THREE STORIES HIGH OR WHICH THE VERTICAL DISTANCE BETWEEN THE BOTTOM LANDING AND THE TOP TERMINAL LANDING EXCEEDS 25 FEET, MUST BE CONSTRUCTED TO CONTAIN AT LEAST ONE PASSENGER ELEVATOR THAT IS OPERATIONAL FOR BUILDING OCCUPANTS AND FIRE DEPARTMENT EMERGENCY ACCESS TO ALL FLOORS. THE ELEVATOR CAR SHALL BE OF SUCH A SIZE AND ARRANGEMENT TO ACCOMMODATE AN AMBULANCE STRETCHER 24" BY 76" WITH NOT LESS THAN 5 INCH RADIUS CORNER, IN THE HORIZONTAL, OPEN POSITION AND SHALL BE IDENTIFIED BY THE INTERNATIONAL SYMBOL FOR EMERGENCY MEDICAL SERVICES. THE SYMBOL SHALL BE NOT LESS THAN 3 INCHES IN HEIGHT AND SHALL BE PLACED INSIDE ON BOTH SIDES THE HOIST WAY DOOR FRAME. DOOR LOCATION - SIDE (OFF CENTERED) DOOR CLEAR WIDTH - 36" INSIDE CAR SIDE TO SIDE - 80" MIN INSIDE CAR, BACK TO FRONT RETURN - 64" MIN INSIDE CAR, BACK WALL TO INSIDE FACE OF DOOR - 67"



8 A-4.1 ELEV.DOOR JAMB DET.
1" = 1'-0"



9 A-4.1 ELEV.DOOR SILL DET.
1" = 1'-0"

FIRE FIGHTERS' EMERGENCY ELEVATOR OPERATION

NFPA 101 - 7.2.13.9 ELEVATOR OPERATION.
ELEVATORS SHALL BE PROVIDED WITH FIRE FIGHTERS' EMERGENCY OPERATIONS IN ACCORDANCE WITH ASME A17.1/ CSA B44, SAFETY CODE FOR ELEVATORS AND ESCALATORS

GEARED ELEVATOR:	
QUANTITY & TYPE:	ONE (1) GEARED TRACTION ELEVATOR.
CAPACITY & SPEED (2,500 Lbs.):	RATED SPEED OF 150 FPM.
LANDINGS/RISE:	(1, 2). TRAVEL DISTANCE = 13'-0".
POWER SUPPLY:	208 VOLTS, 3 PHASE, 60 HERTZ.
OPERATION:	ELECTRONIC MICROPROCCESOR CONTROL AC DRIVE.
MOTION CONTROL:	VARIABLE VOLTAGE VARIABLE FRECUENCY (VVVF) AC. DRIVE.
MACHINE ROOM:	MACHINELESS.
CLEAR CAR INSIDE:	6'-8" WIDE*, 5'-5" FRONT TO BACK, 7'-4" CAB SHELL HEIGHT.
CAR FRONT FINISH:	CAR FRONT AND REAR: SATIN STAINLESS STEEL.
CAR ENCLOSURE:	SATIN STAINLESS STEEL CAR FRONT AND DOOR, ALUMINUM THRESHOLD. MANUFACTURER'S STANDARD VERTICAL PLASTIC LAMINATE WALL PANEL- SATIN STAINLESS STEEL HANDRAIL-FLAT BAR TYPE (1/2" THICK x 1-1/2" WIDE)- LEXAN SUSPENDED CEILING- THREE EQUAL PANELS- WITH FLUORESCENT LIGHTING ABOVE, ALUMINUM THRESHOLD. (FINISH CAB FLOORING BY OTHERS).

NOTES :

1. ELEVATOR TO COMPLY WITH ANSI/ASME A17.1, FLORIDA INDUSTRIAL COMMISSION, SFBC & SHALL BE A.D.A. APPROVED.
2. FRONT WALL MUST NOT BE BUILT AFTER DOOR FRAMES ARE ERECTED BY ELEVATOR CONTRACTOR
3. ELEVATOR CONTRACTOR TO PROVIDE AN A.D.A. HANDS FREE PHONE
4. ELEVATOR SHALL BE STRETCHER ACCESSIBLE
5. A PERMANENT SIGN SHALL BE INSTALLED INMEDIATELY ABOVE EACH HALL. PUSH BUTTON STATION ON EACH FLOOR READING "IN FIRE EMERGENCY DO NOT USE ELEVATORS, USE THE STAIRS". THIS SIGN SHALL BE LETTERS NOT LESS THAN 1/2' HIGH.

G.C. TO PROVIDE :

1. A PLUMB & PROPERTY VENTILATED HOIST.
2. ADEQUATE SUPPORT FOR JACK, GUIDE RAIL, BRACKETS & BUFFERS.
3. PIT LIGHTS, SWITCH & ELECTRICAL OUTLET.
4. LIGHTING AND ACCESSORY POWER SUPPLY.
5. SMOKE DETECTORS

SEE MANUFACTURER'S SPECIFICATIONS FOR ADDITIONAL INFORMATION

ELEVATOR SHOWN ON PLANS IS THYSSENKRUP'S SYNERGY 85. ELEVATOR'S HOISTWAY COULD BE USED WITH A SIMILAR ELEVATOR AS LONG AS IT IS APPROVED BY ELEVATOR'S MANUFACTURERE. G.C. TO VERIFY ALL ROUGH OPENING DIMENSIONS WITH ELEVATOR MANUFACTURER PRIOR TO START OF CONSTRUCTION

REVISIONS

Rev.	Date	Description

FIDANZA'S FAMILY HOUSE
NEW CONSTRUCTION
11041 SW 77TH AVE, PINECREST, FL 33156

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STATE OF FLORIDA
JORGE L. VILLAVICENCIO
LICENSE
AR0012110
REGISTERED ARCHITECT

JORGE L VILLAVICENCIO
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Date: 2023.08.28 11:53:47 -04'00'

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DATE: 10-20-2022
SCALE: AS SHOWN
PROJECT NO: ELEVATOR
DRAWING NO : A-4.1

Miami Dade County Department of Regulatory and Economic Resources - Job Copy
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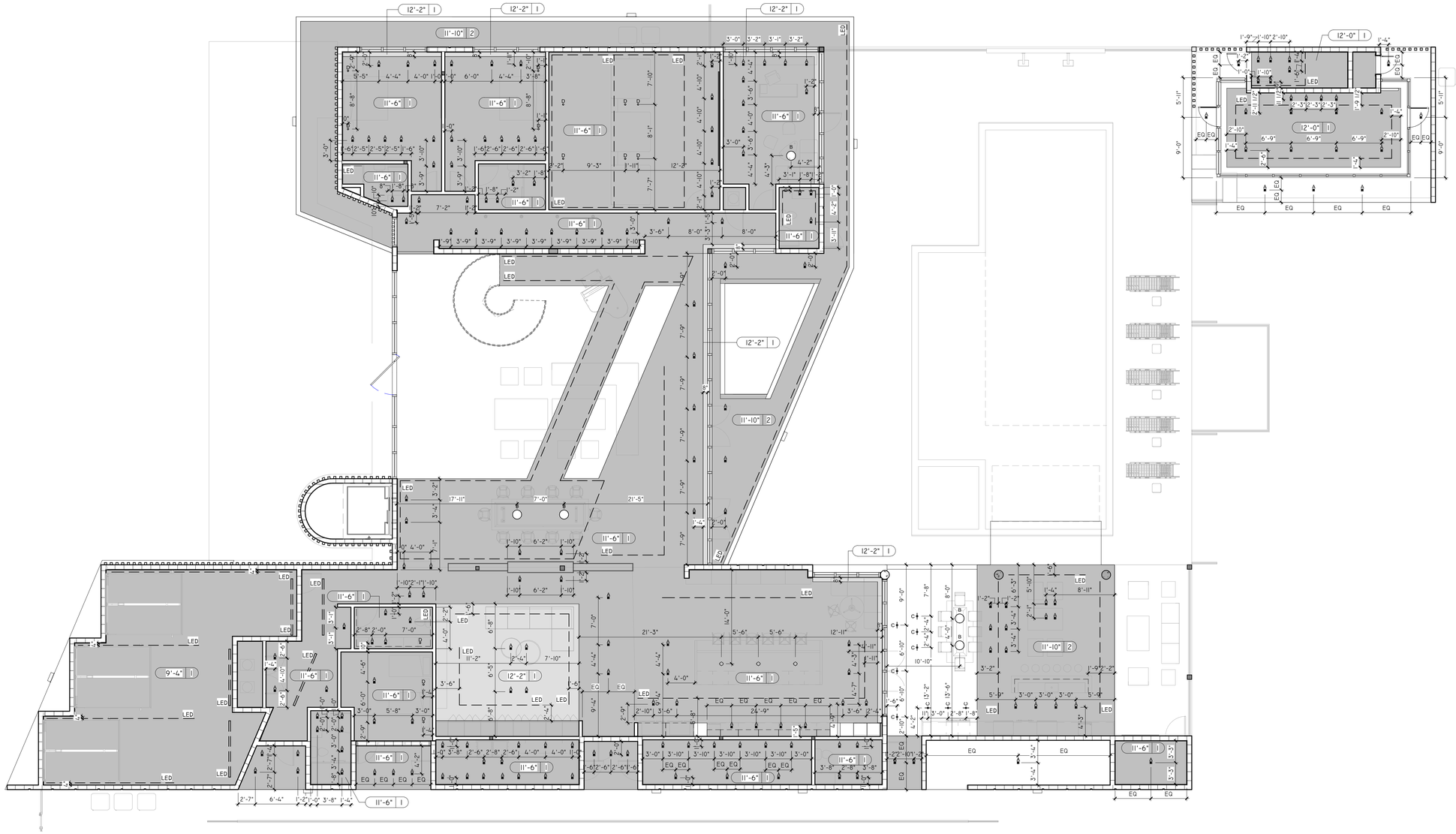
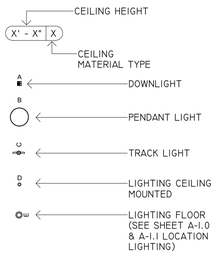
A-4.1 - ELEVATOR.pdf



1 A-5.0 R.F.C. GROUND FLOOR
1/8" = 1'-0"

CEILING MATERIAL LEGEND



SEE ELECTRICAL DRAWINGS FOR LOCATION OF ADDITIONAL WALL-MOUNTED LIGHTING

INTERIOR WALL - CEILING FINISH NOTE:

AS PER NFPA 30.3.3.2, INTERIOR WALL AND CEILING FINISH MATERIALS COMPLYING WITH 10.2.3 SHALL BE PERMITTED AS FOLLOWS:

(1) EXIT ENCLOSURES - CLASS A
(2) LOBBIES AND CORRIDORS - CLASS A OR CLASS B
(3) OTHER SPACES - CLASS A, CLASS B, OR CLASS C

NOTE:

METAL RUNNERS AT CEILING SOFFITS SHALL BE ATTACHED TO SLAB. ANCHOR WITH (2) .145" SHANK DIA. POWDER DRIVEN FASTENER x 3/4" (0.75") EMBED @ EACH STUD, TYPICAL.

DEPTH OF EMBEDMENT SHOULD BE LIMITED TO 0.75". PENETRATIONS ARE TO BE DRY DRILLED ONLY. PRIOR TO DRILLING OR USING POWDER ACTUATED FASTENERS, THE PROPOSED LOCATION OF THE FASTENER PENETRATION ON THE UNDERSIDE OR TOPSIDE OF THE SLAB IS TO BE SCANNED USING A HAND HELD METAL DETECTOR SUITABLE TO DETECT METAL IN CONCRETE UP TO DEPTH OF 2". IF METAL IS DETECTED AT THE PROPOSED PENETRATION RELOCATE THE PENETRATION TO AN AREA OF NOT DETECTED METAL

CEILING SCHEDULE GROUND FLOOR

Type Mark	Type Comments	Level	Height Offset From Level
1	PAINTED GYPSUM BOARD	GROUND FLOOR	9' - 4"
1	PAINTED GYPSUM BOARD	GROUND FLOOR	11' - 6"
1	PAINTED GYPSUM BOARD	GROUND FLOOR	12' - 0"
1	PAINTED GYPSUM BOARD	GROUND FLOOR	12' - 2"
2	PAINTED 5/8" DENS GLASS BOARD	GROUND FLOOR	11' - 10"

NOTE:

REFER TO INTERIOR DESIGN DRAWINGS FOR DETAILS AND REST OF INFORMATION.

JORGE L VILLAVICENCIO

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REVISIONS

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FIDANZA'S FAMILY HOUSE
NEW CONSTRUCTION
11041 SW 77TH AVE, PINECREST, FL 33156

STATE OF FLORIDA
JORGE L VILLAVICENCIO
Architectural Seal
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DATE: 10-20-2022
SCALE: AS SHOWN
PROJECT NO: R.F.C GROUND FLOOR PLAN
DRAWING NO : A-5.0

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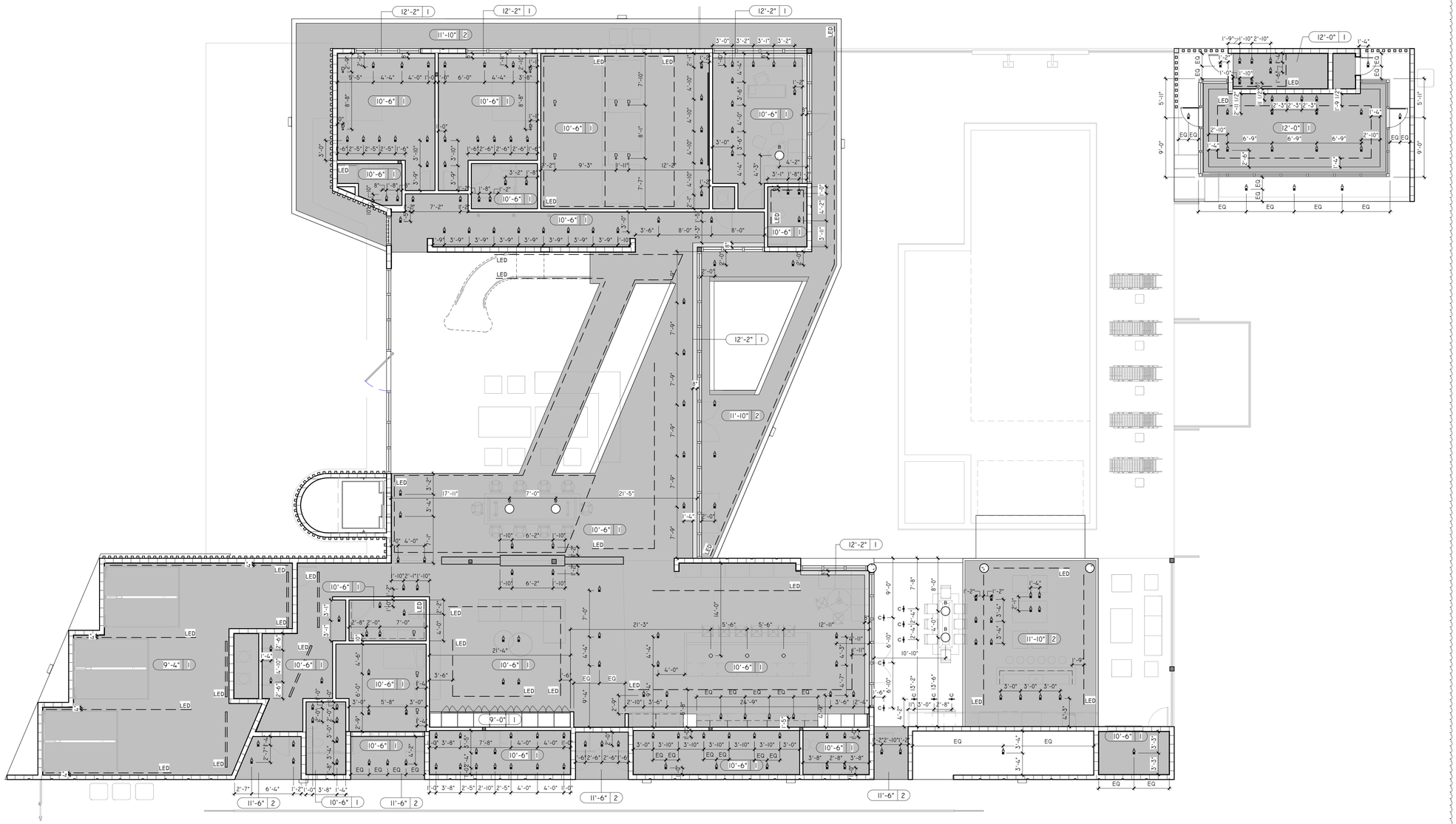

1 A-5.0 R.F.C. GROUND FLOOR

1/8" = 1'-0"

CEILING MATERIAL LEGEND
CEILING HEIGHT X' - X" | X CEILING MATERIAL TYPE A — DOWNLIGHT B — PENDANT LIGHT C — TRACK LIGHT D — LIGHTING CEILING MOUNTED LIGHTING FLOOR (SEE SHEET A-1.0 & A-1.1 LOCATION LIGHTING) SEE ELECTRICAL DRAWINGS FOR LOCATION OF ADDITIONAL WALL-MOUNTED LIGHTING

INTERIOR WALL - CEILING FINISH NOTE:
AS PER NFPA 30.3.3.2, INTERIOR WALL AND CEILING FINISH MATERIALS COMPLYING WITH I0.2.3 SHALL BE PERMITTED AS FOLLOWS: (1) EXIT ENCLOSURES - CLASS A (2) LOBBIES AND CORRIDORS - CLASS A OR CLASS B (3) OTHER SPACES - CLASS A, CLASS B, OR CLASS C

NOTE:

METAL RUNNERS AT CEILING SOFFITS SHALL BE ATTACHED TO SLAB. ANCHOR WITH (2) .145" SHANK DIA. POWDER DRIVEN FASTENER x 3/4" (0.75") EMBED @ EACH STUD, TYPICAL.

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CEILING SCHEDULE GROUND FLOOR

Type Mark	Type Comments	Level	Height Offset From Level
1	PAINTED GYPSUM BOARD	GROUND FLOOR	9' - 0"
1	PAINTED GYPSUM BOARD	GROUND FLOOR	9' - 4"
1	PAINTED GYPSUM BOARD	GROUND FLOOR	10' - 6"
1	PAINTED GYPSUM BOARD	GROUND FLOOR	12' - 0"
1	PAINTED GYPSUM BOARD	GROUND FLOOR	12' - 2"
1	PAINTED GYPSUM BOARD	GROUND FLOOR	12' - 10"
2	PAINTED 5/8" DENS GLASS BOARD	GROUND FLOOR	11' - 6"
2	PAINTED 5/8" DENS GLASS BOARD	GROUND FLOOR	11' - 10"

NOTE:

REFER TO INTERIOR DESIGN DRAWINGS FOR DETAILS AND REST OF INFORMATION.

REVISIONS

Rev.	Date	Description
1	10-9-2023	Building comment

FIDANZA'S FAMILY HOUSE
NEW CONSTRUCTION
11041 SW 77TH AVE, PINECREST, FL 33156

Contractor's License No. CGC1530035899 STATE OF FLORIDA VILLAVICENCIO JORGE LUIS REGISTERED ARCHITECT AR0012110 Architectural Seal

JORGE L VILLAVICENCIO

Digitally signed by JORGE L VILLAVICENCIO
Date: 2023.11.06 09:53:56 -05'00'

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DATE:	SCALE:
10-20-2022	AS SHOWN

PROJECT NO: R.F.C GROUND FLOOR PLAN

DRAWING NO : A-5.0

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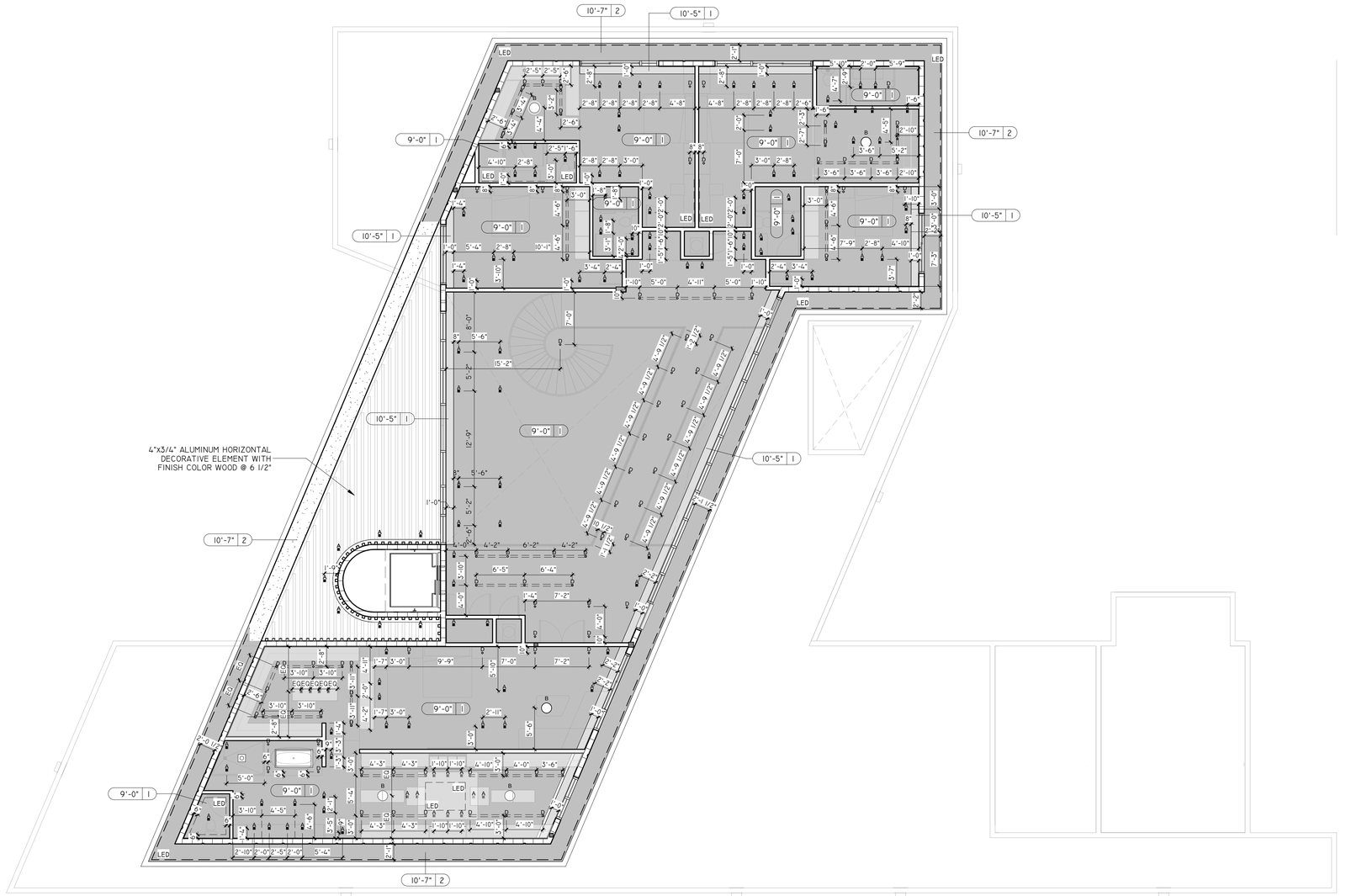
A-5.0 - R.F.C GROUND FLOOR PLAN_V2.pdf



1 A-5.1 R.F. F. SECOND FLOOR
1/8" = 1'-0"

CEILING MATERIAL LEGEND

- X' - X" | X — CEILING HEIGHT; CEILING MATERIAL TYPE
- A — DOWNLIGHT
- B — PENDANT LIGHT
- C — TRACK LIGHT
- D — LIGHTING CEILING MOUNTED
- E — LIGHTING FLOOR (SEE SHEET A-1.0 & A-1.1 LOCATION LIGHTING)

SEE ELECTRICAL DRAWINGS FOR LOCATION OF ADDITIONAL WALL-MOUNTED LIGHTING

INTERIOR WALL - CEILING FINISH NOTE:

AS PER NFPA 30.3.3.2, INTERIOR WALL AND CEILING FINISH MATERIALS COMPLYING WITH 10.2.3 SHALL BE PERMITTED AS FOLLOWS:

(1) EXIT ENCLOSURES - CLASS A
(2) LOBBIES AND CORRIDORS - CLASS A OR CLASS B
(3) OTHER SPACES - CLASS A, CLASS B, OR CLASS C

NOTE:

METAL RUNNERS AT CEILING SOFFITS SHALL BE ATTACHED TO SLAB. ANCHOR WITH (2) .145" SHANK DIA. POWDER DRIVEN FASTENER x 3/4" (0.75") EMBED @ EACH STUD, TYPICAL.

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CEILING SCHEDULE 2ND FLOOR

Type Mark	Type Comments	Level	Height Offset From Level
1	PAINTED GYPSUM BOARD	SECOND FLOOR	9' - 0"
1	PAINTED GYPSUM BOARD	SECOND FLOOR	10' - 4 7/8"
2	PAINTED 5/8" DENS GLASS BOARD	SECOND FLOOR	10' - 7 3/8"

NOTE:

REFER TO INTERIOR DESIGN DRAWINGS FOR DETAILS AND REST OF INFORMATION.

JORGE L VILLAVICENCIO

Digitally signed by JORGE L VILLAVICENCIO
Date: 2023.08.28 11:50:35 -04'00'

REVISIONS

Rev.	Date	Description

FIDANZA'S FAMILY HOUSE
NEW CONSTRUCTION
11041 SW 77TH AVE, PINECREST, FL 33156

STATE OF FLORIDA
Architectural Seal
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DATE: 10-20-2022
SCALE: AS SHOWN
PROJECT NO: R.F.C SECOND FLOOR PLAN
DRAWING NO : A-5.1

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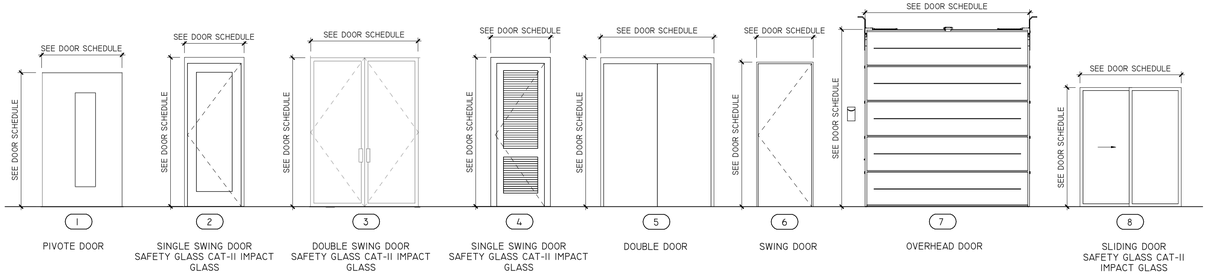


Door Schedule									
Type Mark	size			Type Door	Finish	Frame Material	Color	Comments	MARK
	Width	Height	Thickness						
101	6' - 0"	10' - 0"	0' - 2"	PIVOT DOOR	Painted*	WOOD	Selected by owner	Impact Resistant	1
102	6' - 0"	8' - 4"	0' - 2"	DOUBLE SWING DOOR	Painted*	ALUM.	Selected by owner	CAT II, Safety. GL, Impact Resistant	3
103	3' - 0"	8' - 0"	0' - 1 3/4"	SWING DOOR	Painted*	ALUM.	Selected by owner	CAT II, Safety. GL, Impact Resistant	2
104	3' - 0"	8' - 4"	0' - 1 3/4"	SWING DOOR	Painted*	ALUM.	Selected by owner	CAT II, Safety. GL, Impact Resistant	2
105	3' - 0"	8' - 0"	0' - 1 3/8"	SWING DOOR	Painted*	WOOD	Selected by owner		6
106	2' - 8"	8' - 0"	0' - 1 3/8"	SWING DOOR	Painted*	METAL	Selected by owner	Louver	4
107	5' - 8"	6' - 8"	0' - 1 3/4"	DOUBLE SWING DOOR	Painted*	WOOD	Selected by owner		5
108	6' - 0"	8' - 0"	0' - 1 3/4"	DOUBLE SWING DOOR	Painted*	WOOD	Selected by owner		5
109	3' - 0"	8' - 0"	0' - 1 3/4"	SWING DOOR	Painted*	ALUM.	Selected by owner	CAT II, Safety. GL, Impact Resistant	2
110	9' - 0"	8' - 0"	0' - 1 3/4"	GARAGE DOOR	Painted*	METAL	Selected by owner		7
111	3' - 0"	8' - 0"	0' - 1 3/8"	GARAGE DOOR	Painted*	METAL	Selected by owner	20 min fire-rated	6
112	2' - 8"	8' - 0"	0' - 1 3/8"	SWING DOOR	Painted*	METAL	Selected by owner	Louver	4
113	8' - 0"	8' - 4"	0' - 2"	SLIDING DOOR	Painted*	ALUM.	Selected by owner	CAT II, Safety. GL, Impact Resistant	8

* EVERY CLOSET DOOR LATCH SHALL BE SUCH THAT CHILDREN CAN OPEN THE DOOR FROM INSIDE THE CLOSET. AS PER FBC.
* EVERY BATHROOM DOOR LOCK SHALL BE DESIGNED TO PERMIT THE OPENING OF THE LOCKED DOOR FROM THE OUTSIDE IN AN EMERGENCY. AS PER FBC.
* ALL HALLWAY DOORS TO BE NON-LOCKABLE (PRIMARY MEANS OF ESCAPE)

ALL EGRESS WINDOWS TO COMPLY W/ FBC EDITION 2020: AN OUTSIDE WINDOW OR DOOR OPERABLE FROM THE INSIDE WITHOUT THE USE OF TOOLS AND PROVIDING A CLEAR OPENING OF NOT LESS THAN 20" WIDE X 24" HIGH AND 5.7 SQ. FT. IN AREA. THE BOTTOM OF THE OPENING SHALL NOT BE MORE THAN 44" OFF THE FLOOR. THE MODE OF OPERATION MUST NOT REQUIRE THE USE OF A KEY, TOOL, SPECIAL KNOWLEDGE OR EFFORT TO MAKE AVAILABLE THE REQUIRED CLEAR OPENING, AND NO PART OF THE OPERATION MECHANISM SHALL BE PLACED HIGHER THAN 54" ABOVE THE FINISHED FLOOR.

ALL WOOD IN CONTACT WITH CONCRETE OR CMU TO BE PRESSURE-TREATED AS PER F.B.C. 2020.

ALL PRECAST ELEMENTS TO BE ATTACHED W/ 1/4" DIA. TAPCONS W/ 1 1/2" PENETRATION INTO CONC. @ 6" O.C. EA. WAY, IF PRECAST MEMBER IS LESS THAN OR EQUAL TO 8" IN WIDTH THAN PROVIDE ONLY ONE ROW OF TAPCONS STAGGERED TOP & BOTT.

AS PER F.B.C. 2020, COMBUSTIBLE INSULATION SHALL BE SEPARATED A MINIMUM OF 3" (76MM) FROM RECESSED LIGHTING FIXTURES, FAN MOTORS AND OTHER HEAT-PRODUCING DEVICES.

DOOR NOTES COMPONENTS OF MEANS OF ESCAPE

A. NO DOOR IN THE PATH OF MEANS OF ESCAPE SHALL BE LESS THAN 28" WIDE EXCEPT THAT BATHROOM DOORS MAY BE 24" WIDE UNLESS A LAGER DOOR OPENING IS REQUIRED TO SATISFY REQUIREMENTS OF THE FLORIDA BUILDING CODE.

B. EVERY CLOSET DOOR LATCH SHALL BE SUCH THAT CH.LDREN CAN OPEN THE DOOR FROM INSIDE THE CLOSET.

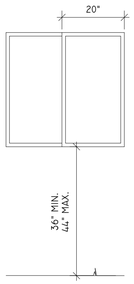
C. EVERY BATHROOM DOOR LOCK SHALL BE DESIGNED TO ALLOW THE OPENING OF THE LOCKED DOOR FROM THE OUTSIDE IN AN EMERGENCY.

D. DOORS MAY BE SWINGING OR SLIDING AND ARE EXEMPT FROM THE REQUIREMENTS OF THE FLORIDA BUILDING CODE.

E. NO DOOR IN ANY MEANS OF ESCAPE SHALL BE LOCKED AGAINST EGRESS WHEN THE BUILDING IS OCCUPIED. ALL LOCKING DEVICES WHICH IMPEDE OR PROH.BIT EGRESS OR WH.CH CANNOT BE EASILY DISENGAGED SHALL BE PROHIBITED.

VERIFY ALL WINDOW & DOOR ROUGH OPENINGS WITH WINDOW & DOOR MANUFACTURER.

SECOND MEANS OF SCAPE WINDOWS



EGRESS WINDOW AS SECOND MEANS OF ESCAPE TO HAVE AN OUTSIDE WINDOW OR DOOR OPERABLE FROM THE INSIDE WITHOUT THE USE OF TOOLS AND PROVIDING A CLEAR OPENING OF NOT LESS THAN 20 IN. IN WIDTH, 24 IN. IN HEIGHT AND 5.7 SQ.FT. IN AREA. AS PER SECTION R310.1.3 F.B.C 2020

MAXIMUM HEIGHT FROM FLOOR:

THE EMERGENCY ESCAPE AND RESCUE OPENING SHALL HAVE A SILL HEIGHT OF NOT MORE THAN 44 INCHES (1118 MM) ABOVE THE FLOOR AS PER SECTION R310 F.B.C 2020

F.F.P.C. (6TH EDITION)

EVERY SLEEPING ROOM AND LIVING AREA SHALL HAVE ACCESS TO A PRIMARY MEANS OF ESCAPE (AS PER 33.2.2.2-NEW CONSTRUCTION, OR 33.2.2.2-EXISTING CONSTRUCTION) - PRIMARY MEAS OF ESCAPE

(32.2.2.3-NEW OR 33.2.2.3-EXIST. CONSTR.)SECONDARY MEANS OF ESCAPE

EXTRACT:

(F.F.P.C. 32.2.2.3.1-NEW, OR 33.2.2.3.1 EXIST. CONSTR.)
SLEEPING ROOMS AND LIVING AREAS, OTHER THAN THOSE HAVING A DOOR LEADING DIRECTLY TO THE OUTSIDE OF THE BUILDING OR AN EXTERIOR STAIRWAY WITH ACCESS TO FINISH GROUND LEVEL, IN FACILITIES WITHOUT A SPRINKLER SYSTEM IN ACCORDANCE WITH THE APPLICABLE CODES, SHALL HAVE A SECOND MEANS OF ESCAPE CONSISTING OF ONE OF THE FOLLOWING:

3. OUTSIDE WINDOW OR DOOR OPERABLE FROM THE INSIDE WITHOUT THE USE OF TOOLS, KEYS, OR SPECIAL EFFORT, THAT PROVIDES A CLEAR OPENING OF NOT LESS THAN 5.7 SQUARE FEET (0.53 SQUARE METERS) WITH THE WIDTH NOT LESS THAN 20" INCHES (51 CENTIMETERS) AND THE HEIGHT NOT LESS THAN 24" INCHES (61 CENTIMETERS) AND THE BOTTOM OF THE OPENING NOT MORE THAN 44" INCHES (112 CENTIMETERS) ABOVE THE **FINISHED FLOOR. NO PART OF THE OPERATING MECHANISM SHALL BE MORE THAN 54"** INCHES (137 CENTIMETERS) ABOVE THE FINISHED FLOOR. SUCH MEANS OF ESCAPE SHALL BE ACCEPTABLE IF:

(A) THE WINDOW IS WITHIN 20' FEET (6.1 METERS) OF GRADE, OR:

(B) THE WINDOW IS DIRECTLY ACCESSIBLE TO FIRE DEPARTMENT RESCUE APPARATUS AS PROVIDED BY THE AUTHORITY HAVING JURISDICTION, OR:

(C) THE WINDOW OR DOOR OPENS DIRECTLY ONTO AN EXTERIOR BALCONY.

GENERAL DOOR & HARDWARE NOTES:

1. PROVIDE OPAQUE PRIVACY GLAZING AT BATHROOM LOCATIONS AND WHERE SELECTED BY OWNER.

2. ALL EXTERIOR DOORS, STOREFRONTS, FIXED GLASS AND WINDOW ASSEMBLIES SHALL BE IMPACT RESISTANT RATED, WITH CATEGORY II SAFETY TEMPERED GLASS, AND SHALL HAVE AN APPROVED N.O.A. IMPACT RESISTANT LABEL TO MEET F.B.C. 2014 (HVHZ) CRITERIA REQUIREMENTS. PROVIDE APPROVAL SUBMITTALS FOR ARCHITECT'S REVIEW.

3. G.C. TO VERIFY ALL OPENINGS PRIOR TO ORDERING AND/OR FABRICATION. FINAL IMPACT RESISTANT DOOR STYLE/TYPE TO BE AS SELECTED BY OWNER.

4. ALL DOOR STYLES, FINISH, COLOR, CASINGS, TRIMS WITHIN RESIDENCE AS SELECTED BY OWNER.

5. EVERY CLOSET DOOR LATCH SHALL BE SUCH THAT CHILDREN CAN OPEN THE DOOR FROM INSIDE THE CLOSET. (N.F.P.A. 101-21-2.4.3)

6. EVERY BATHROOM DOOR SHALL BE DESIGNED TO ALLOW OPENING FROM THE OUTSIDE DURING AN EMERGENCY WHEN LOCKED (N.F.P.A. 101-21-2,4,4)

7. NO DOUBLE CYLINDER KEY LOCKS OR KEY OPERATED CHAIN LOCKS SHALL BE INSTALLED ON THE FRONT ENTRANCE DOOR (N.F.P.A. 101-21-2.4.6)

8. ALL FINISH HARDWARE AS SELECTED BY OWNER.

9. COORDINATE FINAL OVERALL DOOR HEIGHTS AND DOOR THRESHOLD TRACKS WITH SLAB DEPRESSION. AND/OR FLOORING FINISHES (TYPICAL)

10. PROVIDE WEATHER STRIP AROUND EACH EXTERIOR DOOR, RESISTANT TO WATER PENETRATION.

11. PROVIDE SEAL STRIP AROUND DOOR.

12. PERSONNEL DOOR BETWEEN GARAGE AND RESIDENCE SHALL BE SOLID WOOD, SOLID OR HONEYCOMB CORE STEEL NOT LESS THAN 1-3/8 INCHES IN THICKNESS, OR A 20-MINUTE FIRE-RATED DOOR. IT SHALL HAVE AN APPROVED AUTOMATIC OR SELF-CLOSING DEVICE.

13. USE CAT. II SAFETY GLASS AT DOORS AND ADJACENT PANELS WITHIN 48", AND BATHROOM LOCATIONS.

GENERAL WINDOWS NOTES:

GENERAL GLAZING NOTES :

1. ALL SIZES SHOWN (UNLESS OTHERWISE NOTED) ARE ROUGH OPENINGS.
2. G.C. SHALL BE RESPONSIBLE TO FIELD VERIFY ALL MASONRY AND ROUGH OPENING OPENINGS PRIOR TO FABRICATION OF ANY STOREFRONT GLAZING SYSTEM.
3. ALL TRANSPARENT GLAZING SHALL BE CLEAR.
4. ALL TRANSPARENT GLAZING SHALL BE LAMINATED 9/16" MIN. GLASS, MEETING CODE REQUIRED WIND PRESSURES AND IMPACT RESISTANCE.
5. ALL SPANDREL GLAZING SHALL BE LAMINATED 9/16" MIN. GLASS, MEETING CODE REQUIRED WIND PRESSURES AND IMPACT RESISTANCE.
6. MANUFACTURERS SHALL SUBMIT ENGINEERED CALCULATIONS OF DESIGN LOADS W/ SHOP DRAWINGS PREPARED BY FLORIDA REGISTERED PROFESSIONAL ENGINEER OR VALID DADE COUNTY NOTICE OF ACCEPTANCE LETTERS FOR ARCHITECT'S REVIEW.
7. WHERE DISSIMILAR METALS ARE USED THEY SHALL BE COATED OR SEPARATED WITH APPROVED MATERIAL TO PREVENT ELECTROLYSIS.
8. ALL GLAZING W/ FRAMES SHALL BE TESTED FOR AIR AND WATER INFILTRATION.
9. PROVIDE ALUMINUM BREAK METAL AT ALL STEEL BEAMS & COLUMNS, TYPICAL. AT INTERIOR & EXTERIOR, FINISH OF BREAK METAL TO MATCH THAT OF STOREFRONT ASSEMBLY.
10. FINISH OF ALL GLAZING ASSEMBLIES TO BE CLEAR ANODIZED ALUMINUM FINISH.
11. ALL DOORS AND WINDOWS SYSTEM GLAZING SHALL BE CATEGORY II SAFETY TEMPERED GLASS PER F.B.C. SECTIONS 2406 & 2411.
12. IMPACT RESISTANT DOORS AND WINDOWS SHALL BE RESISTANT AND MEET DEFLECTION & IMPACT LOAD REQUIRED AS PER LATEST EDITION OF THE F.B.C.. DOORS AND WINDOWS SHALL HAVE PRODUCT APPROVAL OR N.O.A.s. SUBMIT SHOP DRAWINGS FOR ARCHITECTS REVIEW. SEPARATE PERMIT REQUIRED.
13. GLASS IN WINDOWS ADJACENT TO TUBS/SHOWERS AND GLASS IN SHOWER AND TUB COMPARTMENT SHALL BE CATEGORY II SAFETY GLAZING PER FBC. **R308.4.5.**
14. GLAZING WITHIN 60 INCHES HORIZONTALLY OF THE POOL WATER'S EDGE AND WHERE THE BOTTOM EDGE OF THE GLAZING IS LESS THAN 60 INCHES ABOVE WALKING SURFACE SHALL BE CATEGORY II SAFETY GLAZING PER FBC

NOTE:

REFER TO N.O.A.'S FOR ACTUAL SHOP DRAWING SPECIFICATIONS AND DETAILS FOR WINDOW AND DOOR ANCHORAGE AND CONSTRUCTION CONNECTIONS.

JORGE L VILLAVICENCIO
Digitally signed by JORGE L VILLAVICENCIO
Date: 2023.08.28 11:50:14 -04'00'

REVISIONS

Rev.	Date	Description

FIDANZA'S FAMILY HOUSE
NEW CONSTRUCTION
11041 SW 77TH AVE, PINECREST, FL 33156

Certificate of Authorization No. AA0003588
STATE OF FLORIDA
JORGE L. VILLAVICENCIO
Architectural Seal
LICENSE NO. AR0012110
REGISTERED ARCHITECT

VILLA & ASSOCIATES INC.
ARCHITECTURE - PLANNING - INTERIOR DESIGN
5801 SW 69 AVENUE - MIAMI, FLORIDA 33155
TEL. 305-613-0865 - E-Mail Jvillarchitect@gmail.com
CONSULTANT : ARCHI-TEK STUDIO CORP.
TEL. 305-799-8016 - E-Mail magullar@architekstudio.com

DATE: 10-20-2022
SCALE: AS SHOWN
PROJECT NO: SCHEDULES DOOR & FINISH
DRAWING NO : A-6.0

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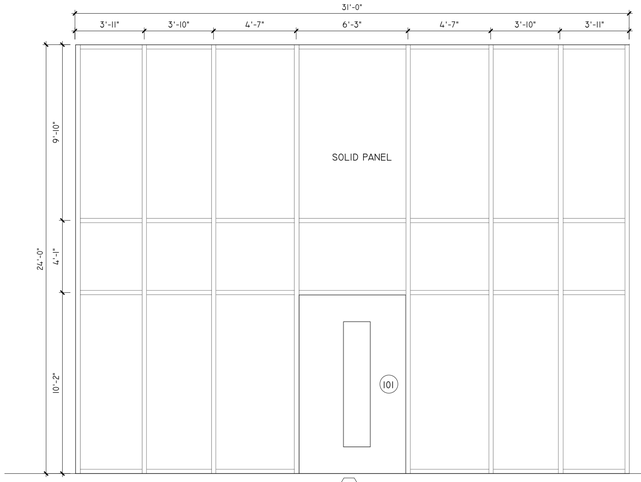

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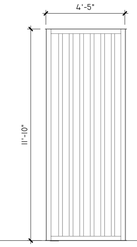

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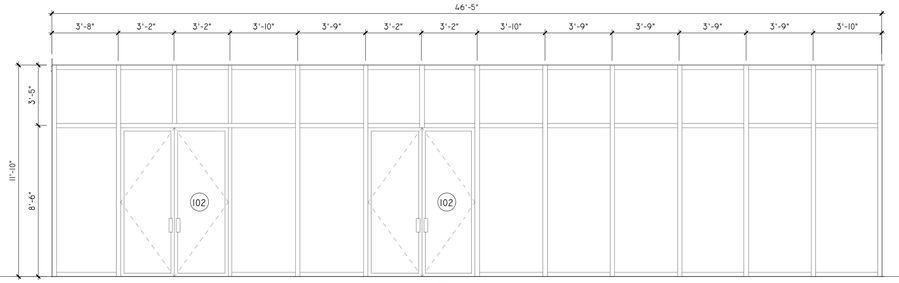

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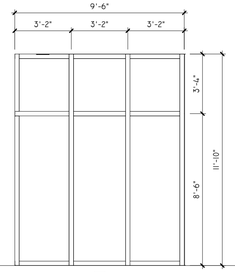

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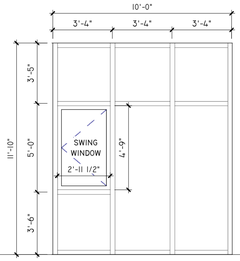

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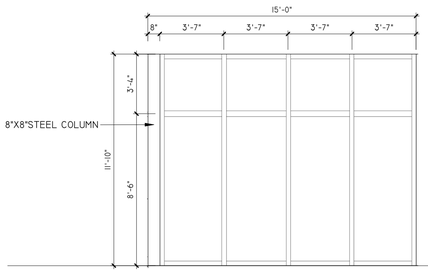

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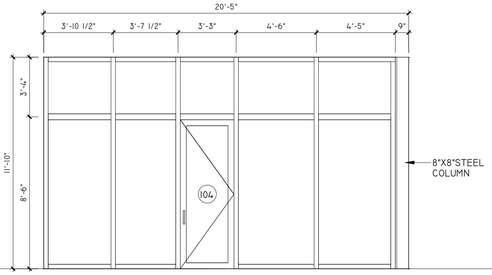

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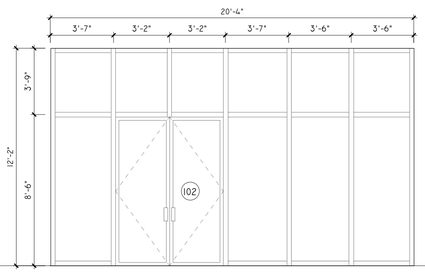

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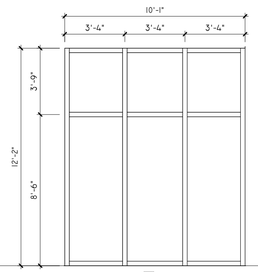

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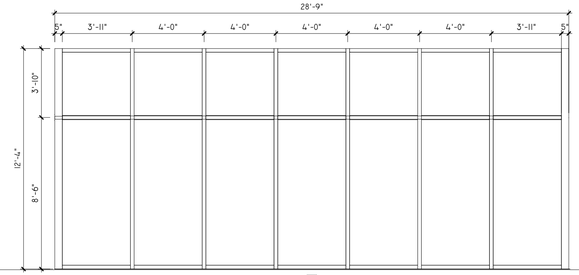

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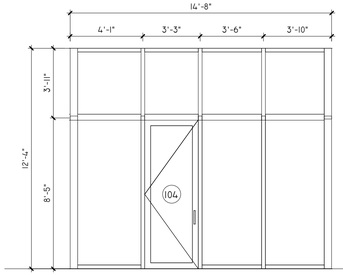

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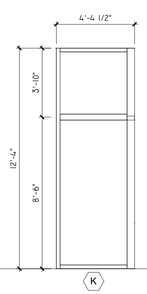

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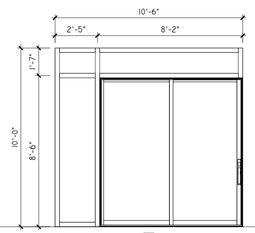

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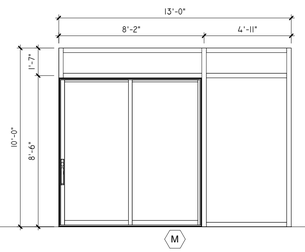

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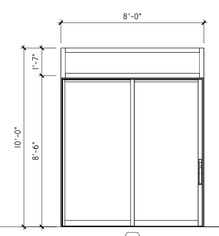

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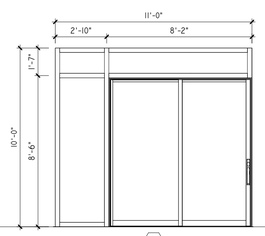

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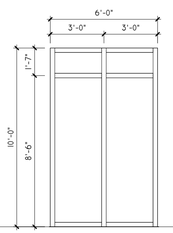

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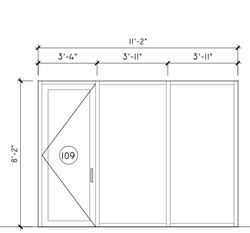

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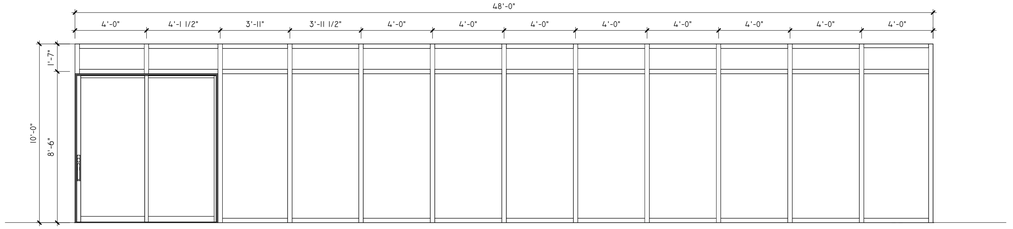

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SEE EXTERIOR ELEVATIONS

STOREFRONT SCHEDULE

TYPE MARK	WIDTH	HEIGHT	TYPE	MATERIAL	REMARKS
A	31' - 0"	24' - 0"	STOREFRONT GLASS	ALUMINUM & GLASS	CAT II, Safety. GL, Impact Resistant
B	4' - 5"	11' - 10"	STOREFRONT GLASS	ALUMINUM & GLASS	CAT II, Safety. GL, Impact Resistant
C	46' - 10"	11' - 10"	STOREFRONT GLASS	ALUMINUM & GLASS	CAT II, Safety. GL, Impact Resistant
C1	9' - 9"	11' - 10"	STOREFRONT GLASS	ALUMINUM & GLASS	CAT II, Safety. GL, Impact Resistant
D	10' - 0"	11' - 10"	STOREFRONT GLASS	ALUMINUM & GLASS	CAT II, Safety. GL, Impact Resistant, Egrees
E	14' - 8"	11' - 10"	STOREFRONT GLASS	ALUMINUM & GLASS	CAT II, Safety. GL, Impact Resistant
F	20' - 1"	11' - 10"	STOREFRONT GLASS	ALUMINUM & GLASS	CAT II, Safety. GL, Impact Resistant
G	20' - 4"	12' - 2"	STOREFRONT GLASS	ALUMINUM & GLASS	CAT II, Safety. GL, Impact Resistant
H	10' - 6"	12' - 2"	STOREFRONT GLASS	ALUMINUM & GLASS	CAT II, Safety. GL, Impact Resistant
I	28' - 4"	12' - 4"	STOREFRONT GLASS	ALUMINUM & GLASS	CAT II, Safety. GL, Impact Resistant
J	14' - 3"	12' - 4"	STOREFRONT GLASS	ALUMINUM & GLASS	CAT II, Safety. GL, Impact Resistant
K	4' - 7"	12' - 4"	STOREFRONT GLASS	ALUMINUM & GLASS	CAT II, Safety. GL, Impact Resistant
L	10' - 6"	10' - 0"	STOREFRONT GLASS	ALUMINUM & GLASS	CAT II, Safety. GL, Impact Resistant
O	11' - 0"	10' - 0"	STOREFRONT GLASS	ALUMINUM & GLASS	CAT II, Safety. GL, Impact Resistant
P	6' - 0"	10' - 0"	STOREFRONT GLASS	ALUMINUM & GLASS	CAT II, Safety. GL, Impact Resistant
Q	11' - 11"	8' - 2"	STOREFRONT GLASS	ALUMINUM & GLASS	CAT II, Safety. GL, Impact Resistant
R	48' - 0"	10' - 0"	STOREFRONT GLASS	ALUMINUM & GLASS	CAT II, Safety. GL, Impact Resistant

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JORGE L VILLAVICENCIO

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Date: 2023.08.28 11:49:56 -04'00'

REVISIONS		
Rev.	Date	Description

FIDANZA'S FAMILY HOUSE
NEW CONSTRUCTION
11041 SW 77TH AVE, PINECREST, FL 33156

Certificate of Authorization No. AA0003589
STATE OF FLORIDA
Architectural Seal
VILLAVICENCIO
AR0012110
REGISTERED ARCHITECT
JORGE L. VILLAVICENCIO

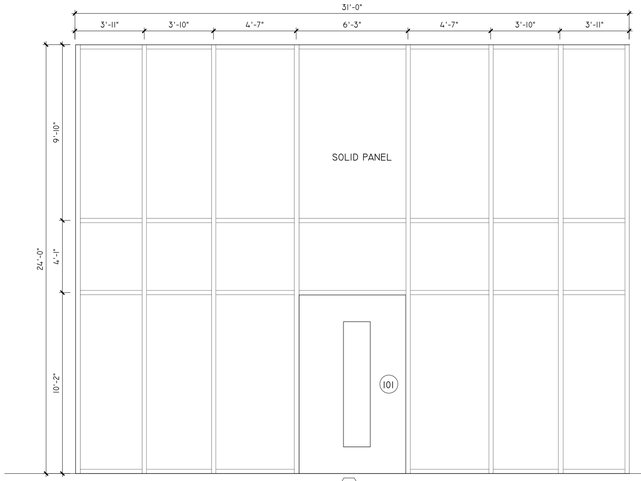
VILLA & ASSOCIATES INC.
ARCHITECTURE - PLANNING - INTERIOR DESIGN
5801 SW 69 AVENUE - MIAMI, FLORIDA 33155
TEL. 305-613-0865 - E-Mail Jvillarchitect@gmail.com

CONSULTANT : ARCHI-TEK STUDIO CORP.
TEL. 305-799-8016 - E-Mail magullar@architekstudio.com

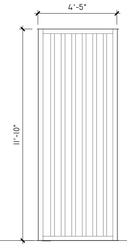
DATE:	SCALE:
10-20-2022	AS SHOWN

PROJECT NO: SCHEDULES STORE FRONT

DRAWING NO : A-6.1



A
IMPACT RESISTANT
FIXED GLASS WINDOW
SEE EXTERIOR ELEVATIONS



B
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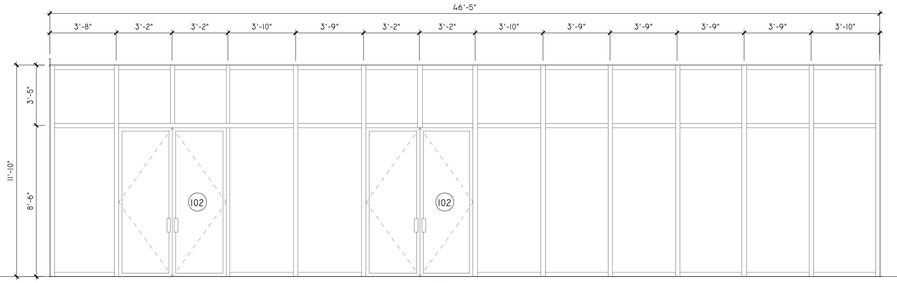
SEE EXTERIOR ELEVATIONS



C
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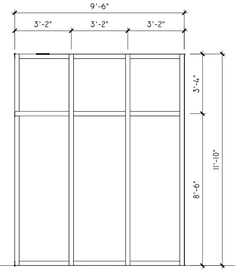
SEE EXTERIOR ELEVATIONS



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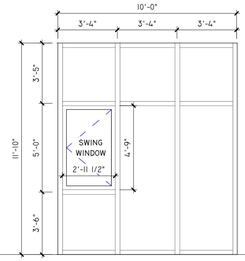

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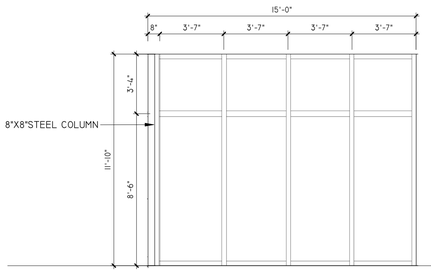
SEE EXTERIOR ELEVATIONS



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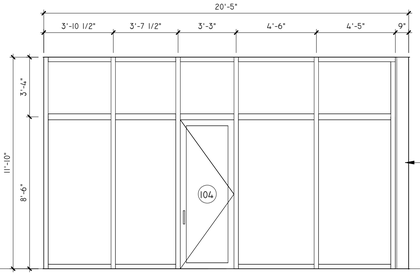
SEE EXTERIOR ELEVATIONS



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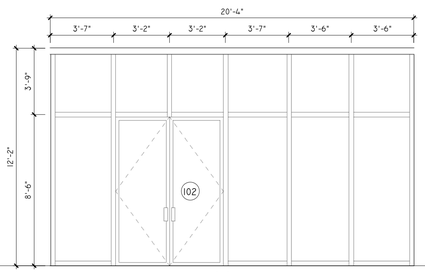

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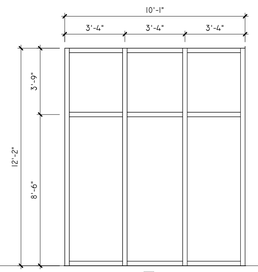
SEE EXTERIOR ELEVATIONS



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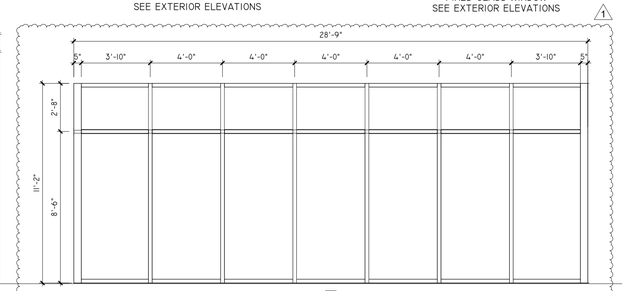
SEE EXTERIOR ELEVATIONS



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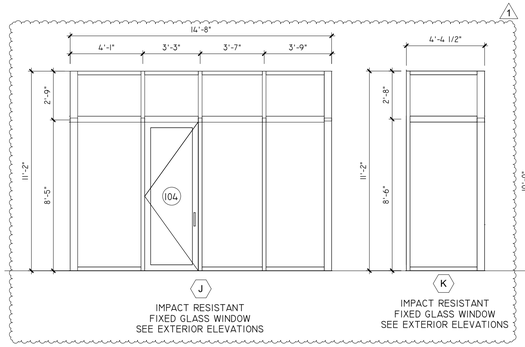
SEE EXTERIOR ELEVATIONS



J
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FIXED GLASS WINDOW
SEE EXTERIOR ELEVATIONS

K
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L
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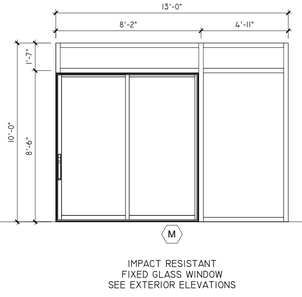
SEE EXTERIOR ELEVATIONS



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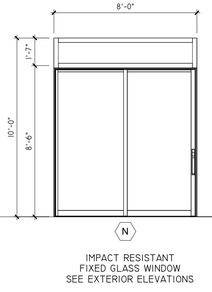
SEE EXTERIOR ELEVATIONS



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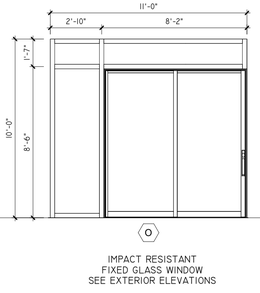

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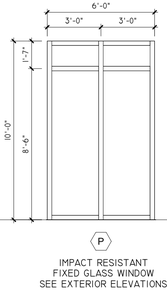
SEE EXTERIOR ELEVATIONS



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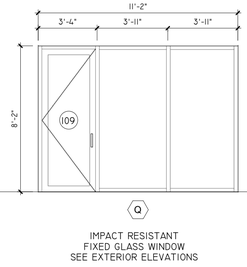
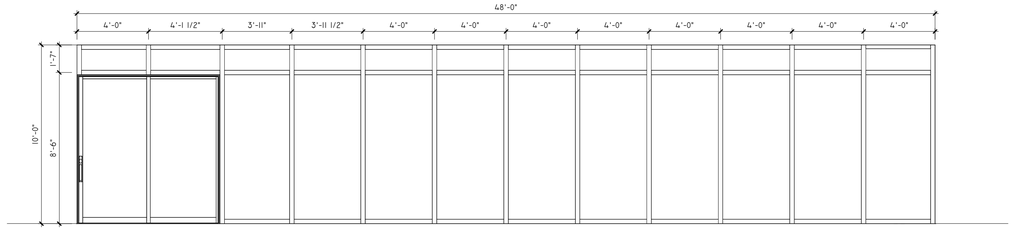
SEE EXTERIOR ELEVATIONS



Q
IMPACT RESISTANT
FIXED GLASS WINDOW
SEE EXTERIOR ELEVATIONS

STOREFRONT SCHEDULE

TYPE MARK	WIDTH	HEIGHT	TYPE	MATERIAL	REMARKS
A	31' - 0"	24' - 0"	STOREFRONT GLASS	ALUMINUM & GLASS	CAT II, Safety. GL, Impact Resistant
B	4' - 5"	11' - 10"	STOREFRONT GLASS	ALUMINUM & GLASS	CAT II, Safety. GL, Impact Resistant
C	46' - 10"	11' - 10"	STOREFRONT GLASS	ALUMINUM & GLASS	CAT II, Safety. GL, Impact Resistant
C1	9' - 9"	11' - 10"	STOREFRONT GLASS	ALUMINUM & GLASS	CAT II, Safety. GL, Impact Resistant
D	10' - 0"	11' - 10"	STOREFRONT GLASS	ALUMINUM & GLASS	CAT II, Safety. GL, Impact Resistant, Egrees
E	14' - 8"	11' - 10"	STOREFRONT GLASS	ALUMINUM & GLASS	CAT II, Safety. GL, Impact Resistant
F	20' - 1"	11' - 10"	STOREFRONT GLASS	ALUMINUM & GLASS	CAT II, Safety. GL, Impact Resistant
G	20' - 4"	12' - 2"	STOREFRONT GLASS	ALUMINUM & GLASS	CAT II, Safety. GL, Impact Resistant
H	10' - 6"	12' - 2"	STOREFRONT GLASS	ALUMINUM & GLASS	CAT II, Safety. GL, Impact Resistant
I	28' - 4"	11' - 2"	STOREFRONT GLASS	ALUMINUM & GLASS	CAT II, Safety. GL, Impact Resistant
J	14' - 3"	11' - 2"	STOREFRONT GLASS	ALUMINUM & GLASS	CAT II, Safety. GL, Impact Resistant
K	4' - 7"	11' - 2"	STOREFRONT GLASS	ALUMINUM & GLASS	CAT II, Safety. GL, Impact Resistant
L	10' - 6"	10' - 0"	STOREFRONT GLASS	ALUMINUM & GLASS	CAT II, Safety. GL, Impact Resistant
O	11' - 0"	10' - 0"	STOREFRONT GLASS	ALUMINUM & GLASS	CAT II, Safety. GL, Impact Resistant
P	6' - 0"	10' - 0"	STOREFRONT GLASS	ALUMINUM & GLASS	CAT II, Safety. GL, Impact Resistant
Q	11' - 11"	8' - 2"	STOREFRONT GLASS	ALUMINUM & GLASS	CAT II, Safety. GL, Impact Resistant
R	48' - 0"	10' - 0"	STOREFRONT GLASS	ALUMINUM & GLASS	CAT II, Safety. GL, Impact Resistant



R
IMPACT RESISTANT
FIXED GLASS WINDOW
SEE EXTERIOR ELEVATIONS

Miami Dade County Department of Regulatory and Economic Resources - Job Copy
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A-6.1 - SCHEDULES STORE FRONT_V2.pdf

JORGE L VILLAVICENCIO

Digitally signed by JORGE L VILLAVICENCIO
Date: 2023.11.06 09:52:44 -05'00'

REVISIONS

Rev.	Date	Description
1	10-9-2023	Building comment

FIDANZA'S FAMILY HOUSE
NEW CONSTRUCTION
11041 SW 77TH AVE, PINECREST, FL 33156

Certificate of Authorization No. AA0003589
STATE OF FLORIDA
JORGE L. VILLAVICENCIO
Architectural Seal
REGISTERED ARCHITECT
R0012110

VILLA & ASSOCIATES INC.
ARCHITECTURE - PLANNING - INTERIOR DESIGN
5801 SW 69 AVENUE - MIAMI, FLORIDA 33155
TEL. 305-613-0865 - E-Mail Jvillarchitect@gmail.com

CONSULTANT : ARCHI-TEK STUDIO CORP.
TEL. 305-799-8016 - E-Mail magullar@architekstudio.com

DATE: 10-20-2022
SCALE: AS SHOWN
PROJECT NO: SCHEDULES STORE FRONT
DRAWING NO : A-6.1

FINISH SCHEDULE						
Number	Name	Floor Finish	Wall Finish	Ceiling Finish	remarks	Level
1	LIVING & DINNING ROOM	Porcelain or Marble Tile	Painted Moisture resistant	Painted Moisture Gypsum Board.		GROUND FLOOR
2	FAMILY ROOM	Porcelain or Marble Tile	Painted Moisture resistant	Painted Moisture Gypsum Board.		GROUND FLOOR
3	KITCHEN	Porcelain or Marble Tile	Painted Moisture resistant	Painted Moisture Gypsum Board.		GROUND FLOOR
4	BEDROOM 1	Porcelain or Marble Tile	Painted Moisture resistant	Painted Moisture Gypsum Board.		GROUND FLOOR
5	BEDROOM 2	Porcelain or Marble Tile	Painted Moisture resistant	Painted Moisture Gypsum Board.		GROUND FLOOR
6	HOME THEATRE	Porcelain or Marble Tile or Carpet	Painted Moisture resistant	Painted Moisture Gypsum Board.		GROUND FLOOR
7	OFFICE	Porcelain or Marble Tile	Painted Moisture resistant	Painted Moisture Gypsum Board.		GROUND FLOOR
8	BATH #1	Porcelain or Marble Tile	Ceramic Tile & Painted Moisture resistant	Painted Moisture Gypsum Board.		GROUND FLOOR
9	BATH #2	Porcelain or Marble Tile	Ceramic Tile & Painted Moisture resistant	Painted Moisture Gypsum Board.		GROUND FLOOR
10	POWDER ROOM 1	Porcelain or Marble Tile	Ceramic Tile & Painted Moisture resistant	Painted Moisture Gypsum Board.		GROUND FLOOR
11	POWDER ROOM 2	Porcelain or Marble Tile	Ceramic Tile & Painted Moisture resistant	Painted Moisture Gypsum Board.		GROUND FLOOR
12	MAID'S BEDROOM	Porcelain or Marble Tile	Painted Moisture resistant	Painted Moisture Gypsum Board.		GROUND FLOOR
13	BATH #7	Porcelain or Marble Tile	Ceramic Tile & Painted Moisture resistant	Painted Moisture Gypsum Board.		GROUND FLOOR
14	STORAGE 1	Porcelain or Marble Tile	Painted Moisture resistant	Painted Moisture Gypsum Board.		GROUND FLOOR
15	POWDER ROOM 3	Porcelain or Marble Tile	Ceramic Tile & Painted Moisture resistant	Painted Moisture Gypsum Board.		GROUND FLOOR
16	STORAGE 2	Porcelain or Marble Tile	Painted Moisture resistant	Painted Moisture Gypsum Board.		GROUND FLOOR
17	A/C 1&2	Porcelain or Marble Tile	Painted Moisture resistant	Painted Moisture Gypsum Board.		GROUND FLOOR
18	A/C 4	Porcelain or Marble Tile	Painted Moisture resistant	Painted Moisture Gypsum Board.		GROUND FLOOR
19	LAUNDRY	Porcelain or Marble Tile	Painted Moisture resistant	Painted Moisture Gypsum Board.		GROUND FLOOR
20	GYM	Porcelain or Marble Tile	Painted Moisture resistant	Painted Moisture Gypsum Board.		GROUND FLOOR
22	A/C 6	Porcelain or Marble Tile	Painted Moisture resistant	Painted Moisture Gypsum Board.		GROUND FLOOR
24	CORRIDOR	Porcelain or Marble Tile	Painted Moisture resistant	Painted Moisture Gypsum Board.		GROUND FLOOR
25	BEDROOM #3	Porcelain or Marble Tile	Painted Moisture resistant	Painted Moisture Gypsum Board.		SECOND FLOOR
26	W.I.C #1	Porcelain or Marble Tile	Painted Moisture resistant	Painted Moisture Gypsum Board.		SECOND FLOOR
27	BEDROOM #4	Porcelain or Marble Tile	Painted Moisture resistant	Painted Moisture Gypsum Board.		SECOND FLOOR
28	BATH#4	Porcelain or Marble Tile	Ceramic Tile & Painted Moisture resistant	Painted Moisture Gypsum Board.		SECOND FLOOR
29	BATH#3	Porcelain or Marble Tile	Ceramic Tile & Painted Moisture resistant	Painted Moisture Gypsum Board.		SECOND FLOOR
30	BEDROOM #5	Porcelain or Marble Tile	Painted Moisture resistant	Painted Moisture Gypsum Board.		SECOND FLOOR
31	BATH#5	Porcelain or Marble Tile	Ceramic Tile & Painted Moisture resistant	Painted Moisture Gypsum Board.		SECOND FLOOR
32	BEDROOM #6	Porcelain or Marble Tile	Painted Moisture resistant	Painted Moisture Gypsum Board.		SECOND FLOOR
33	BATH#6	Porcelain or Marble Tile	Ceramic Tile & Painted Moisture resistant	Painted Moisture Gypsum Board.		SECOND FLOOR
34	MASTER BEDROOM	Porcelain or Marble Tile	Painted Moisture resistant	Painted Moisture Gypsum Board.		SECOND FLOOR
35	W.I.C #2	Porcelain or Marble Tile	Painted Moisture resistant	Painted Moisture Gypsum Board.		SECOND FLOOR
36	W.I.C HER	Porcelain or Marble Tile	Painted Moisture resistant	Painted Moisture Gypsum Board.		SECOND FLOOR
37	W.I.C HIM	Porcelain or Marble Tile	Painted Moisture resistant	Painted Moisture Gypsum Board.		SECOND FLOOR
39	HALL	Porcelain or Marble Tile	Painted Moisture resistant	Painted Moisture Gypsum Board.		SECOND FLOOR
40	MASTER BATHROOM	Porcelain or Marble Tile	Ceramic Tile & Painted Moisture resistant	Painted Moisture Gypsum Board.		SECOND FLOOR
41	A/C 5	Porcelain or Marble Tile	Painted Moisture resistant	Painted Moisture Gypsum Board.		SECOND FLOOR
43	A/C 3	Porcelain or Marble Tile	Painted Moisture resistant	Painted Moisture Gypsum Board.		SECOND FLOOR
44	TOILET	Porcelain or Marble Tile	Ceramic Tile & Painted Moisture resistant	Painted Moisture Gypsum Board.		SECOND FLOOR
45	TERRACE	Travertine	Painted Moisture resistant	Painted Moisture Gypsum Board.	NON- SLIPPERY FLOOR	SECOND FLOOR
46	I.T. CLOSET	Porcelain or Marble Tile	Painted Moisture resistant	Painted Moisture Gypsum Board.		SECOND FLOOR
47	TOILET	Porcelain or Marble Tile	Ceramic Tile & Painted Moisture resistant	Painted Moisture Gypsum Board.		SECOND FLOOR
48	TOILET	Porcelain or Marble Tile	Ceramic Tile & Painted Moisture resistant	Painted Moisture Gypsum Board.		SECOND FLOOR
50	BATH & SAUNA	Porcelain or Marble Tile	Ceramic Tile & Painted Moisture resistant	Painted Moisture Gypsum Board.		GROUND FLOOR
51	GARAGE	Concrete	Painted Moisture resistant	Painted Moisture Gypsum Board.		GROUND FLOOR
52	STORAGE 3	Porcelain or Marble Tile	Painted Moisture resistant	Painted Moisture Gypsum Board.		GROUND FLOOR

A SEPARATE PERMIT AND PRODUCT CONTROL APPROVAL, WHEN APPLICABLE, IS REQUIRED FOR THE FOLLOWING ITEMS:

" WOOD TRUSSES
" DOORS
" ROOFING
" POOLS
" FENCES
" AWNINGS
" WATER-FEATURES
" WINDOWS

1.- COORDINATE MASONRY OPENING W/ DOOR MANUFACTURER PRIOR TO WALL ERECTION (SUBMIT SHOP DRAWING FOR APPROVAL).
2.- ALL EXTERIOR DOORS TO RECEIVE SILL TO MATCH FLOOR FINISH.

THIS FINISH SCHEDULE IS FOR REFERENCE ONLY, ALL FINAL INTERIOR FINISHES & MATERIALS SHALL BE SELECTED AND COORDINATED BETWEEN GENERAL CONTRACTOR AND OWNER.

R702.4 CERAMIC TILE.

R702.4.1 GENERAL. CERAMIC TILE SURFACES SHALL BE INSTALLED IN ACCORDANCE WITH ANSI A108.1, A108.4, A108.5, A108.6, A108.11, A118.1, A118.3, A136.1 AND A137.1.

R702.4.2 FIBER-CEMENT, FIBER-MAT REINFORCED CEMENTITIOUS BACKER UNITS, GLASS MAT GYPSUM BACKERS AND FIBER-REINFORCED GYPSUM BACKERS.

FIBER-CEMENT, FIBER-MAT REINFORCED CEMENTITIOUS BACKER UNITS, GLASS MAT GYPSUM BACKERS OR FIBER-REINFORCED GYPSUM BACKERS IN COMPLIANCE WITH ASTM C1288, C 1325, C 1178 OR C 1278, RESPECTIVELY, AND INSTALLED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS SHALL BE USED AS BACKERS FOR WALL TILE IN TUB AND SHOWER AREAS AND WALL PANELS IN SHOWER AREAS.

F.B.C. R307.2 BATHTUB & SHOWER FINISHES
BATHTUB AND SHOWER FLOORS AND WALLS ABOVE BATHTUBS WITH INSTALLED SHOWER HEADS AND IN SHOWER COMPARTMENTS SHALL BE FINISHED WITH NONABSORBENT SURFACE. SUCH WALL SHALL EXTEND TO A HEIGHT OF NOT LESS THAN 6 FEET ABOVE THE FLOOR.

F.B.C. R702.4.2 BATHTUB & SHOWER WALLS
FIBER-CEMENT, FIBER-MAT REINFORCED CEMENT, GLASS MAT GYPSUM BACKERS OR FIBER-REINFORCED GYPSUM BACKERS IN COMPLIANCE WITH ASTM C 1288, C 1325, C 1178 OR C 1278, RESPECTIVELY, AND INSTALLED IN ACCORDANCE WITH MANUFACTURERS' RECOMMENDATIONS SHALL BE USED AS BACKERS FOR WALL TILE IN TUB AND SHOWER AREAS AND WALL PANELS IN SHOWER AREAS.

REVISIONS

Rev.	Date	Description

FIDANZA'S FAMILY HOUSE
PERMIT SET
11041 SW 77TH AVE, PINECREST, FL 33156

JORGE L VILLAVICENCIO
Digitally signed by JORGE L VILLAVICENCIO
Date: 2023.08.28 11:49:35 -04'00'

Construction Licensing Board
CGC060035693
Architectural Seal
STATE OF FLORIDA
JORGE L. VILLAVICENCIO
REGISTERED ARCHITECT
#0012110

VILLA & ASSOCIATES INC.
ARCHITECTURE - PLANNING - INTERIOR DESIGN
5801 SW 69 AVENUE - MIAMI, FLORIDA 33155
TEL. 305-613-0865 - E-Mail Jvillarchitect@gmail.com

CONSULTANT : ARCHI-TEK STUDIO CORP.
TEL. 305-799-8016 - E-Mail magullar@architekstudio.com

DATE: 10-20-2022
SCALE: AS SHOWN
PROJECT NO: SCHEDULES
DRAWING NO : A-6.2

Miami Dade County Department of Regulatory and Economic Resources - Job Copy
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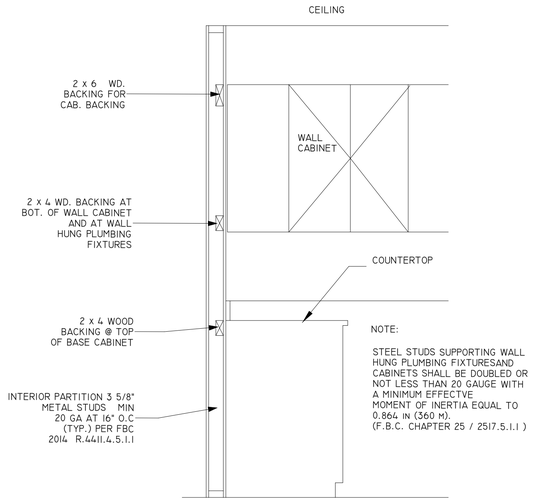
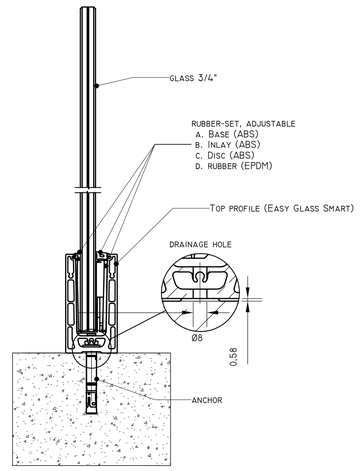
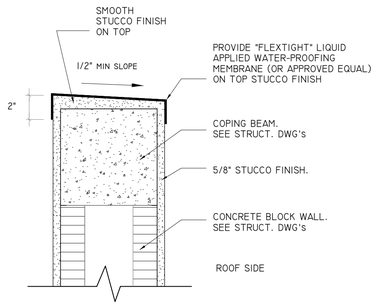


1 A-6.3 WOOD BACKING DETAIL
3/8" = 1'-0"



2 A-6.3 GLASS RAILING & ANCHOR DETAIL
3/8" = 1'-0"



3 A-6.3 PARAPET COPING DETAIL
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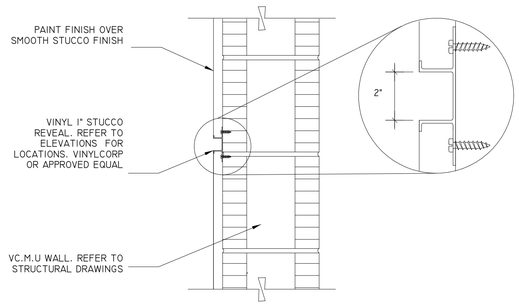
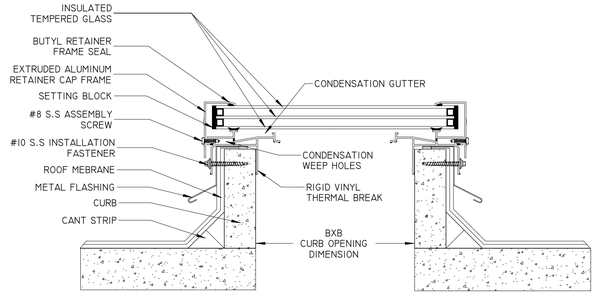
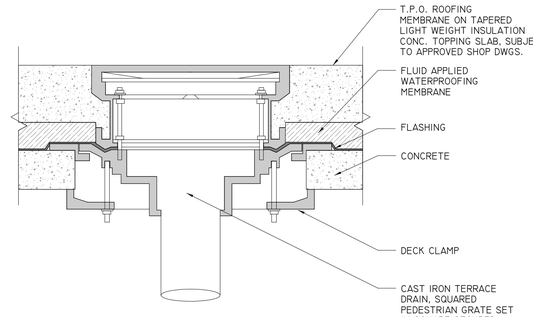


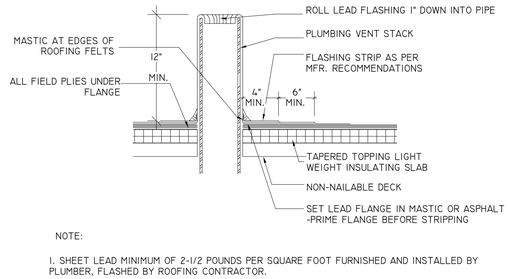
4 A-6.3 TYP. REVEAL DETAIL
3/8" = 1'-0"



6 A-6.3 SKYLIGHTS
1 1/2" = 1'-0"



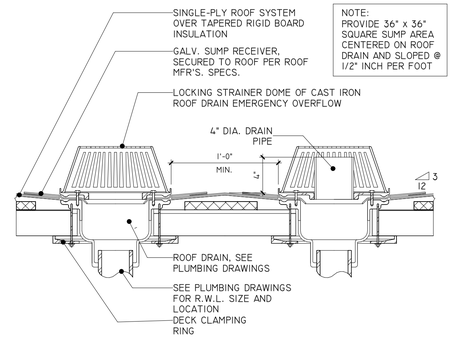
7 A-6.3 RAIN WATER BALCONY DRAIN
1 1/2" = 1'-0"



NOTE:

1. SHEET LEAD MINIMUM OF 2-1/2 POUNDS PER SQUARE FOOT FURNISHED AND INSTALLED BY PLUMBER, FLASHED BY ROOFING CONTRACTOR.

8 A-6.3 VENT THRU ROOF DETAIL
1 1/2" = 1'-0"

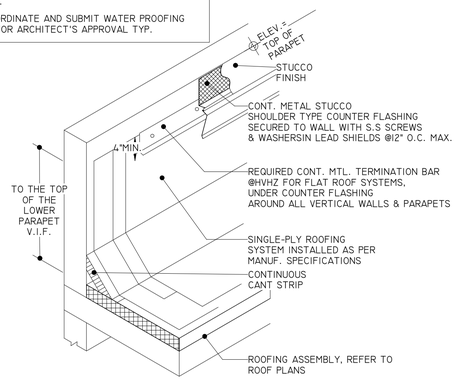


NOTE:
PROVIDE 36" x 36" SQUARE SUMP AREA CENTERED ON ROOF DRAIN AND SLOPED @ 1/2" INCH PER FOOT

9 A-6.3 ROOF DRAIN/OVERFLOW
1 1/2" = 1'-0"

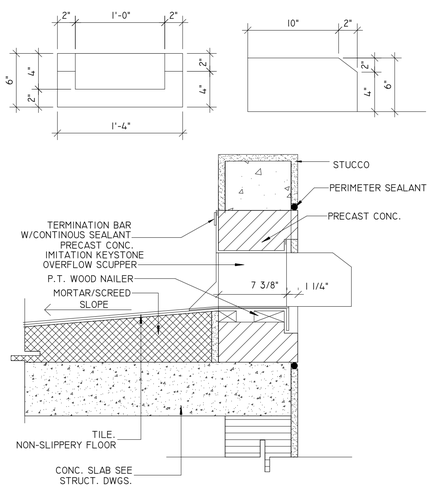
NOTE TO GC:
REFER TO MANUFACTURER'S N.O.A.'s OR PRODUCT APPROVAL FOR ALL ROOFING SYSTEM SPECIFICATIONS & DETAILS.

GC TO COORDINATE AND SUBMIT WATER PROOFING SYSTEMS FOR ARCHITECT'S APPROVAL TYP.

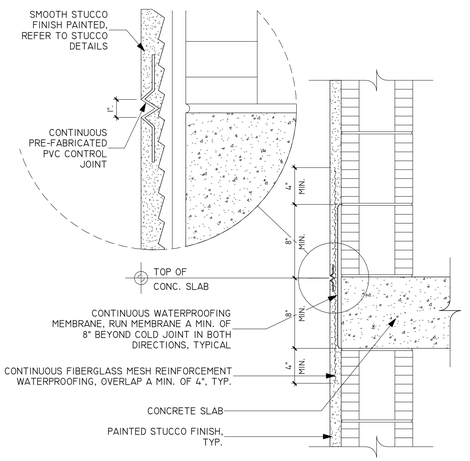


NOTE:
CONTINUOUS METAL TERMINATION BAR AT HVHZ FOR FLAT ROOF SYSTEMS, UNDER COUNTER FLASHING AROUND ALL VERTICAL WALLS / PARAPETS

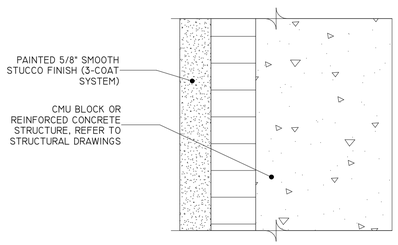
10 A-6.3 ROOF FLASHING DETAIL
1" = 1'-0"



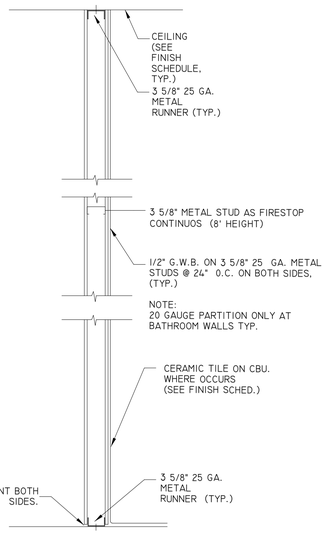
11 A-6.3 TERRACE OVERFLOW SCUPPER DETAIL
1 1/2" = 1'-0"



12 A-6.3 TYPICAL STUCCO CONTROL JOINT AT SLABS & COLUMNS
1 1/2" = 1'-0"



13 A-6.3 TYP. STUCCO DETAIL
6" = 1'-0"



14 A-6.3 NON-RATED PARTITION
1/4" = 1'-0"

JORGE L VILLAVICENCIO
Digitally signed by JORGE L VILLAVICENCIO
Date: 2023.08.28 11:49:17 -04'00'

FIDANZA'S FAMILY HOUSE
NEW CONSTRUCTION
11041 SW 77TH AVE, PINECREST, FL 33156

REVISIONS

Rev.	Date	Description

STATE OF FLORIDA
JORGE L. VILLAVICENCIO
REGISTERED ARCHITECT
Certificate No. AR0012110
Architectural Seal

VILLA & ASSOCIATES INC.
ARCHITECTURE - PLANNING - INTERIOR DESIGN
5801 SW 69 AVENUE - MIAMI, FLORIDA 33155
TEL. 305-613-0865 - E-Mail Jvillarchitect@gmail.com

CONSULTANT : ARCHI-TEK STUDIO CORP.
TEL. 305-799-8016 - E-Mail magullar@architekstudio.com

DATE: 10-20-2022
SCALE: AS SHOWN
PROJECT NO: GENERAL DETAIL
DRAWING NO : A-6.3

Miami Dade County Department of Regulatory and Economic Resources - Job Copy
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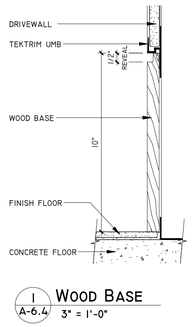
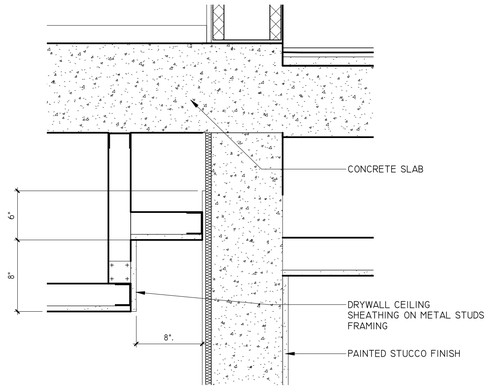
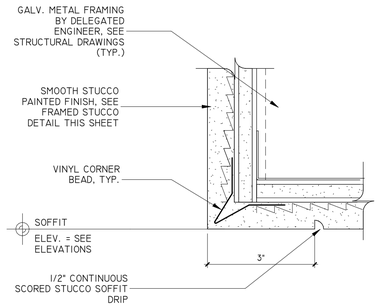
A-6.3 - GENERAL DETAIL.pdf



1 A-6.4 WOOD BASE
3" = 1'-0"



2 A-6.4 TYP. CEILING POCKET DET
1 1/2" = 1'-0"



3 A-6.4 STUCCO EDGE DETAIL
6" = 1'-0"

TYPICAL DOOR FRAME INSTALLATION DETAILS :

ANCHORS IN MASONRY WALLS

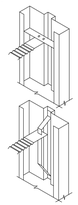
"T" ANCHOR:
SHIP LOOSE

STRAP-
PERFORATED & CORRUGATED

LOCATE TO SHUT WALL COURSING

"LABEL" ANCHOR:
NON-REMOVABLE
ADJUSTABLE

STRAP-
PERFORATED & CORRUGATED

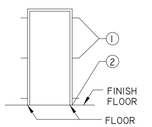


TYP. HOLLOW METAL FRAME ELEVATION IN MASONRY

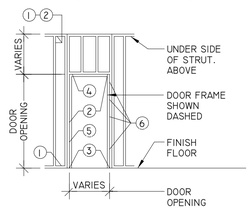
DETAIL NOTES:

1. PROVIDE (3) ANCHORS PER JAMB FOR OPENINGS 60" IN HT. & AN ADDITIONAL ANCHOR FOR EACH ADDITIONAL 30" OF HT., OR PART THEREOF.

2. SECURE THE FRAME TO FLR. WITH NO LESS THAN (2) FASTENERS THRU THE FLR. ANCHOR CLIP @ THE BOT. OF EACH FRAME.



TYP. HOLLOW METAL FRAME ELEVATION IN DRYWALL PARTITION



DETAIL NOTES:

1. METAL RUNNER

2. METAL STUDS

3. 18 GA. STEEL FLOOR ANCHORS CLIPS SECURED TO SLAB WITH TWO 1/4" DIA.POWER DRIVEN ANCHORS.

4. METAL RUNNER TURNED UP (MIN. 6") AND FASTENED TO STUDS WITH TYPE"S" PAN HEAD SCREWS.

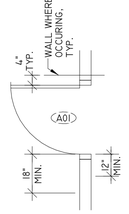
5. TYPICAL JAMB ANCHOR CLIP 18 GA. STEEL JAMB ANCHOR WELDED TO DOOR FRAME.

6. LOCATE JAMB ANCHOR CLIPS ABOVE HINGE REINFORCEMENTS AND BELOW TOP REINFORCEMENT. CLIPS ON STRIKE SIDE TO BE LOCATED DIRECTLY OPPOSITE THOSE ON HINGE SIDE.

TYPICAL DOOR JAMB

DETAIL NOTES:

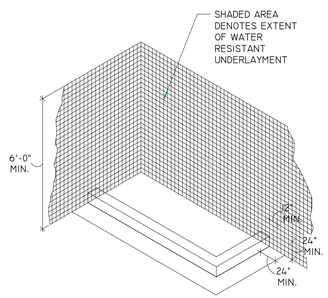
ALL HOLLOW METAL FRAMES SHALL BE LOCATED 2" (TWO INCH) MIN. FROM ADJACENT CONSTRUCTION (PARTITIONS) TYPICAL, THROUGHOUT, UNLESS OTHERWISE INDICATED.



SINGLE DOOR

GENERAL NOTES :
1. FINISH :
1.1. GLAZING SHALL BE PER DETAIL 19.
1.2. STOREFRONT ALUMINUM SHALL BE "DARK BRONZE TO MATCH EXSITING VIF" OR APPROVED EQUAL.
2. U-VALUE & SOLAR HEAT GAIN COEFFICIENT REQUIREMENT:
2.1. U-VALUE: 1.07 OR LOWER.
2.2. S.H.G.C: 0.50 OR LOWER.
2.3. VIS TRA: 0.76
(THESE VALUES ARE TAKEN FROM EXISTING BUILDING'S SHOP DRAWINGS TO MATCH)
3. ALL SIZES SHOWN (UNLESS OTHERWISE NOTED) ARE ROUGH OPENINGS.
4. G.C. SHALL BE RESPONSIBLE TO FIELD VERIFY ALL MASONRY AND ROUGH OPENINGS PRIOR TO FABRICATION OF ANY STOREFRONT GLAZING SYSTEM.
8 ALL GLAZING AND STOREFRONT SHALL MEET CODE REQUIRED WIND PRESSURES PER F.B.C.
5. DOORS & WINDOWS SHALL MEET DEFLECTION & WIND LOAD REQUIRED AS PER LATEST EDITION OF THE F.B.C. DOORS & WINDOWS SHALL HAVE PRODUCTS APPROVALS. MANUFACTURERS SHALL SUBMIT ENGINEERED CALCULATIONS OF DESIGN LOADS W/ SHOP DRAWINGS PREPARED BY FLORIDA REGISTERED PROFESSIONAL ENGINEER W/ VALID PRODUCTS APPROVALS. REFER TO PRODUCTS APPROVALS FOR ACTUAL SHOP DRAWINGS SPECIFICATIONS & DETAILS FOR WINDOW & DOOR ANCHORAGE & CONSTRUCTION CONNECTIONS. SUBMIT SHOP DRAWING FOR ARCHITECTS REVIEW, SEPARATE PERMIT REQUIRED.
6. WHERE DISIMILAR METALS ARE USED THEY SHALL BE COATED TO PREVENT GALVANIC REACTION.
7. ALL GLAZING W/ FRAMES SHALL BE TESTED FOR AIR & WATER INFILTRATION.
8. PROVIDE ALUMINUM BREAK METAL AT ALL STEEL BEAMS & COLUMNS, TYPICAL. AT INTERIOR & EXTERIOR, FINISH OF BREAK METAL TO MATCH THAT OF STOREFRONT ASSEMBLY.
9. FINISH OF ALL GLAZING ALL STOREFRONT SYSTEM GLAZING SHALL BE CATEGORY II SAFETY TEMPERED GLASS PER F.B.C. SECTIONS 2406 & 2411.

WATER RESISTANT DETAIL:



SHOWER COMPARTMENTS SHALL HAVE FLOORS AND WALLS CONSTRUCTED OF SMOOTH, CORROSION RESISTANT AND NON ABSORBENT MATERIALS TO A HEIGHT OF NOT LESS THAN 72" ABOVE THE COMPARTMENT OF THE DRAIN.

A.1.2.2 - CUT EDGES AND OPENINGS AROUND PIPES AND FIXTURES SHALL BE CAULKED FLUSH WITH WATERPROOF, FLEXIBLE SEALANT OR ADHESIVE COMPLYING WITH THE ANSI A 136.1. AMERICAN NATIONAL STANDARDS FOR ORGANIC ADHESIVES FOR INSTALLATION OF CERAMIC TILE. TYPE I OR TYPE II. THE TILE, WALL PANEL, OR OTHER SURFACING MATERIAL MANUFACTURER'S SPECIFICATIONS SHALL BE FOLLOWED.

A.1.2.3 - TILE OR WALL PANELS SHALL BE APPLIED ON MOISTURE RESISTANT PANEL "DUROCK" CEMENT BOARD, OR EQUAL, DIRECTLY BEHIND TUB TILES OR SHOWER AREAS DOWN TO THE TOP SURFACE, OR EDGE, OF THE FINISHED SHOWER FLOOR, RETURN, OR TUB, AND SHALL OVERLAP THE TOP LIP OF THE RECEPTOR, SUB-PAN, OR TUB, AND SHALL COMPLETELY COVER THE AREAS SPECIFIED IN SECTION A.1.2.3(A) THROUGH A.1.2.3(E) - (SEE FIGURE 13)

A. TUBS WITHOUT SHOWERHEADS - SURFACING MATERIAL SHALL EXTEND NOT LESS THAN 6" INCHES (150 MM) ABOVE THE RIM OF THE TUB.

B. SURFACING MATERIAL SHALL BE APPLIED TO THE FULL SPECIFIED HEIGHT FOR A DISTANCE OF NOT LESS THAN 4" INCHES (100 MM) BEYOND THE OUTSIDE OF THE RECEPTOR. AREAS BEYOND AN OUTSIDE CORNER ARE EXCLUDED.

FINISH NOTES:

1. PROVIDE WATER RESISTANT GYPSUM WALLBOARD AT ALL WET PARTITIONS (PARTITIONS AROUND SHOWERS, BATHTUBS AND SINKS)

2. TILE FINISH, OR ANY OTHER CODE APPROVED NON-ABSORBENT FINISH, ON FLOORS AND WALLS ABOVE BATHTUBS AND AT SHOWERS, SHALL EXTEND TO A HEIGHT OF NOT LESS THAN 6 FEET ABOVE FLOOR (R307.2 FBC 2014)

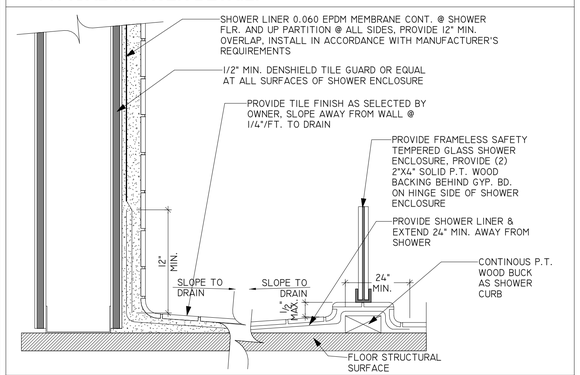
3. FLAME SPREAD AND SMOKE DENSITY (FBC 2014 R302.9)
-WALL AND CEILING FINISHES SHALL HAVE A FLAME-SPREAD INDEX OF NOT GREATER THAN 200.
-WALL AND CEILING FINISHES SHALL HAVE A SMOKE-DEVELOPED INDEX OF NOT GREATER THAN 450.

4. INSULATION (FBC 2014 R302.10)
-INSULATION MATERIALS, INCLUDING FACINGS, SUCH AS VAPOR RETARDERS OR VAPOR PERMEABLE MEMBRANES INSTALLED WITHIN FLOOR-CILING ASSEMBLIES, ROOF-CEILING ASSEMBLIES, WALL ASSEMBLIES, CRAWL SPACES AND ATTICS SHALL HAVE A FLAME SPREAD INDEX NOT TO EXCEED 25 WITH AN ACCOMPANYING SMOKE DEVELOPED INDEX NOT TO EXCEED 450 WHEN TESTED IN ACCORDANCE WITH ASTM E 84 OR UL 723.

5. PAINT ALL EXPOSED STUCCO, WOOD, AND DRYWALL MATERIAL (UNLESS OTHER FINISH HAS BEEN SPECIFIED). COLOR TO BE SELECTED BY OWNER AND ARCHITECT.

6. PROVIDE CERAMIC TILE FINISH FOR ALL INTERIOR AREAS, TERRACES AND BALCONIES (WEATHER RESISTANT AND NON-SLIPERY TYPE FOR EXTERIOR AREAS). GARAGE FLOOR AND WALLS TO BE EXPOSED AND PAINTED CONCRETE AND MASONRY. PROVIDE PAINTED WOOD WALL BASE FOR ALL INTERIOR AREAS, TO MATCH EXISTING, AND AS SELECTED BY OWNER.

TYPICAL SHOWER DETAIL:



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A-6.4 - GENERAL DETAIL.pdf

REVISIONS

Rev.	Date	Description

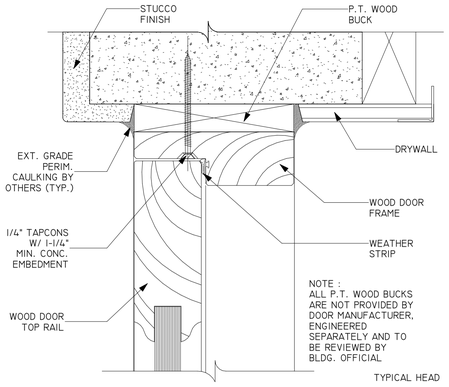
FIDANZA'S FAMILY HOUSE
PERMIT SET
11041 SW 77TH AVE, PINECREST, FL 33156

JORGE L VILLAVICENCIO
Digitally signed by JORGE L VILLAVICENCIO
Date: 2023.08.28 11:48:57 -04'00'

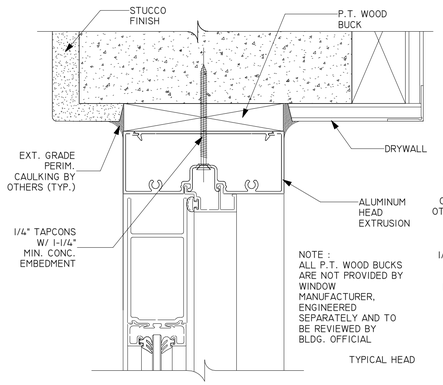
STATE OF FLORIDA
JORGE L. VILLAVICENCIO
REGISTERED ARCHITECT
LICENSE NO. AR0012110
Architectural Seal
Corporate Seal AA26003589

VILLA & ASSOCIATES INC.
ARCHITECTURE - PLANNING - INTERIOR DESIGN
5801 SW 69 AVENUE - MIAMI, FLORIDA 33155
TEL. 305-613-0865 - E-Mail Jvillarchitect@gmail.com
CONSULTANT : ARCHI-TEK STUDIO CORP.
TEL. 305-799-8016 - E-Mail magullar@architekstudio.com

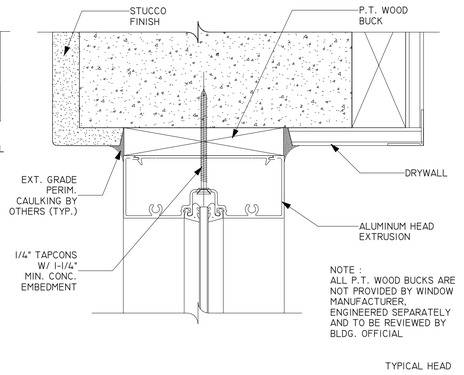
DATE: 10-20-2022
SCALE: AS SHOWN
PROJECT NO: GENERAL DETAIL
DRAWING NO : A-6.4



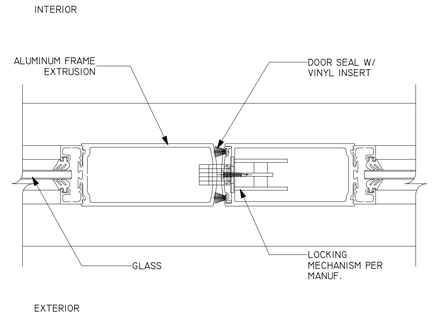
1 A-6.5 **WOOD DOOR HEAD DETAIL**
6" = 1'-0"



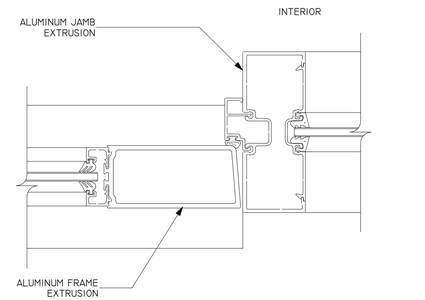
2 A-6.5 **ALUM. DOOR HEAD DETAIL**
6" = 1'-0"



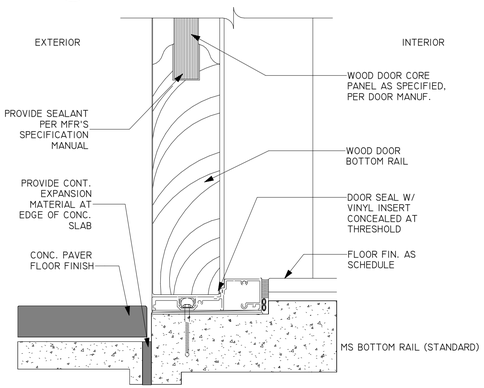
3 A-6.5 **ALUM. DOOR SIDELITE HEAD DETAIL**
6" = 1'-0"



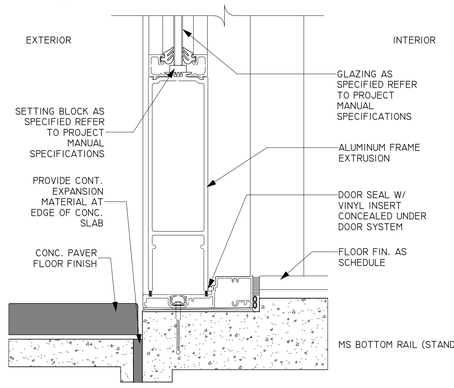
4 A-6.5 **ALUM. DOOR MEETING RAIL DETAIL**
6" = 1'-0"



5 A-6.5 **ALUM. DOOR JAMB DETAIL**
6" = 1'-0"



6 A-6.5 **WOOD DOOR SILL DETAIL**
6" = 1'-0"



7 A-6.5 **ALUM. DOOR SILL DETAIL**
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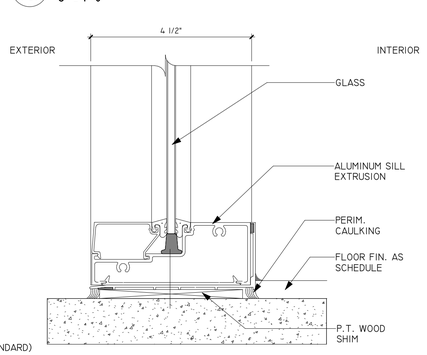

8 A-6.5 **ALUM. DOOR SIDELITE SILL DETAIL**
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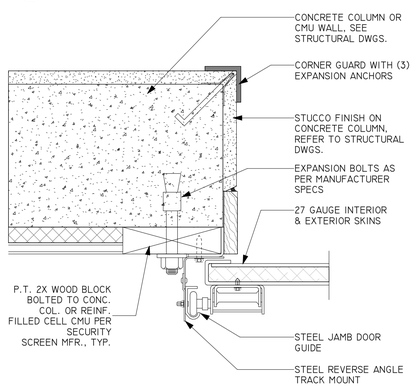

11 A-6.5 **OVERHEAD GARAGE DOOR JAMB DETAIL**
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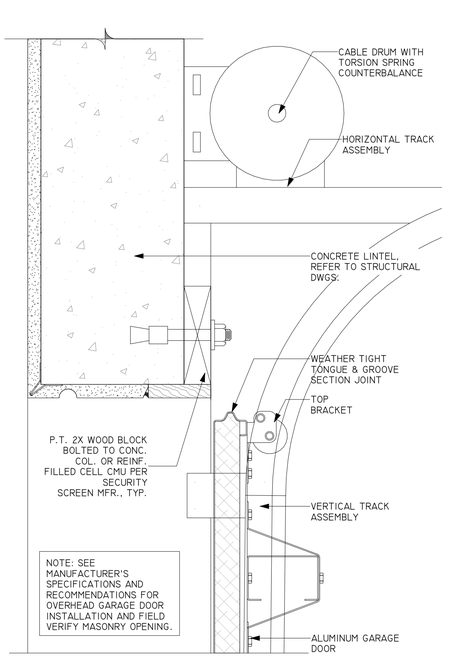

12 A-6.5 **OVERHEAD GARAGE DOOR HEAD DETAIL**
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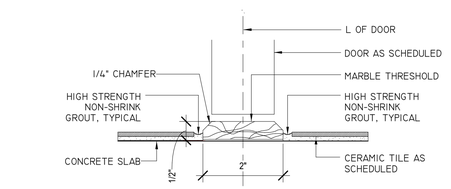

18 A-6.5 **DETAIL THRESHOLD**
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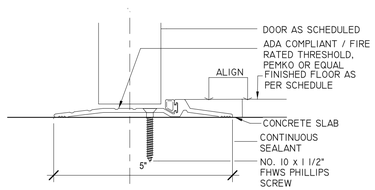

19 A-6.5 **DETAIL THRESHOLD**
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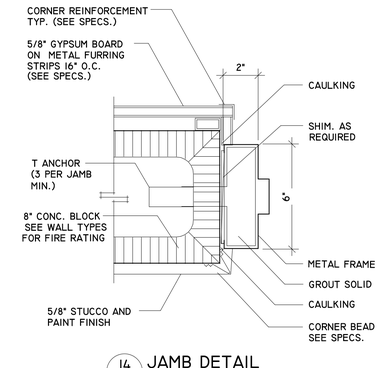

14 A-6.5 **JAMB DETAIL**
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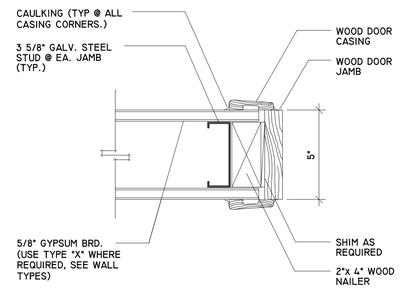

15 A-6.5 **JAMB DETAIL**
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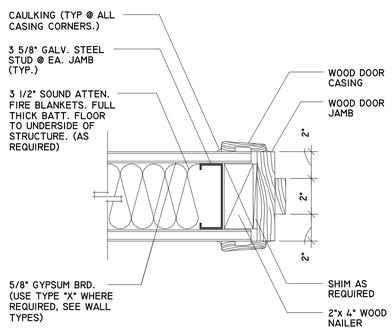
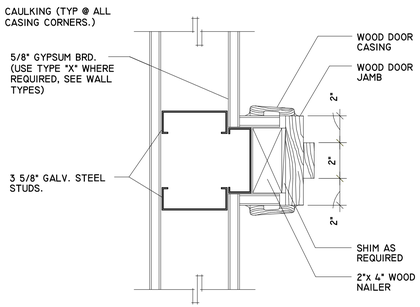
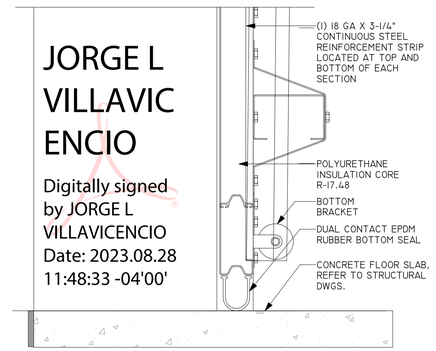


16 A-6.5 **JAMB DETAIL**
3" = 1'-0"



17 A-6.5 **JAMB DETAIL**
3" = 1'-0"



13 A-6.5 **OVERHEAD GARAGE DOOR THRESHHOLD DETAIL**
3" = 1'-0"

JORGE L VILLAVIC ENCIO
Digitally signed by JORGE L VILLAVICENCIO
Date: 2023.08.28 11:48:33 -04'00'

REVISIONS

Rev.	Date	Description

FIDANZA'S FAMILY HOUSE
PERMIT SET
11041 SW 77TH AVE, PINECREST, FL 33156

STATE OF FLORIDA
JORGE L VILLAVICENCIO
Registration License No. AR0012110
REGISTERED ARCHITECT
Architectural Seal

VILLA & ASSOCIATES INC.
ARCHITECTURE - PLANNING - INTERIOR DESIGN
5801 SW 69 AVENUE - MIAMI, FLORIDA 33155
TEL. 305-613-0865 - E-Mail Jvillarchitect@gmail.com
CONSULTANT : ARCHI-TEK STUDIO CORP.
TEL. 305-799-8016 - E-Mail magullar@architekstudio.com

DATE: 10-20-2022
SCALE: AS SHOWN
PROJECT NO: DOOR DETAILS
DRAWING NO : A-6.5

Miami Dade County Department of Regulatory and Economic Resources - Job Copy
2023021890 - 7/9/2024 11:49:47 AM
A-6.5 - DOOR DETAILS.pdf

Regulatory and Economic Resources
11805 SW 26th Street
Miami, Florida 33175-2474
786 315-2000
miamidade.gov/economy

AFFIDAVIT AUTHORIZING SUBMITTAL OF SCAN PLANS AND CONSTRUCTION DOCUMENTS IN LIEU OF DIGITAL SIGNED AND SEALED SET.

This affidavit is to be used for permit application plan submittals during the Department of Regulatory and Economic Resources' (RER) COVID-19 Emergency Period per Mayor's Emergency Order 14-20.

JOB ADDRESS: 11041 SW 77 AVE PINECREST, FL 33156

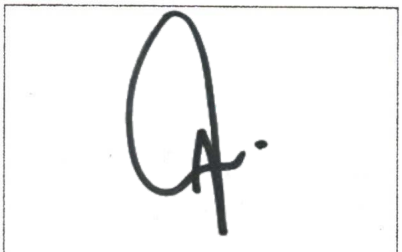
PROJECT NAME: 11041 SW 77 AVE PINECREST, FL 33156

PLAN REFERENCE/JOB IDENTIFICATION NUMBER FROM NUMBER FROM TITLE BLOCK:

M2023021890

I, (print full name) Jorge Millan Design Professional of Record with license number # SM0971292 with the Firm (Name) Empire Engineering Services Corp, hereby authorize the submittal of scanned plans and construction documents in lieu of a digital signed and sealed set. I affirm that the scanned files submitted for project referenced above are an exact and accurate duplicate of the complete hardcopy set of plans signed and sealed by the undersigned. I understand that I am the custodian of all original records and must make the documents available for inspection upon request of the Building Official or his designee.

I also hereby acknowledge that if there are any discrepancies between the two versions, the review process for said project will be terminated, become null and void, and require re-application under a new permit number. This affidavit will apply and must be submitted throughout the life of the project including initial submittal, re-works, revisions, shop drawings, etc. during this emergency period.



Architect/Engineer of Record Signature & Seal

Designer Professional of Record Signature:

Designer Professional of Record Name: Jorge Millan

Designer Professional of Record Phone: 305-885-5255

Design Professional of Record Email: info@empireesc.com

STATE OF FLORIDA COUNTY OF MIAMI-DADE

Sworn to and subscribed before me this 20 day of FEBRUARY, 20 24,

by JORGE MILLAN

Signature of Notary Public

Print Name Cruz A Aristizabal

Personally known ___ or Produced Identification (Type) ___

(NOTARY SEAL)
CRUZ A. ARISTIZABAL
MY COMMISSION # HH34412
EXPIRES: August 22, 2024

Miami Dade County Department of Regulatory and Economic Resources Job Copy
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MIAMI-DADE COUNTY

Regulatory and Economic Resources
11805 SW 26th Street
Miami, Florida 33175-2474
786 315-2000
miamidade.gov/economy

AFFIDAVIT AUTHORIZING SUBMITTAL OF SCAN PLANS AND CONSTRUCTION DOCUMENTS IN LIEU OF DIGITAL SIGNED AND SEALED SET.

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PROJECT NAME: 11041 SW 77 AVE PINECREST, FL 33156

PLAN REFERENCE/JOB IDENTIFICATION NUMBER FROM NUMBER FROM TITLE BLOCK:

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Empire Engineering Services Corp

Architect/Engineer of Record Signature & Seal

Designer Professional of Record Signature: [signature]

Designer Professional of Record Name: Jorge Millan

Designer Professional of Record Phone: 305-885-5255

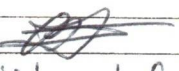
Design Professional of Record Email: info@empireesc.com

STATE OF FLORIDA COUNTY OF MIAMI-DADE

Sworn to and subscribed before me this 20 day of FEBRUARY, 20 24,

by JORGE MILLAN

Signature of Notary Public [signature]



Print Name Cruz A Aristizabal

(NOTARY SEAL)
CRUZ A. ARISTIZABAL
MY COMMISSION # HH34412
EXPIRES: August 22, 2024

Personally known or produced identification (TYPE)

Miami Dade County Department of Regulatory and Economic Resources - Job Copy
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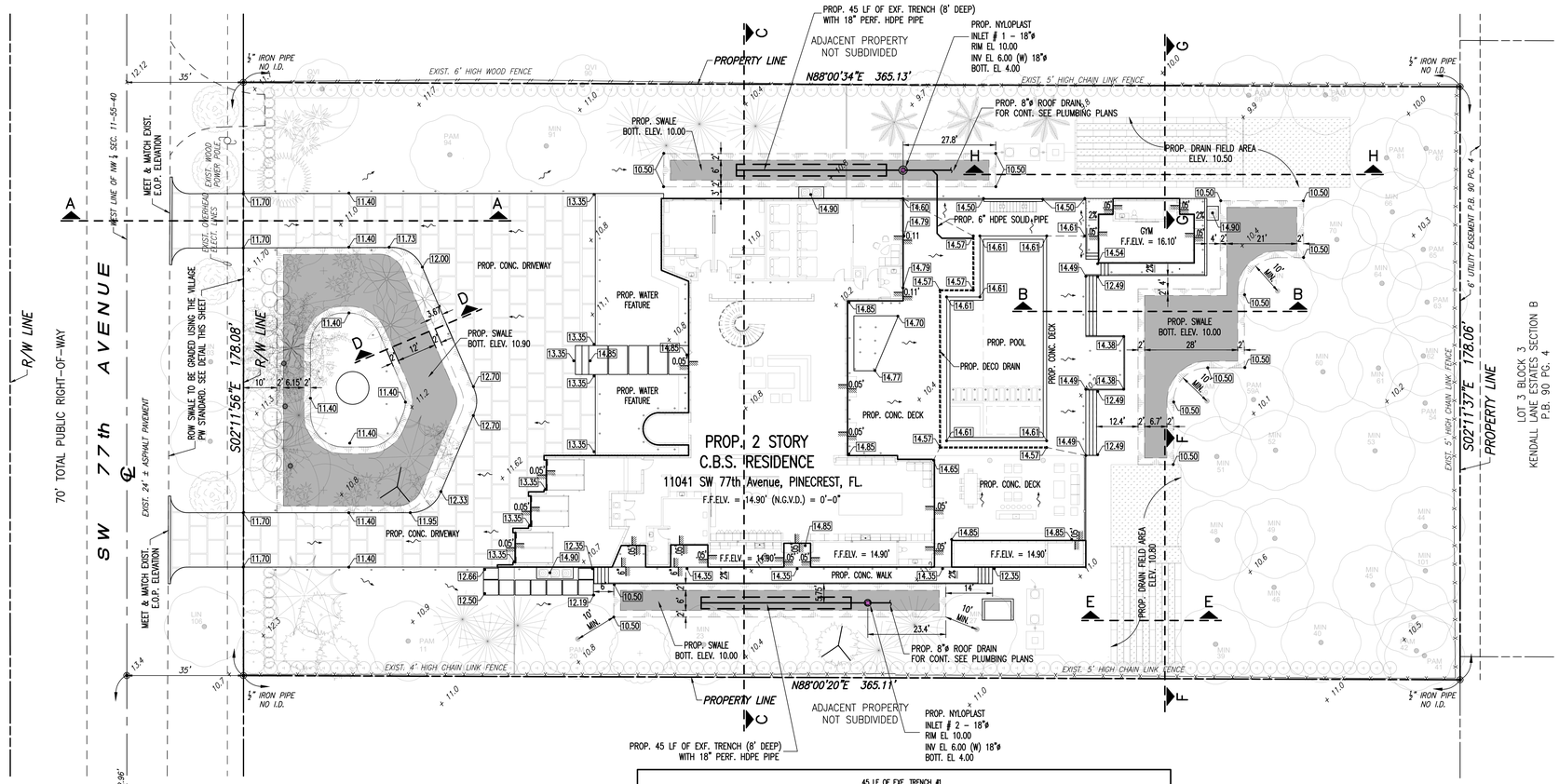
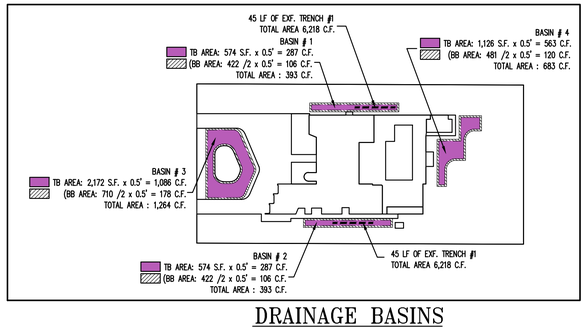
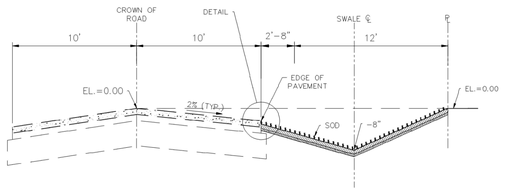


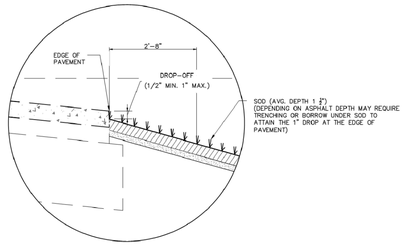


DRAINAGE BASINS



VILLAGE OF PINECREST PUBLIC WORKS
TYPICAL SWALE DETAIL

2021



DETAIL

Sunshine811
Call 811 or visit www.sunshine811.com two full business days before digging to have buried facilities located and marked.
Check positive response codes before you dig!

FLOOD LEGEND
Residential New Construction

ADDRESS: 11041 SW 77th AVENUE, PINECREST FL. 33156

LOTS: SEE LEGAL DESCRIPTION BLOCK: ___ PLAT BOOK: ___ PAGE: ___

AVERAGE CROWN OF ROAD ELEV.: 13.4 FT. NGVD. HIGHEST CROWN OF ROAD ELEVATION WAS TAKEN FROM THE ATTACHED CERTIFIED SURVEY, OR A CERTIFIED SURVEY PREPARED BY: -- PLS LIC.#: --
SURVEYOR'S NAME

	LOWEST FLOOR ELEVATION	GARAGE/STORAGE FLOOR ELEVATION	ADJACENT GRADE ELEVATION	SWALE AREA ELEVATION
PROPOSED	14.90 FT. NGVD	13.61 FT. NGVD	FT. NGVD	FT. NGVD

ALL ELECTRICAL, MECHANICAL AND PLUMBING WILL BE PLACED AT OR ABOVE THE BASE FLOOD ELEVATION. (B.F.E.)

ALL AREAS BELOW B.F.E. SHALL BE PROVIDED WITH A MINIMUM OF TWO (2) OPENINGS HAVING A TOTAL NET AREA OF NO LESS THAN ONE SQUARE INCH OF OPENING FOR EVERY SQUARE FOOT OF ENCLOSED AREA SUBJECT TO FLOODING. THE BOTTOM OF THE OPENING WILL BE NO HIGHER THAN ONE (1) FOOT ABOVE GRADE AND LOCATED ON DIFFERENT SIDES OF THE ENCLOSED AREA. OPENINGS WILL BE EQUIPPED WITH SCREENS OR LOUVERS. FLOOD RESISTANT MATERIALS WILL BE USED BELOW B.F.E.

ALTERNATIVELY, SEE A CERTIFICATION BY N/A P.E. ON THE PLAN NOTES INDICATING THAT THE DESIGN WILL ALLOW FOR THE AUTOMATIC EQUALIZATION OF HYDROSTATIC FLOOD FORCES ON EXTERIOR WALLS.

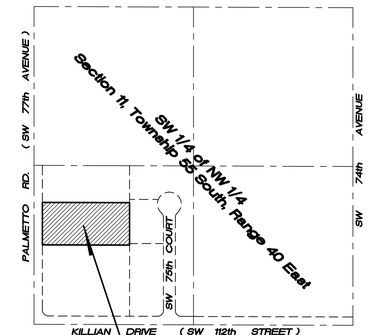
THE SITE WILL BE GRADED IN A MANNER TO PREVENT THE FLOODING OF ADJACENT PROPERTIES. WHERE NECESARY INTERCEPTOR SWALES WILL BE CONSTRUCTED ON-SITE WITH NO ENCROACHMENT OVER ADJACENT PROPERTIES.

0' – 0" = 14.90 NGVD

LEGEND

D.B.	DRAIN BASIN
COND	CONDENSATE DRAIN
SD	STORM DRAIN
RD	ROOF DRAIN
GD	GARAGE DRAIN
RWL	RAIN WATER LEADER
10.7	EXISTING ELEVATION
11.45	PROPOSED ELEVATION
	PROPOSED CONCRETE PAVEMENT
	EXIST. TREES
	PROP. TREES, PALMS AND VEGETATION

LOT 3 BLOCK 3
KENDALL LANE ESTATES SECTION B
P.B. 90 PG. 4



SITE LOCATION
11041 SW 77th AVENUE, PINECREST FL. 33156
FOLIO #: 20-5011-000-0390

LOCATION MAP
SCALE: 1" = 300'

LEGAL DESCRIPTION:

THE NORTH ½ OF THE WEST ½ OF THE SOUTHWEST ¼ OF THE SOUTHWEST ¼ OF THE NORTHWEST ¼, LESS THE NORTH 155 FEET, AND NORTH ½ OF THE WEST 66 FEET OF THE EAST ½ OF THE SOUTHWEST ¼ OF THE SOUTHWEST ¼ OF THE NORTHWEST ¼, LESS THE NORTH 155 FEET THEREOF, SECTION 11, TOWNSHIP 55 SOUTH, RANGE 40 EAST, AND LESS THE WEST 35 FEET THEREOF, FOR ROAD PROPOSED LYING AND BEING IN MIAMI-DADE COUNTY, FLORIDA.

GENERAL NOTES

1. THE CONTRACTOR SHALL PROVIDE BEST MANAGEMENT PRACTICES (BMPs) DURING CONSTRUCTION TO PREVENT EROSION AND DISCHARGE FROM THE SITE DURING LAND DISTURBING ACTIVITIES.
2. UPON CONSTRUCTION COMPLETION BUT PRIOR TO FINAL APPROVAL FOR THE PROJECT, THE CONTRACTOR SHALL PREPARE A SURVEY SIGNED AND SEALED BY A FLORIDA REGISTERED PSM WITH SPOT ELEVATIONS EVERY 25 FEET ALONG THE ENTIRE PROPERTY LINE AND THROUGHOUT THE PROPERTY, AND AT THE CONSTRUCTED SIDEWALK AND SWALE IN THE R/W.
3. THE CONTRACTOR SHALL SCHEDULE AND COORDINATE A MEETING ONSITE WITH THE VILLAGE INSPECTOR AND THE EOR FOR THE FINAL STORMWATER INSPECTION. THE CONTRACTOR SHALL HAVE READY FOR THE MEETING A SET OF THE PERMITTED PLANS, THE AS-BUILT SURVEY AND THE EOR CERTIFICATION LETTER.
4. THE CONTRACTOR SHALL PROVIDE THE EOR THE AS-BUILT SURVEY A MINIMUM OF 7 DAYS PRIOR TO THE FINAL STORMWATER INSPECTION.
5. ALL WORK IN SHALL BE IN CONFORMANCE WITH THE REQUIREMENTS OF THE VILLAGE OF PINECREST STANDARDS, AND MIAMI-DADE COUNTY DEPARTMENT OF ENVIRONMENTAL RESOURCES MANAGEMENT (DERM).

CITY OF PINECREST NOTES

1. NO FILL OF ANY KIND CAN BE BROUGHT ON SITE OR TO THE ROW OUTSIDE OF THE BUILDING FOOTPRINT.
2. NO RUNOFF GENERATED FROM THE DRIVEWAY IS PERMITTED TO DISCHARGE DIRECTLY TO THE ROW OR ADJACENT PROPERTIES.
3. THE ROW SWALE IS TO BE GRADED USING THE VILLAGE PW STANDARD.
4. NO TREES ARE TO BE PLANTED IN THE ROW BEFORE A CONDITIONAL APPROVAL OF THE ROUGH GRADING OF THE SWALE HAS BEEN APPROVED BY PUBLIC WORKS.
5. NO SHRUBS ARE TO BE PLANTED IN THE ROW AND ANY EXISTING SHRUBS ARE TO BE REMOVED.
6. NO IRRIGATION, LIGHTING, OR ELECTRICAL COMPONENTS OF ANY KIND MAY BE INSTALLED IN THE ROW.
7. ALL PROPOSED TREES IN THE ROW WILL BE PLANTED A MINIMUM OF 7' FROM THE EDGE OF PAVEMENT TO THE FACE OF THE TREE AND WILL BE OF A TYPE, KIND, AND SPACING AS APPROVED BY THE VILLAGE ARBORIST. ARBORIST CONTACT INFORMATION IS: RICK CARR – CCARR@PINECREST-FL.GOV
8. ANY DECORATIVE D/W IN THE ROW SHALL HAVE AN 8"W X 12"D, 3,000-PSI, FIBER MESH CONCRETE HEADER CURB LOCATED BETWEEN THE ASPHALT AND THE PROPOSED D/W.
9. NO MATERIALS OF ANY KIND WILL BE STORED FOR ANY LENGTH OF TIME ON THE PUBLIC SWALE .
10. ALL WORK CONDUCTED IN THE ROW WILL IMPLEMENT THE APPLICABLE FDOT STANDARD INDEX 600 SERIES FOR MOT.

DRAINAGE NOTES

1. ALL ELEVATIONS REFER TO THE NATIONAL GEODETIC VERTICAL DATUM (N.G.V.D.) OF 1929.
2. GRADING CRITERIA:
   A. DADE COUNTY FLOOD CRITERIA ELEVATION: + 6.3 AS PER PLAT BOOK 120, PAGE 13. FEDERAL EMERGENCY MANAGEMENT AGENCY (F.E.M.A.): FLOOD ZONE "XX", BASE FLOOD ELEVATION N/A AS PER F.I.R.M. PANEL NO. 0462 L MAP NO. 120425 DATED SEPTEMBER 11, 2009.
3. DRAINAGE DESIGN CRITERIA:
   A. DESIGN STORM: 25 YEARS – 24 HOURS – 8.5 INCHES.
   B. DESIGN WATER TABLE ELEVATION: + 3.5 AS PER DADE COUNTY PUBLIC WORKS MANUAL, PART 2, SEC. D4, WC 2.2.
   C. OIL AND GREASE INTERCEPTORS (BAFFLES) ARE TO BE PLACED OVER ALL PIPES IN DRAINAGE STRUCTURES CONNECTING TO A FRENCH DRAIN SYSTEM. BAFFLES SHALL BE FIBERGLASS MODEL S18 AS MANUFACTURED BY GEOTECHNICAL MARINE CORP. OR D.E.R.M. APPROVED EQUAL.
4. CONTRACTOR:
   A. COORDINATE YOUR WORK WITH WATER AND SEWER CONTRACTOR TO AVOID POTENTIAL CONFLICTS.
   B. NOTIFY ALL UTILITY COMPANIES AT LEAST 48 HOURS BEFORE STARTING WORK.
   C. CONTACT THE CITY OF MIAMI PUBLIC WORKS DEPARTMENT FOR GENERAL MAINTENANCE OF TRAFFIC PLAN AND MAINTAIN TRAFFIC ACCORDINGLY.
   D. IF EXISTING IMPROVEMENTS ARE DAMAGED, RESTORE THEM TO THEIR ORIGINAL CONDITION. NO SEPARATE PAYMENT WILL BE MADE FOR THIS WORK.
5. PROTECT COMPLETED DRAINAGE STRUCTURES FROM CONTAMINATION BY SILT AND CONSTRUCTION DEBRIS. PLACE PLYWOOD ON OR FILTER FABRIC BETWEEN THE FRAME AND GRATE UNTIL SITE CONSTRUCTION OPERATIONS ARE FINISHED.
6. PROVIDE A SMOOTH SURFACE TRANSITION BETWEEN NEW AND EXISTING ASPHALT PAVEMENTS.
7. ADJUST ALL EXISTING UTILITY COVERS AND INLET GRATES (TO REMAIN) WITHIN THE LIMITS OF THE FLUSH WITH THE FINISHED GRADE.
8. RESTORE ALL PAVED AREAS AFTER COMPLETION OF UNDERGROUND WORK.

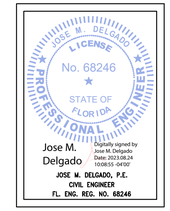
EARTHWORK AND CLEARING NOTES

1. THE CONTRACTOR'S BID FOR EARTHWORK SHALL INCLUDE THE EXCAVATION AND DISPOSAL OF UNSUITABLE MATERIAL, INCLUDING A MINIMUM 6" TOPSOIL REMOVAL, AND REPLACEMENT WITH SUITABLE MATERIAL WITHIN THE LIMITS OF CONSTRUCTION. ALL TOPSOIL THAT IS SUITABLE FOR LANDSCAPING OPERATIONS MAY BE STOCKPILED NEARBY FOR SUCH USE IF APPROVED BY OWNER. ALL MUCK, PEAT, OR SAND AND CLAY WITH A HIGH ORGANIC CONTENT SHALL BE CONSIDERED UNSUITABLE MATERIAL. SAID MATERIAL SHALL BE EXCAVATED AND DISPOSED OF IN COMPLIANCE WITH SECTIONS 24 AND 30 OF THE D.C.P.W. MANUAL, PART II. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY THE UNSUITABLE MATERIAL PRESENT ON-SITE AND SHALL MAKE HIS OWN ESTIMATE ON THE VOLUME OF MATERIAL ACTUALLY REQUIRED TO OBTAIN THE CROSS SECTIONS OR GRADES AS SHOWN ON THE PLANS.
2. UPON REMOVAL OF UNSUITABLE MATERIALS, THE CONTRACTOR SHALL BACKFILL WITH SUITABLE MATERIAL TO A SURFACE CONFORMING TO THE PROPOSED GRADES AND READY TO RECEIVE THE BASE COURSE. BACKFILL SHALL BE CLEAN, ORGANIC-FREE MATERIAL CONTAINING ROCKS SMALLER THAN ONE INCH IN DIAMETER. THE SUBGRADE SHALL BE CONSTRUCTED IN LAYERS OF NOT MORE THAN 12" COMPACTED THICKNESS, AND COMPACTED TO 95% OF THE MAXIMUM DENSITY OBTAINABLE UNDER AASHTO SPECIFICATION T180-74 UNDER ALL AREAS, EXCEPT UNDER LANDSCAPED OR GRASS AREAS, WHERE 80% MINIMUM, 85% MAXIMUM COMPACTION IS REQUIRED. TOP SOIL SHALL NOT BE COMPACTED.
3. SOIL BORING INFORMATION WILL BE PROVIDED BY THE OWNER. THE SOIL BORING DATA PROVIDED IS FOR THE CONTRACTOR'S INFORMATION, THE ENGINEER DOES NOT MAKE ANY REPRESENTATION REGARDING EXISTING SUBSOIL CONDITIONS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO PERFORM ADDITIONAL SOIL BORINGS TO VERIFY THE LIMITS OF UNSUITABLE MATERIAL ON-SITE.
4. WHEREVER EXCAVATIONS FOR UTILITIES ARE MADE BELOW THE GRADES INDICATED ON THE PLANS, GRANULAR MATERIAL FREE OF ORGANIC OR OTHER DELETERIOUS MATERIAL SHALL BE USED TO RESTORE THE AREA TO THE PROPER GRADE, AND SHALL BE COMPACTED TO 95 AT OPTIMUM MOISTURE, AASHTO T-180, METHOD "D".
5. AREAS TO BE FILLED & COMPACTED SHALL COMPLY WITH THE RECOMMENDATIONS OUTLINED IN THE SOILS REPORT IN ORDER TO OBTAIN THE DESIRED DENSITY.
6. PRIOR TO BACKFILLING AROUND DRAINAGE STRUCTURES, THE AREAS SHALL BE CLEAN OF ALL TRASH AND DEBRIS OF ANY DESCRIPTION. BACKFILL SHALL BE HAND TAMPED IN 12" COMPACTED LIFTS.
7. LANDSCAPE AREAS FINISHED GRADING SHALL BE UNIFORMLY SMOOTH AND CONTOURED TO MEET THE INTENT OF THE GRADING PLAN, AESTHETICALLY PLEASING, DRAIN WELL, AND READY TO RECEIVE SOD AND OTHER PLANT MATERIAL TO FULL SATISFACTION OF THE OWNER.
8. FOR CONTINUATION OF CONDENSATE DRAIN, ROOF DRAIN AND GARAGE DRAIN, REFER TO PLUMB. PLANS.

GRADING AND DRAINAGE PLAN
SCALE: 1" = 20'

REVISIONS

FIDANZA'S FAMILY HOUSE
NEW CONSTRUCTION
11041 SW 77TH AVE, PINECREST, FL 33156



VILLA & ASSOCIATES INC.
ARCHITECTURE - PLANNING - INTERIOR DESIGN
5801 SW 69 AVENUE - MIAMI, FLORIDA 33155
TEL. 305-613-0865 - E-Mail JvillarchitectL@gmail.com
CONSULTANT : JOSE M. DELGADO. P.E. Consulting Civil Engineer
8200 SW 8th STREET, CORAL GABLES FL 33144 - email: JoseMDelgado.PE@gmail.com - phone: (305) 733-8666

DATE: 10-20-2022
SCALE: AS SHOWN
PROJECT NO: Unnamed
DRAWING NO : C-1.0

Miami Dade County Department of Regulatory and Economic Resources - Job Copy
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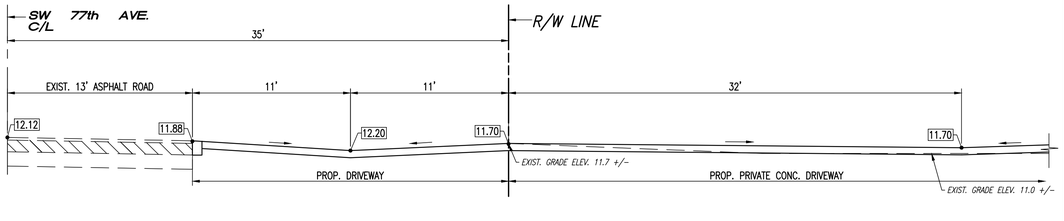
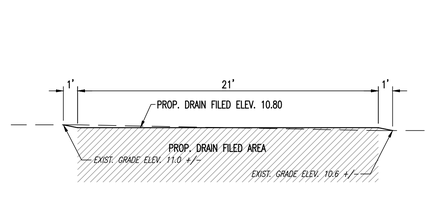


SECTION A–A
SCALE 1" = 5'



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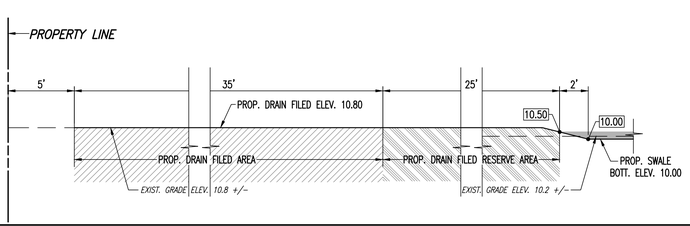

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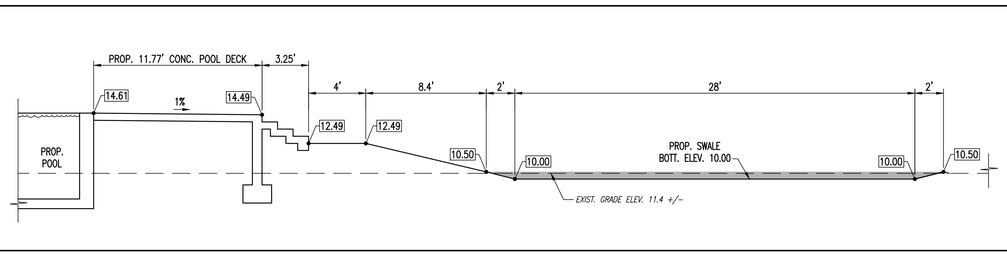

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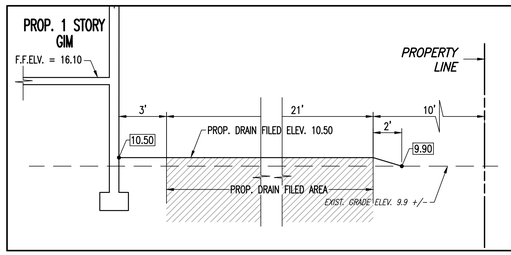
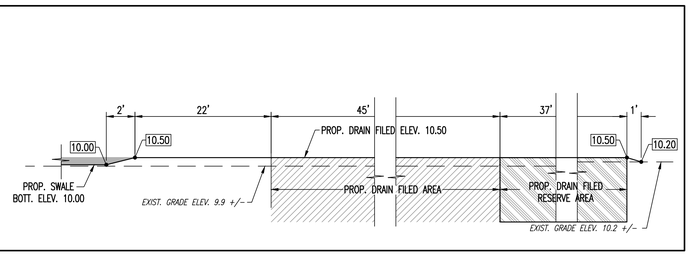
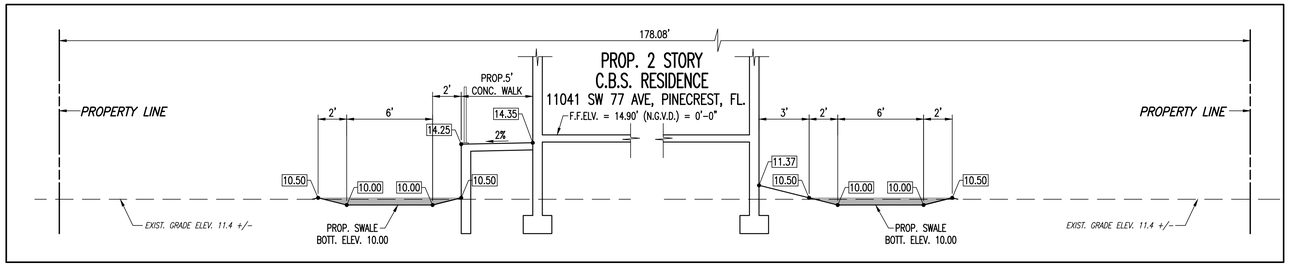


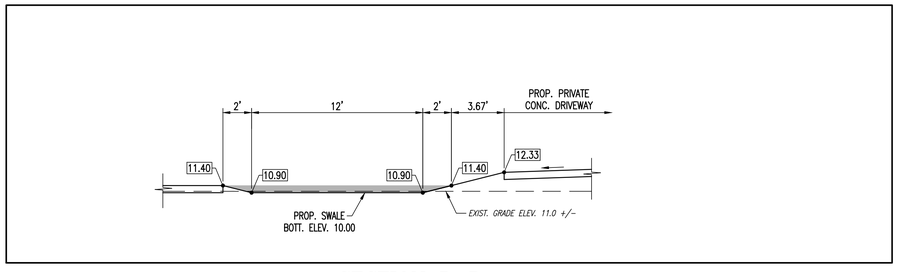
SECTION G–G
SCALE 1" = 5'



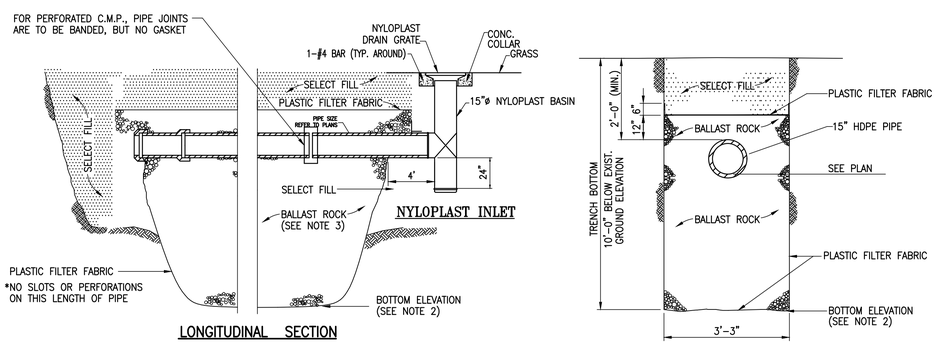
SECTION H–H
SCALE 1" = 5'



SECTION C–C
SCALE 1" = 5'



SECTION D–D
SCALE 1" = 5'



NOTES

1. PLASTIC FILTER FABRIC (AT EACH SIDE) SHALL BE USED IN SANDY AREAS AS NOTED ON PLANS AND/OR AS DIRECTED BY THE ENGINEER.
2. THE BOTTOM OF THE EXFILTRATION TRENCH SHALL BE 8'–0" BELOW EXISTING GROUND ELEVATION, UNLESS FIELD CONDITIONS WARRANT OTHERWISE.
3. AFTER THE BALLAST ROCK HAS BEEN PLACED TO THE PROPER ELEVATION, IT SHALL BE CAREFULLY WASHED DOWN WITH CLEAN WATER IN ORDER TO ALLOW FOR INITIAL SETTLEMENT THAT MAY OCCUR. IF IT DOES TAKE PLACE, ADDITIONAL BALLAST ROCK WILL BE ADDED TO RESTORE THE BALLAST ROCK TO THE PROPER ELEVATION, SO THAT THE EXFILTRATION TRENCH BE COMPLETED IN ACCORDANCE WITH THE DETAILS.

EXFILTRATION TRENCH WITH SAND FILTER

REVISIONS

FIDANZA'S FAMILY HOUSE
NEW CONSTRUCTION
11041 SW 77TH AVE, PINECREST, FL 33156

JOSE M. DELGADO LICENSE No. 68246 STATE OF FLORIDA PROFESSIONAL ENGINEER
Jose M. Delgado
Digitally signed by Jose M. Delgado
Date: 2023.08.24 10:09:59 -04'00'
JOSE M. DELGADO, P.E.
CIVIL ENGINEER
FL. ENG. REG. NO. 68246

VILLA & ASSOCIATES INC.
ARCHITECTURE - PLANNING - INTERIOR DESIGN
5801 SW 69 AVENUE - MIAMI, FLORIDA 33155
TEL. 305-613-0865 - E-Mail Jvillarchitect@gmail.com
CONSULTANT : JOSE M. DELGADO. P.E. Consulting Civil Engineer
5200 SW 8th STREET, CORAL GABLES FL 33134 - email: JoseMDelgado.PE@gmail.com - phone: (305) 733-5695

DATE: 10-20-2022
SCALE: AS SHOWN
PROJECT NO: Unnamed
DRAWING NO : C-1.1

Miami Dade County Department of Regulatory and Economic Resources - Job Copy
2023021890 - 7/9/2024 11:49:47 AM
C-1.1.pdf

MIAMI-DADE COUNTY

DEPARTMENT OF REGULATORY AND ECONOMIC RESOURCES

http://www.miamidade.gov/building/home.asp

1/17/2024 11:17:44 AM

Contact Name:

Contact Email: JULIO.REYESCAPOTE@MIAMIDADE.GOV

Tracking Number: 2023021890

Reviews to rework: OTDS

MIAMI-DADE COUNTY

DEPARTMENT OF REGULATORY AND ECONOMIC RESOURCES

http://www.miamidade.gov/building/home.asp

2/26/2024 7:54:56 AM

Contact Name:

Contact Email: RAYMOND.MURGA@MIAMIDADE.GOV

Tracking Number: 2023021890

Reviews to rework: DERM,OTDS

MIAMI-DADE COUNTY

DEPARTMENT OF REGULATORY AND ECONOMIC RESOURCES

http://www.miamidade.gov/building/home.asp

5/14/2024 2:57:52 PM

Contact Name:

Contact Email: ZAREEFA.ABDUL@MIAMIDADE.GOV

Tracking Number: 2023021890

Reviews to rework: HRS

MIAMI-DADE COUNTY

DEPARTMENT OF REGULATORY AND ECONOMIC RESOURCES

http://www.miamidade.gov/building/home.asp

5/14/2024 3:01:07 PM

Contact Name:

Contact Email: ZAREEFA.ABDUL@MIAMIDADE.GOV

Tracking Number: 2023021890

Reviews to rework: HRS

MIAMI-DADE COUNTY

DEPARTMENT OF REGULATORY AND ECONOMIC RESOURCES

http://www.miamidade.gov/building/home.asp

9/29/2023 12:47:02 PM

Contact Name:

Contact Email: ISMAEL.FERNANDEZ@MIAMIDADE.GOV

Tracking Number: 2023021890

Reviews to rework: DPAD

Miami-Dade Department of Regulatory and Economic Resources

CONTACT INFORMATION FOR PERMIT APPLICATION

FIRST NAME *(print clearly)*	LAST NAME *(print clearly)*
HEIDY	CERTAIN
MOBILE PHONE	**OFFICE/HOME PHONE**
786-4442945	

EMAIL *(required so you can be notified on the status of your plans)*
HECA1362@GMAIL.COM

COMMENTS (*If you are submitting a municipal plan, please provide the municipal process number(s) and ensure the municipal application is in the office set of plans.)*
NEW 2 STORY RESIDENCE PINECREST BL2023-1236

PLANS *(check all that apply)*

Please indicate if plans qualify for the following expedited plan reviews:

☐ GOV'T PROJECT/DEPT_____ ☐ GREEN BLDG* *(new construction only)* ☐ PACE PROJECT*
☐ AFFORDABLE/WORKFORCE HOUSING* ☐ ECONOMIC SIGNIFICANCE* ☐ CONCIERGE

(*Pursuant to Ordinance 99-140; Ordinance 05-115; and Ordinance 08-51. Project may have additional requirements.)

REQUESTED PLAN REVIEWS *(check all that apply for rework only)*

☐ ALL	☐ BLDG/HCAP	☐ ELEC	☐ ENRG	☐ FIRE	☐ ROOF
☐ LANDSCAPING	☐ MECH	☐ PLUM	☐ PWKS	☐ PWCC	☐ SIGN
☐ STRU	☐ ZNPR	☐ WASD	☐ PWIF	☐ LPGX	☐ SHOP DRAWING
☐ DERM CORE	☐ DERM AIR	☐ DERM AIRPORT	☐ DERM ASBESTOS	☐ DERM COASTAL	☐ DERM FLOOD
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☐ DERM TANKS	☐ DERM TREES	☐ DERM WATER TREATMENT	☐ DERM WETLANDS	☐ PERMIT BY AFFIDAVIT CHECK	☐ SHORT TERM EVENT AFFIDAVIT CHECK
☐ DOH/HRS					

OPTIONAL PLAN REVIEWS *(check all that apply)*

☐ BLDG ☐ ELEC ☐ MECH ☐ PLUM ☐ STRU

OPR DERM **INITIAL** REVIEWS *(check all that apply)*

☐ DERM CORE ☐ DERM SPECIALTY *(You will be notified after core review is complete for additional fees)*

OPR DERM **REWORK** *(OPR for specialty only available at PIC)*

☐ TREE	☐ GREASE	☐ ASBESTOS	☐ COASTAL	☐ AIR	☐ PAVING & DRAINAGE
☐ TANKS	☐ INDUSTRIAL	☐ WETLAND	☐ PRE-TREATMENT	☐ CORE	☐ FLOOD

FOR OFFICE USE ONLY

To be completed by Permit and Occupancy Representative or Plans Processing Specialist

APPLICATION DATE	CLERK NAME	ARRIVAL TIME
9/7/23		
PROCESS NUMBER	**PROCESS NUMBER**	**PROCESS NUMBER**

☐ RE-ISSUE ☐ PLAN REVISION ☐ REWORK ☐ SHOP DRAWING

Miami-Dade Department of Regulatory and Economic Resources

CONTACT INFORMATION FOR PERMIT APPLICATION

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HEIDY	CERTAIN
MOBILE PHONE	**OFFICE/HOME PHONE**
786-4442945	

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HECA1362@GMAIL.COM

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FOR OFFICE USE ONLY

To be completed by Permit and Occupancy Representative or Plans Processing Specialist

APPLICATION DATE	CLERK NAME	ARRIVAL TIME
9/29/23		
PROCESS NUMBER	**PROCESS NUMBER**	**PROCESS NUMBER**
M2023021890		

☐ RE-ISSUE ☐ PLAN REVISION ☐ REWORK ☐ SHOP DRAWING

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CONTACT SHEET_V2.pdf

Miami-Dade Department of Regulatory and Economic Resources

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HEIDY	CERTAIN
MOBILE PHONE	**OFFICE/HOME PHONE**
786-4442945	

EMAIL *(required so you can be notified on the status of your plans)*
HECA1362@GMAIL.COM

COMMENTS (***If you are submitting a municipal plan, please provide the municipal process number(s) and ensure the municipal application is in the office set of plans.)***

PLANS *(check all that apply)*

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☐ AFFORDABLE/WORKFORCE HOUSING* ☐ ECONOMIC SIGNIFICANCE* ☐ CONCIERGE

(*Pursuant to Ordinance 99-140; Ordinance 05-115; and Ordinance 08-51. Project may have additional requirements.)

Further, under the penalty of perjury, I, being first duly sworn, depose and say that I have read the foregoing application and that the facts stated herein are accurate and true, including any boxes checked. I further acknowledge that this application and affidavit is subject to penalties of perjury, and acknowledge that Miami-Dade County reserves the right to revoke, cancel, void, or suspend, any permit issued pursuant to any application that contains any materially false or fraudulent statements, and acknowledge that continued operation of the uses after the permit is revoked, canceled, voided, or suspended, may subject me to enforcement penalties allowed by law. I further acknowledge that any application that contains any materially false or fraudulent statements may subject me to additional permitting fees including fees for expedited plan review services.

REQUESTED PLAN REVIEWS *(check all that apply for rework only)*

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☐ DOH/HRS	☑ DERM OSTD				

OPTIONAL PLAN REVIEWS *(check all that apply)*

☐ BLDG ☐ ELEC ☐ MECH ☐ PLUM ☐ STRU

OPR DERM **INITIAL** REVIEWS *(check all that apply)*

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FOR OFFICE USE ONLY *(to be completed by Permitting Staff)*

APPLICATION DATE	CLERK NAME	ARRIVAL TIME
1/17/24		
PROCESS NUMBER	**PROCESS NUMBER**	**PROCESS NUMBER**
M2023021890		

☐ RE-ISSUE ☐ PLAN REVISION ☐ REWORK ☐ SHOP DRAWING

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Miami-Dade Department of Regulatory and Economic Resources

CONTACT INFORMATION FOR PERMIT APPLICATION

FIRST NAME *(print clearly)*	LAST NAME *(print clearly)*
Jorge	Millan
MOBILE PHONE	**OFFICE/HOME PHONE**
786-488-8657	305-885-5255

EMAIL *(required so you can be notified on the status of your plans)*
info@empireesc.com

COMMENTS (*If you are submitting a municipal plan, please provide the municipal process number(s) and ensure the municipal application is in the office set of plans.)*

M2023021890

PLANS *(check all that apply)*

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☐ AFFORDABLE/WORKFORCE HOUSING* ☐ ECONOMIC SIGNIFICANCE* ☐ CONCIERGE

(*Pursuant to Ordinance 99-140; Ordinance 05-115; and Ordinance 08-51. Project may have additional requirements.)

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☑ DOH/HRS					

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APPLICATION DATE	CLERK NAME	ARRIVAL TIME
2/21/24		
PROCESS NUMBER	**PROCESS NUMBER**	**PROCESS NUMBER**
M2023021890		

☐ RE-ISSUE ☐ PLAN REVISION ☐ REWORK ☐ SHOP DRAWING

Miami-Dade Department of Regulatory and Economic Resources

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FIRST NAME *(print clearly)*	LAST NAME *(print clearly)*
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MOBILE PHONE	**OFFICE/HOME PHONE**
786-488-8657	305-885-5255

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info@empireesc.com

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M2023021890

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☑ DOH/HRS					

OPTIONAL PLAN REVIEWS *(check all that apply)*

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FOR OFFICE USE ONLY

To be completed by Permit and Occupancy Representative or Plans Processing Specialist

APPLICATION DATE	CLERK NAME	ARRIVAL TIME
4/21/24		
PROCESS NUMBER	**PROCESS NUMBER**	**PROCESS NUMBER**
M2023021890		

☐ RE-ISSUE ☐ PLAN REVISION ☐ REWORK ☐ SHOP DRAWING

Herbert S. Saffir Permitting and Inspection Center, 11805 SW 26th Street, Miami, Florida 33175-2474 T 786-315-2100 miamidade.gov/permits

123_01-249 6/20

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DETERMINATION OF OSTDS TYPE AND STANDARDS PER SECTION 24-42.7

GROSS LOT SIZE = _____ FT^2 = _____ ACRES
LAND USE: _____
GROSS BUILDING AREA = _____ FT^2
SEWAGE FLOW = _____ GPD
SEWAGE LOADING = _____ GPD / _____ ACRES = _____ GPD/ACRE

Y	N	CRITERIA FOR OSTDS TYPE SELECTION
		PROPERTY WILL BE SERVED BY PUBLIC WATER
		PROPERTY COMPLETELY OUTSIDE WELLFIELD PROTECTION AREA
		SURFACE WATER BODIES BEYOND 1000 FEET
		SEWAGE FLOW IS LESS THAN 500 GPD FOR SFR /DUPLEX
		SEWAGE FLOW IS LESS THAN 1000 GPD FOR MULTI-FAMILY/OTHER USES
		SEWAGE LOADING LESS THAN 500 GPD/ACRE

Y	N	OTHER CONSIDERATIONS FOR OSTDS APPROVAL
		SANITARY SEWERS NOT AVAILABLE, ABUTTING, OR OPERATIVE
		SYSTEM WILL SERVE ONLY ONE LOT
		PROPERTY LINES OVER 50 FEET FROM OSTDS FOR PROPERTIES SERVED BY A POTABLE WATER WELL

TYPE OF SYSTEM REQUIRED : _____
TOTAL NITROGEN TREATED BY : _____
TOTAL PHOSPHORUS TREATED BY : _____
FECAL COLIFORM TREATED BY : _____
SOURCE OF TREATMENT STANDARDS : _____

TREATMENT STANDARDS		
POLLUTANT	**REQUIRED (mg/L) (ANNUAL AVERAGE)**	**PROPOSED (mg/L) (ANNUAL AVERAGE)**
$CBOD_5$		
TSS		
TN		
TP		
FECAL COLIFORM (cfu/100ml)		

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DERM SitePlan Boxes.pdf

OSTDS CALCULATIONS PER CHAPTER 62-6 F.A.C.

NET LOT SIZE = _____ FT^2 = _____ ACRES
LAND USE: _____
BUILDING AREA = _____ FT^2

SEWAGE FLOW

MAXIMUM SEWAGE LOADING ALLOWANCE = ____ GPD/ACRE (1,500 GPD/ACRE OR 2,500 GPD/ACRE)
AUTHORIZED SEWAGE FLOW = _____ GPD/ACRE x _____ ACRES = _____ GPD
UNIT FLOW CRITERIA (PER TABLE 1) : _____
SEWAGE FLOW PER UNIT FLOW = _____
TOTAL SEWAGE FLOW = _____ GPD

TREATMENT TANK AND DRAINFIELD

PROPOSED SYSTEM : _____
MINIMUM REQUIRED TREATMENT CAPACITY = _____ GPD
DRAINFIELD CONFIGURATION : _____
DRAINFIELD TYPE : _____
DRAINFIELD MATERIAL : _____
MAXIMUM SEWAGE LOADING RATE FOR THE PROPOSED DRAINFIELD = _____ GAL/FT^2DAY
DRAINFIELD SIZE = _____ GPD / _____ GAL/FT^2DAY = _____ FT^2

SEPARATION BETWEEN THE SHWT AND BOTTOM OF THE DRAINFIELD (ELEVATIONS IN NAVD 88)

GRADE ELEVATION = _____ FT
SEASONAL HIGH WATER TABLE ELEVATION = _____ FT
ELEVATION AT THE BOTTOM OF THE DRAINFIELD = _____ FT
SEPARATION BETWEEN SHWT AND BOTTOM OF DRAINFIELD = ____ INCHES

Miami Dade County Department of Regulatory and Economic Resources - Job Copy
2023021890 - 7/9/2024 11:49:47 AM
DERM SitePlan Boxes.pdf

STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
ONSITE SEWAGE TREATMENT AND DISPOSAL SYSTEM (OSTDS)

PERMIT NO. _____
DATE PAID: _____
FEE PAID: _____
RECEIPT #: _____

APPLICATION FOR CONSTRUCTION PERMIT

APPLICATION FOR:
[X] New System [ ] Existing System [ ] Holding Tank [ ] Innovative
[ ] Repair [ ] Abandonment [ ] Temporary [ ] _____

APPLICANT: PAOLO FIDANZA EMAIL: INFO@EMPIREESC.COM

AGENT: EMPIRE ENGINEERING SERVICES / ERNESTO SANTANA, P.E. TELEPHONE: 305 8855255

MAILING ADDRESS: 9370 SW 72 ST SUITE A107 MIAMI, FL 33173

==========

TO BE COMPLETED BY APPLICANT OR APPLICANT'S AUTHORIZED AGENT. SYSTEMS MUST BE CONSTRUCTED BY A PERSON LICENSED PURSUANT TO 489.105(3)(m) OR 489.552, FLORIDA STATUTES. IT IS THE APPLICANT'S RESPONSIBILITY TO PROVIDE DOCUMENTATION OF THE DATE THE LOT WAS CREATED OR PLATTED (MM/DD/YY) IF REQUESTING CONSIDERATION OF STATUTORY GRANDFATHER PROVISIONS.

==========

PROPERTY INFORMATION OSTDS REMEDIATION PLAN? [Y / N]

LOT: N/A BLOCK: N/A SUBDIVISION: 11 55 40 PLATTED: 2006

PROPERTY ID #: 20-5011-000-0390 ZONING: SFR I/M OR EQUIVALENT: [Y / N]

PROPERTY SIZE: 1.59 ACRES WATER SUPPLY: [X] PRIVATE PUBLIC [ ]<=2000GPD [ ]>2000GPD

IS SEWER AVAILABLE AS PER 381.0065, FS? [Y / N] DISTANCE TO SEWER: N/A FT

PROPERTY ADDRESS: 11041 SW 77 AVE PINECREST, FL 33156.

DIRECTIONS TO PROPERTY: SW 77 AVE S TO PROERTY.

BUILDING INFORMATION [X] RESIDENTIAL [ ] COMMERCIAL

Unit No	Type of Establishment	No. of Bedrooms	Building Area Sqft	Commercial/Institutional System Design Table I, Chapter 62-6, FAC
1	SFR	8	11814	SYSTEM # 1 40 F.U
2				
3				
4				

[ ] Floor/Equipment Drains [ ] Other (Specify) _____

SIGNATURE: Ernesto Santana P.E. Lic.: 60788 DATE: 1/25/24

ERNESTO SANTANA LICENSE No. 60788 STATE OF FLORIDA PROFESSIONAL ENGINEER

Miami Dade County Department of Regulatory and Economic Resources - Job Copy
2023021890 - 7/9/2024 11:39:47 AM P.E.
dh 4015 PAGE 1 SIGNED SYSTEM 1.pdf
Examiner Date Time Stamp Trade Stamp Name
FLORES, ANA 3/1/2024 11:19:05 AM HRS Disapproved
FLORES, ANA 5/23/2024 3:45:00 PM HRS Void

STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
ONSITE SEWAGE TREATMENT AND DISPOSAL SYSTEM (OSTDS)

PERMIT NO. _____
DATE PAID: _____
FEE PAID: _____
RECEIPT #: _____

APPLICATION FOR CONSTRUCTION PERMIT

APPLICATION FOR:
[X] New System [ ] Existing System [ ] Holding Tank [ ] Innovative
[ ] Repair [ ] Abandonment [ ] Temporary [ ] _____

APPLICANT: PAOLO FIDANZA EMAIL: INFO@EMPIREESC.COM

AGENT: EMPIRE ENGINEERING SERVICES / ERNESTO SANTANA, P.E. TELEPHONE: 305 8855255

MAILING ADDRESS: 9370 SW 72 ST SUITE A107 MIAMI, FL 33173

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PROPERTY INFORMATION OSTDS REMEDIATION PLAN? [Y / N]

LOT: N/A BLOCK: N/A SUBDIVISION: 11 55 40 PLATTED: 2006

PROPERTY ID #: 20-5011-000-0390 ZONING: SFR I/M OR EQUIVALENT: [Y / N]

PROPERTY SIZE: 1.59 ACRES WATER SUPPLY: [X] PRIVATE PUBLIC [ ]<=2000GPD [ ]>2000GPD

IS SEWER AVAILABLE AS PER 381.0065, FS? [Y / N] DISTANCE TO SEWER: N/A FT

PROPERTY ADDRESS: 11041 SW 77 AVE PINECREST, FL 33156.

DIRECTIONS TO PROPERTY: SW 77 AVE S TO PROERTY.

BUILDING INFORMATION [X] RESIDENTIAL [ ] COMMERCIAL

Unit No	Type of Establishment	No. of Bedrooms	Building Area Sqft	Commercial/Institutional System Design Table I, Chapter 62-6, FAC
1	SFR	8	11814	SYSTEM # 2 29 F.U
2				
3				
4				

[ ] Floor/Equipment Drains [ ] Other (Specify) _____

SIGNATURE: Ernesto Santana P.E. Lic.: 60788 DATE: 2/7/24

ERNESTO SANTANA LICENSE No. 60788 STATE OF FLORIDA PROFESSIONAL ENGINEER

Miami Dade County Department of Regulatory and Economic Resources - Job Copy
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dh 4015 PAGE 1 SIGNED SYSTEM 2.pdf
Examiner Date Time Stamp Trade Stamp Name
FLORES, ANA 3/1/2024 11:19:16 AM HRS Disapproved
FLORES, ANA 5/23/2024 3:44:45 PM HRS Void

STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
ONSITE SEWAGE TREATMENT AND DISPOSAL SYSTEM (OSTDS)

PERMIT NO. _____
DATE PAID: _____
FEE PAID: _____
RECEIPT #: _____

APPLICATION FOR CONSTRUCTION PERMIT

APPLICATION FOR:

[X] New System [ ] Existing System [ ] Holding Tank [ ] Innovative
[ ] Repair [ ] Abandonment [ ] Temporary [ ] _____

APPLICANT: PAOLO FIDANZA **EMAIL:** INFO@EMPIREESC.COM

AGENT: EMPIRE ENGINEERING SERVICES **TELEPHONE:** 305 8855255

MAILING ADDRESS: 9370 SW 72 ST SUITE A107 MIAMI, FL 33173

==========

TO BE COMPLETED BY APPLICANT OR APPLICANT'S AUTHORIZED AGENT. SYSTEMS MUST BE CONSTRUCTED BY A PERSON LICENSED PURSUANT TO 489.105(3)(m) OR 489.552, FLORIDA STATUTES. IT IS THE APPLICANT'S RESPONSIBILITY TO PROVIDE DOCUMENTATION OF THE DATE THE LOT WAS CREATED OR PLATTED (MM/DD/YY) IF REQUESTING CONSIDERATION OF STATUTORY GRANDFATHER PROVISIONS.

==========

PROPERTY INFORMATION **OSTDS REMEDIATION PLAN? [Y / N]**

LOT: N/A **BLOCK:** N/A **SUBDIVISION:** 11 55 40 **PLATTED:** 2006

PROPERTY ID #: 20-5011-000-0390 **ZONING:** SFR **I/M OR EQUIVALENT: [Y / N]**

PROPERTY SIZE: 1.59 **ACRES** **WATER SUPPLY: [X] PRIVATE PUBLIC [ ]<=2000GPD [ ]>2000GPD**

IS SEWER AVAILABLE AS PER 381.0065, FS? [Y / N] **DISTANCE TO SEWER:** N/A **FT**

PROPERTY ADDRESS: 11041 SW 77 AVE PINECREST, FL 33156.

DIRECTIONS TO PROPERTY: SW 77 AVE S TO PROERTY.

BUILDING INFORMATION **[X] RESIDENTIAL** **[ ] COMMERCIAL**

Unit No	Type of Establishment	No. of Bedrooms	Building Area Sqft	Commercial/Institutional System Design Table I, Chapter 62-6, FAC
1	SFR	7	11814	SYSTEM # 1 44 F.U
2				
3				
4				

[ ] Floor/Equipment Drains [ ] Other (Specify) _____

SIGNATURE: Ernesto Santana, P.E. License 60788 **DATE:** 5/07/24

ERNESTO SANTANA LICENSE No. 60788 STATE OF FLORIDA PROFESSIONAL ENGINEER 06-3-2019

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dh 4015 PAGE 1 SYSTEM 1 SIGNED.pdf
Examiner Date Time Stamp Trade Stamp Name
FLORES, ANA 6/14/2024 3:08:59 PM HRS Approved

STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
ONSITE SEWAGE TREATMENT AND DISPOSAL SYSTEM (OSTDS)

PERMIT NO. _____
DATE PAID: _____
FEE PAID: _____
RECEIPT #: _____

APPLICATION FOR CONSTRUCTION PERMIT

APPLICATION FOR:

[X] New System [ ] Existing System [ ] Holding Tank [ ] Innovative
[ ] Repair [ ] Abandonment [ ] Temporary [ ] _____

APPLICANT: PAOLO FIDANZA **EMAIL:** INFO@EMPIREESC.COM

AGENT: EMPIRE ENGINEERING SERVICES **TELEPHONE:** 305 8855255

MAILING ADDRESS: 9370 SW 72 ST SUITE A107 MIAMI, FL 33173

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==========

PROPERTY INFORMATION **OSTDS REMEDIATION PLAN? [Y / N]**

LOT: N/A **BLOCK:** N/A **SUBDIVISION:** 11 55 40 **PLATTED:** 2006

PROPERTY ID #: 20-5011-000-0390 **ZONING:** SFR **I/M OR EQUIVALENT: [Y / N]**

PROPERTY SIZE: 1.59 **ACRES** **WATER SUPPLY: [X] PRIVATE PUBLIC [ ]<=2000GPD [ ]>2000GPD**

IS SEWER AVAILABLE AS PER 381.0065, FS? [Y / N] **DISTANCE TO SEWER:** N/A **FT**

PROPERTY ADDRESS: 11041 SW 77 AVE PINECREST, FL 33156.

DIRECTIONS TO PROPERTY: SW 77 AVE S TO PROERTY.

BUILDING INFORMATION **[X] RESIDENTIAL** **[ ] COMMERCIAL**

Unit No	Type of Establishment	No. of Bedrooms	Building Area Sqft	Commercial/Institutional System Design Table I, Chapter 62-6, FAC
1	SFR	7	11814	SYSTEM # 2 31 F.U
2				
3				
4				

[ ] Floor/Equipment Drains [ ] Other (Specify) _____

SIGNATURE: Ernesto Santana PE Lic. 60788 **DATE:** 06-05-07-2024

ERNESTO SANTANA LICENSE No. 60788 STATE OF FLORIDA PROFESSIONAL ENGINEER

Miami-Dade County Department of Regulatory and Economic Resources Approved
2023021890 - 7/9/2024 11:49:47 AM
dh 4015 PAGE 1 SYSTEM 2 SIGNED.pdf
Examiner Date Time Stamp Trade Stamp Name
FLORES, ANA 6/14/2024 3:08:47 PM HRS Approved

STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
ONSITE SEWAGE TREATMENT AND DISPOSAL SYSTEM
SITE EVALUATION AND SYSTEM SPECIFICATIONS

PERMIT #. _____

APPLICANT: PAOLO FIDANZA AGENT: ERNESTO SANTAN,P.E./ EMPIRE ENGINEERING SERV.

LOT: N/A BLOCK: N/A SUBDIVISION: 11 55 40

PROPERTY ID #: 20-5011-000-0390 [Section/Township/Parcel No. or Tax ID Number]

TO BE COMPLETED BY ENGINEER, HEALTH DEPARTMENT EMPLOYEE OR OTHER QUALIFIED PERSON. ENGINEERS MUST PROVIDE REGISTRATION NUMBER AND SIGN AND SEAL EACH PAGE OF SUBMITTAL. COMPLETE ALL ITEMS.

PROPERTY SIZE CONFORMS TO SITE PLAN: [X] YES [ ] NO NET USABLE AREA AVAILABLE: 1.58 ACRES
TOTAL ESTIMATED SEWAGE FLOW: 650 (~~1120~~) GALLONS PER DAY [TABLE I / OTHER]
AUTHORIZED SEWAGE FLOW: 2384 GALLONS PER DAY [1500 GPD/ACRE OR 2500 GPD/ACRE]
UNOBSTRUCTED AREA AVAILABLE: 1219 SQFT UNOBSTRUCTED AREA REQUIRED: ~~1219~~ SQFT

BENCHMARK/REFERENCE POINT LOCATION: NW C/L OF SW 77 AVE 12.12' N.G.V.D
ELEVATION OF PROPOSED SYSTEM SITE IS 27.84 [INCHES/FT] [ABOVE/BELOW] BENCHMARK/REFERENCE POINT

THE MINIMUM SETBACK WHICH CAN BE MAINTAINED FROM THE PROPOSED SYSTEM TO THE FOLLOWING FEATURES
SURFACE WATER: N/A FT DITCHES/SWALES: 15.0 FT NORMALLY WET? [ ] YES [✓] NO
WELLS: PUBLIC: N/A FT LIMITED USE: N/A FT PRIVATE: 161 FT NON-POTABLE: N/A FT
BUILDING FOUNDATIONS: 5 FT PROPERTY LINES: 9.2 FT POTABLE WATER LINES: 113.7 FT

SITE SUBJECT TO FREQUENT FLOODING: [ ] YES [✓] NO 10 YEAR FLOODING? [ ] YES [✓] NO
10 YEAR FLOOD ELEVATION FOR SITE: N/A FT MSL/NGVD SITE ELEVATION: 9.8 FT MSL/NGVD

W.T4.5 NGVD

SOIL PROFILE INFORMATION SITE 1

MUNSELL #/COLOR	TEXTURE	DEPTH
10 Yr 4-3	SANDY LOAM	0" TO
BROWN		TO 16"
10 YR 7-6	LIME STONE	16" TO 16"
YELLOW		TO
	REFUSAL	16" TO
		TO
		TO
		TO
		TO

USDA SOIL SERIES: UDORTHENTS

SOIL PROFILE INFORMATION SITE 2

MUNSELL #/COLOR	TEXTURE	DEPTH
10 Yr 4-3	SANDY LOAM	0" TO
BROWN		TO 16"
10 YR 7-6	LIME LINE STONE	16" TO
YELLOW		TO
	REFUSAL	16" TO
		TO
		TO
		TO
		TO

USDA SOIL SERIES: UDORTHENTS

OBSERVED WATER TABLE: INCHES [ABOVE / BELOW] EXISTING GRADE. TYPE: [PERCHED / APPARENT] ESTIMATED
WET SEASON WATER TABLE ELEVATION: 63.6 INCHES [ABOVE / BELOW] EXISTING GRADE
HIGH WATER TABLE VEGETATION: [ ] YES [✓] NO WSWT Indicator: [ ] YES [X] NO DEPTH: N/A INCHES

SOIL TEXTURE/LOADING RATE FOR SYSTEM SIZING: .8 DEPTH OF EXCAVATION: ~~72~~ INCHES
DRAINFIELD CONFIGURATION: [✓] TRENCH [ ] BED [ ] OTHER (SPECIFY)
REMARKS/ADDITIONAL CRITERIA:

SYSTEM #1 40 F.U

SITE EVALUATED BY: Ernesto Santana P.E. Lic. 60788 DATE: 2/7/24

ERNESTO SANTANA LICENSE No. 60788 STATE OF FLORIDA PROFESSIONAL ENGINEER

DEP 4015, 06-21-2022 (Obsoletes previous editions which may not be used)
Incorporated: 62-6.004 FAC

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dh 4015 PAGE 3 SIGNED SYSTEM 1.pdf
Examiner Date Time Stamp Trade Stamp Name
FLORES, ANA 3/1/2024 11:37:03 AM HRS Disapproved
FLORES, ANA 5/23/2024 3:45:19 PM HRS Void

STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
ONSITE SEWAGE TREATMENT AND DISPOSAL SYSTEM
SITE EVALUATION AND SYSTEM SPECIFICATIONS

PERMIT #. _____

APPLICANT: PAOLO FIDANZA AGENT: ERNESTO SANTAN,P.E./ EMPIRE ENGINEERING SERV.

LOT: N/A BLOCK: N/A SUBDIVISION: 11 55 40

PROPERTY ID #: 20-5011-000-0390 [Section/Township/Parcel No. or Tax ID Number]

TO BE COMPLETED BY ENGINEER, HEALTH DEPARTMENT EMPLOYEE OR OTHER QUALIFIED PERSON. ENGINEERS MUST PROVIDE REGISTRATION NUMBER AND SIGN AND SEAL EACH PAGE OF SUBMITTAL. COMPLETE ALL ITEMS.

PROPERTY SIZE CONFORMS TO SITE PLAN: [X] YES [ ] NO NET USABLE AREA AVAILABLE: 1.58 ACRES
TOTAL ESTIMATED SEWAGE FLOW: 471 (1120) GALLONS PER DAY [TABLE I / OTHER]
AUTHORIZED SEWAGE FLOW: 2384 GALLONS PER DAY [1500 GPD/ACRE OR 2500 GPD/ACRE]
UNOBSTRUCTED AREA AVAILABLE: 884 SQFT UNOBSTRUCTED AREA REQUIRED: 884 SQFT

BENCHMARK/REFERENCE POINT LOCATION: NW C/L OF SW 77 AVE 12.12' N.G.V.D
ELEVATION OF PROPOSED SYSTEM SITE IS 13.44 [INCHES/FT] [ABOVE/BELOW] BENCHMARK/REFERENCE POINT

THE MINIMUM SETBACK WHICH CAN BE MAINTAINED FROM THE PROPOSED SYSTEM TO THE FOLLOWING FEATURES
SURFACE WATER: N/A FT DITCHES/SWALES: 23.4 FT NORMALLY WET? [ ] YES [✓] NO
WELLS: PUBLIC: N/A FT LIMITED USE: N/A FT PRIVATE: 209.4 FT NON-POTABLE: N/A FT
BUILDING FOUNDATIONS: 5.0 FT PROPERTY LINES: 5.75 FT POTABLE WATER LINES: 157.6 FT

SITE SUBJECT TO FREQUENT FLOODING: [ ] YES [✓] NO 10 YEAR FLOODING? [ ] YES [✓] NO
10 YEAR FLOOD ELEVATION FOR SITE: N/A FT MSL/NGVD SITE ELEVATION: 11.0 FT MSL/NGVD

W.T4.5 NGVD

SOIL PROFILE INFORMATION SITE 1

MUNSELL #/COLOR	TEXTURE	DEPTH
10 Yr 4-3	SANDY LOAM	0" TO
BROWN		TO 16"
10 YR 7-6	LIME STONE	16" TO 16"
YELLOW		TO
	REFUSAL	16" TO
		TO
		TO
		TO
		TO

USDA SOIL SERIES: UDORTHENTS

SOIL PROFILE INFORMATION SITE 2

MUNSELL #/COLOR	TEXTURE	DEPTH
10 Yr 4-3	SANDY LOAM	0" TO
BROWN		TO 16"
10 YR 7-6	LIME LINE STONE	16" TO
YELLOW		TO
	REFUSAL	16" TO
		TO
		TO
		TO
		TO

USDA SOIL SERIES: UDORTHENTS

OBSERVED WATER TABLE: INCHES [ABOVE / BELOW] EXISTING GRADE. TYPE:[PERCHED / APPARENT] ESTIMATED
WET SEASON WATER TABLE ELEVATION: 78 INCHES [ABOVE / BELOW] EXISTING GRADE

HIGH WATER TABLE VEGETATION: [ ] YES [✓] NO WSWT Indicator: [ ] YES [x] NO DEPTH: N/A INCHES

SOIL TEXTURE/LOADING RATE FOR SYSTEM SIZING: .8 DEPTH OF EXCAVATION: 72 INCHES
DRAINFIELD CONFIGURATION: [✓] TRENCH [ ] BED [ ] OTHER (SPECIFY) _____
REMARKS/ADDITIONAL CRITERIA:

SYSTEM #2 29 F.U

SITE EVALUATED BY: _____ DATE: 1/25/24

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2023021890 - 7/9/2024 11:49:47 AM
dh 4015 PAGE 3 SIGNED SYSTEM 2.pdf
Examiner Date Time Stamp Trade Stamp Name
FLORES, ANA 3/1/2024 11:41:24 AM HRS Disapproved
FLORES, ANA 5/23/2024 3:45:02 PM HRS Void

INSTRUCTIONS:

PERMIT #:	Permit tracking number assigned by County Health Department.
APPLICANT:	Property owner's full name.
AGENT:	Property owner's legally authorized representative.
LOT, BLOCK, SUBDIVISION:	Lot, block, and subdivision for lot.
PROPERTY ID#:	27-character number for property (property appraiser ID # or section/township/range/parcel number).
PROPERTY SIZE:	Check if property size at site conforms to submitted site plan and legal description.
NET USABLE AREA:	Record net usable area available per Rule 62-6.005(7)(c), F.A.C. Net usable area does not include paved areas and prepared road beds within public rights-of-way or easements and does not include surface water bodies. Contiguous unpaved and non-compacted road rights-of-way and easements with no subsurface obstructions that would affect the operation of drainfield systems may be included.
SEWAGE FLOW:	Record the total estimated sewage flow for the establishment from Chapter 62-6.008(1)(a) or (b), F.A.C. Record the authorized sewage flow for the lot based on net usable area and water supply (1500 gallons per day per acre for private water supplies and 2500 gallons per day per acre for public water supplies). If authorized sewage flow does not equal or exceed the estimated sewage flow, the application must be denied.
UNOBSTRUCTED AREA:	Record the square feet of unobstructed area available and the amount required. Unobstructed area must be at least 1.5 times as large as the drainfield absorption area and must meet minimum setbacks in Chapter 62-6, FAC. The unobstructed area must be contiguous to the drainfield.
BENCHMARK INFORMATION:	Record the location of the benchmark. If using a surveyor's benchmark record the actual elevation. Record the elevation of the proposed system site in relation (above or below) to the benchmark for the most restrictive profile.
MINIMUM SETBACKS:	Record minimum setbacks which can be met to all listed features. Actual measurements must be recorded or "NA" for non- applicable features. Features on site plan or within 75 feet of the applicant lot must be measured. The location of any public drinking well within 200 feet of the applicant's lot must also be verified.
FLOOD INFORMATION:	Record information on lot's subject to flooding. For lots subject to flooding record 10 year flood elevation for site and actual site elevation.
SOIL PROFILE INFORMATION:	Two soil profiles within the proposed absorption area to a minimum depth of 6 feet or refusal are required. Soil identification will use USDA Soil Classification methodology (Munsell colors and USDA soil textures). Refusals must be clearly documented. Provide USDA soil series if available, record "UNK" if the series cannot be determined.
WATER TABLE:	Record the depth of the observed water table at the time of the evaluation. Mark "perched" or "apparent" as appropriate. Record the estimated wet season water table (WSWT) elevation based on site evaluation, USDA soil maps, and historical information. Indicate if there is high water table vegetation present and list in comments. Indicate presence and depth of shallowest WSWT indicator.
SOIL TEXTURE:	Record soil texture or loading rate for system sizing based on the most restrictive profile.
DEPTH OF EXCAVATION:	If applicable record depth of excavation required based on the most restrictive profile. Record "NA" if not applicable.
DRAINFIELD CONFIGURATION:	Check drainfield configuration required. If other, specify type.
ADDITIONAL CRITERIA:	Record any additional remarks pertinent to site or installation. Ex. Dosing required and document any WSWT indicators.
SITE EVALUATED BY:	Signature of evaluator, title, and date of evaluation. Professional engineers must seal all documentation submitted.

ELEVATION WORKSHEET ELEVATION OF BENCHMARK / REFERENCE POINT IS: _____

BENCHMARK _____	SITE 1	SITE 2	SITE 3
[+] SHOT	H.I.	H.I.	H.I. _____
[-] SHOT _____	[+] SHOT _____	[+] SHOT _____	[+] SHOT _____
	[-] SHOT _____	[-] SHOT _____	[-] SHOT _____

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Examiner Date Time Stamp Trade Stamp Name
FLORES, ANA 3/1/2024 11:41:24 AM HRS Disapproved
FLORES, ANA 5/23/2024 3:45:02 PM HRS Void

STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
ONSITE SEWAGE TREATMENT AND DISPOSAL SYSTEM
SITE EVALUATION AND SYSTEM SPECIFICATIONS

PERMIT #. _____

APPLICANT: PAOLO FIDANZA AGENT: EMPIRE ENGINEERING SERV.

LOT: N/A BLOCK: N/A SUBDIVISION: 11 55 40

PROPERTY ID #: 20-5011-000-0390 [Section/Township/Parcel No. or Tax ID Number]

TO BE COMPLETED BY ENGINEER, HEALTH DEPARTMENT EMPLOYEE OR OTHER QUALIFIED PERSON. ENGINEERS MUST PROVIDE REGISTRATION NUMBER AND SIGN AND SEAL EACH PAGE OF SUBMITTAL. COMPLETE ALL ITEMS.

PROPERTY SIZE CONFORMS TO SITE PLAN: [X] YES [ ] NO NET USABLE AREA AVAILABLE: 1.58 ACRES
TOTAL ESTIMATED SEWAGE FLOW: 650 (1120) GALLONS PER DAY [TABLE I / OTHER]

AUTHORIZED SEWAGE FLOW: 2384 GALLONS PER DAY [1500 GPD/ACRE OR 2500 GPD/ACRE]
UNOBSTRUCTED AREA AVAILABLE: 1219 SQFT UNOBSTRUCTED AREA REQUIRED: 1219 SQFT

BENCHMARK/REFERENCE POINT LOCATION: NW C/L OF SW 77 AVE 12.12' N.G.V.D
ELEVATION OF PROPOSED SYSTEM SITE IS 27.84 [INCHES/FT] [ABOVE/BELOW] BENCHMARK/REFERENCE POINT

THE MINIMUM SETBACK WHICH CAN BE MAINTAINED FROM THE PROPOSED SYSTEM TO THE FOLLOWING FEATURES
SURFACE WATER: N/A FT DITCHES/SWALES: N/A FT NORMALLY WET? [ ] YES [✓] NO
WELLS: PUBLIC: N/A FT LIMITED USE: N/A FT PRIVATE: 161 FT NON-POTABLE: N/A FT
BUILDING FOUNDATIONS: 5 FT PROPERTY LINES: 9.2 FT POTABLE WATER LINES: 113.7 FT

SITE SUBJECT TO FREQUENT FLOODING: [ ] YES [✓] NO 10 YEAR FLOODING? [ ] YES [✓] NO
10 YEAR FLOOD ELEVATION FOR SITE: N/A FT MSL/NGVD SITE ELEVATION: 9.8 FT MSL/NGVD

W.T4.5 NGVD

SOIL PROFILE INFORMATION SITE 1

MUNSELL #/COLOR	TEXTURE	DEPTH
10 Yr 4-3	SANDY LOAM	0" TO
BROWN		TO 16"
10 YR 7-6	LIME STONE	16" TO 16"
YELLOW		TO
	REFUSAL	16" TO
		TO
		TO
		TO
		TO

USDA SOIL SERIES: UDORTHENTS

SOIL PROFILE INFORMATION SITE 2

MUNSELL #/COLOR	TEXTURE	DEPTH
10 Yr 4-3	SANDY LOAM	0" TO
BROWN		TO 16"
10 YR 7-6	LIME LINE STONE	16" TO
YELLOW		TO
	REFUSAL	16" TO
		TO
		TO
		TO
		TO

USDA SOIL SERIES: UDORTHENTS

OBSERVED WATER TABLE: INCHES [ABOVE / BELOW] EXISTING GRADE. TYPE: [PERCHED / APPARENT] ESTIMATED
WET SEASON WATER TABLE ELEVATION: 63.6 INCHES [ABOVE / BELOW] EXISTING GRADE

HIGH WATER TABLE VEGETATION: [ ] YES [✓] NO WSWT Indicator: [ ] YES [X] NO DEPTH: N/A INCHES

SOIL TEXTURE/LOADING RATE FOR SYSTEM SIZING: .8 DEPTH OF EXCAVATION: 72 INCHES
DRAINFIELD CONFIGURATION: [✓] TRENCH [ ] BED [ ] OTHER (SPECIFY) _____
REMARKS/ADDITIONAL CRITERIA:
SYSTEM #1 44 F.U

ERNESTO SANTANA LICENSE No. 60788 STATE OF FLORIDA PROFESSIONAL ENGINEER

SITE EVALUATED BY: Ernesto Santana P.E. Lic.: 60788 DATE: 5/07/24

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dh 4015 PAGE 3 SYSTEM 1 SIGNED.pdf
DERM 4015 05-21-2022 (Obsolete previous editions which may not be used)
Examiner Date Time Stamp Trade Stamp Name
FLORES, ANA 6/14/2024 2:07:47 PM HRS Approved

STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
ONSITE SEWAGE TREATMENT AND DISPOSAL SYSTEM
SITE EVALUATION AND SYSTEM SPECIFICATIONS

PERMIT #. _____

APPLICANT: PAOLO FIDANZA **AGENT:** EMPIRE ENGINEERING SERV.

LOT: N/A **BLOCK:** N/A **SUBDIVISION:** 11 55 40

PROPERTY ID #: 20-5011-000-0390 **[Section/Township/Parcel No. or Tax ID Number]**

TO BE COMPLETED BY ENGINEER, HEALTH DEPARTMENT EMPLOYEE OR OTHER QUALIFIED PERSON. ENGINEERS MUST PROVIDE REGISTRATION NUMBER AND SIGN AND SEAL EACH PAGE OF SUBMITTAL. COMPLETE ALL ITEMS.

PROPERTY SIZE CONFORMS TO SITE PLAN: [X] **YES** [ ] **NO** **NET USABLE AREA AVAILABLE:** 1.58 **ACRES**
TOTAL ESTIMATED SEWAGE FLOW: 471 (1120) **GALLONS PER DAY [TABLE I / OTHER]**
AUTHORIZED SEWAGE FLOW: 2384 **GALLONS PER DAY [1500 GPD/ACRE OR 2500 GPD/ACRE]**
UNOBSTRUCTED AREA AVAILABLE: 884 **SQFT** **UNOBSTRUCTED AREA REQUIRED:** 884 **SQFT**

BENCHMARK/REFERENCE POINT LOCATION: NW C/L OF SW 77 AVE 12.12' N.G.V.D
ELEVATION OF PROPOSED SYSTEM SITE IS 13.44 **[INCHES/FT] [ABOVE/BELOW] BENCHMARK/REFERENCE POINT**

THE MINIMUM SETBACK WHICH CAN BE MAINTAINED FROM THE PROPOSED SYSTEM TO THE FOLLOWING FEATURES
SURFACE WATER: N/A **FT** **DITCHES/SWALES:** 23.4 **FT** **NORMALLY WET?** [ ] **YES** [✓] **NO**
WELLS: PUBLIC: N/A **FT** **LIMITED USE:** N/A **FT** **PRIVATE:** 209.4 **FT** **NON-POTABLE:** N/A **FT**
BUILDING FOUNDATIONS: 5.0 **FT** **PROPERTY LINES:** 5.75 **FT** **POTABLE WATER LINES:** 157.6 **FT**

SITE SUBJECT TO FREQUENT FLOODING: [ ] **YES** [✓] **NO** **10 YEAR FLOODING?** [ ] **YES** [✓] **NO**
10 YEAR FLOOD ELEVATION FOR SITE: N/A **FT MSL/NGVD** **SITE ELEVATION:** 11.0 **FT MSL/NGVD**

W.T4.5 NGVD

SOIL PROFILE INFORMATION SITE 1

MUNSELL #/COLOR	TEXTURE	DEPTH
10 Yr 4-3	SANDY LOAM	0" TO
BROWN		TO 16"
10 YR 7-6	LIME STONE	16" TO 16"
YELLOW		TO
	REFUSAL	16" TO
		TO
		TO
		TO
		TO

USDA SOIL SERIES: UDORTHENTS

SOIL PROFILE INFORMATION SITE 2

MUNSELL #/COLOR	TEXTURE	DEPTH
10 Yr 4-3	SANDY LOAM	0" TO
BROWN		TO 16"
10 YR 7-6	LIME LINE STONE	16" TO
YELLOW		TO
	REFUSAL	16" TO
		TO
		TO
		TO
		TO

USDA SOIL SERIES: UDORTHENTS

OBSERVED WATER TABLE: INCHES [ABOVE / BELOW] EXISTING GRADE. TYPE:[PERCHED / APPARENT] ESTIMATED
WET SEASON WATER TABLE ELEVATION: 78 **INCHES [ABOVE / BELOW] EXISTING GRADE**

HIGH WATER TABLE VEGETATION: [ ] **YES** [✓] **NO** **WSWT Indicator:** [ ] **YES** [x] **NO** **DEPTH:** N/A **INCHES**

SOIL TEXTURE/LOADING RATE FOR SYSTEM SIZING: .8 **DEPTH OF EXCAVATION:** 72 **INCHES**
DRAINFIELD CONFIGURATION: [✓] **TRENCH** [ ] **BED** [ ] **OTHER (SPECIFY)** _____
REMARKS/ADDITIONAL CRITERIA:

SYSTEM #2 31 F.U

SITE EVALUATED BY: Ernesto Santana P.E. Lic.: 60788 **DATE:** 5/07/24

ERNESTO SANTANA LICENSE No. 60788 STATE OF FLORIDA PROFESSIONAL ENGINEER

Department of Regulatory and Economic Resources
Impact Fee Assessment

Process Number: M2023021890-0
Batch:
Collection Number:
Folio: 2050110000390
Site Address: 11041 SW 77 AVE
CP*: N
Assessment Date: 09/08/2023
Fee Payer:

Online Payment available at:
https://wwwx.miamidade.gov/apps/rer/ImpactFeesPayments/default.aspx
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AREA							
	1.0	5002	00	UNIT SIZE (SQ FT)	3,800	$0.9180	$3,488.40
	1.0	5002	00	UNIT SIZE (SQ FT)	(1,884)	$0.9180	($1,729.51)
FIRE							
	4.0	2007	00	RESIDENTIAL	1	$447.0082	$447.01
	4.0	2007	00	RESIDENTIAL	(1)	$447.0082	($447.01)
ROAD							
	5.1	210	00	SINGLE-FAMILY DETACHED	1	$9,543.6680	$9,543.67
	5.1	210	00	SINGLE-FAMILY DETACHED	(1)	$9,543.6680	($9,543.67)
SCHL							
	1.0	5001	00	RESIDENTIAL UNIT	1	$612.0000	$612.00
	1.0	5001	00	RESIDENTIAL UNIT	(1)	$612.0000	($612.00)

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M2023021890	WASA	A	ABREU, JOHNNY	1/23/2024
M2023021890	DEPT OF HEALTH	A	FLORES, ANA	6/18/2024
M2023021890	DERM ONSITE SEWAGE TREATMENT & DISPOSAL SYSTEMS	A	ROJAS, RICHARD	2/26/2024
M2023021890	UPFRONT FEES	A	WEB APPLICATION ID	9/7/2023
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Void	HRS	V	Void
Approved	OTDS	A	Approved

Product Testing and Evaluation Certification Report

Norweco, Inc.
Bio-Kinetic System
Chlorine Disinfection Device
NWE010415F
February 1, 2016

North American Testing, LLC
201A Plank Road
PO Box 323
Norwalk, OH, USA 44857

ANSI Accredited Program
PRODUCT CERTIFICATION
NSF/ANSI Standards 40/46/245
#0833

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Product Certification Summary

Norweco, Inc.
Bio-Kinetic System
Chlorine Disinfection Device

200 GPD Minimum Flow Capacity
600 GPD Maximum Flow Capacity

Under the provisions of
NSF/ANSI Standard 46 : 2014 -
Evaluation of Components and Devices
Used in Wastewater Treatment Systems

February 1, 2016

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Preface

Performance evaluation of chlorination devices is achieved within the provisions of NSF/ANSI Standard 46: “Evaluation of Components and Devices Used in Wastewater Treatment Systems”. NSF/ANSI Standard 46, Section 11 applies specifically to the requirements for chlorination devices. NSF/ANSI Standard 46 was developed by the NSF Joint Committee on Wastewater Technology.

Chlorination devices conforming to NSF/ANSI Standard 46 are classified as Chlorine Dispensers or Chlorine Disinfection Devices according to the test criteria to which the device is tested. Chlorine Dispensers are tested with potable water and must provide an average chlorine concentration of > 15 mg/L. Chlorine Disinfection Devices are tested with secondary residential treated wastewater and must achieve a fecal coliform geometric mean under the minimum and maximum hydraulic loading conditions of ≤ 200 organisms / 100 mL.

NSF/ANSI Standard 46 requires the testing facility to provide the manufacturer of the chlorination device with a report including all data collected and observations made in accordance with the performance evaluation of the device. NAT policy specifies the provision of performance evaluation reports to appropriate state regulatory agencies at publication. Subsequent direct distribution of the report by NAT is made only at the specific request of, or by permission of, the manufacturer.

Conformance with the Standard is recognized by issuance of the NAT Mark. The NAT Mark and the Evaluation Certification Report are a certification of the data provided by the test and an indication of compliance with the requirements expressed in the Standard. Permission to use the NAT Mark is granted only after the equipment has been tested, found to perform satisfactorily and all other requirements of the Standard have been satisfied. Continued use of the Mark is dependent upon evidence of compliance with the Standard and NAT policies. This compliance is determined by periodic re-inspection of the equipment at the factory and reports from the field.

The following report contains results of the entire testing program, a description of the device, its operation, and a narrative summary of the test program, including test location, procedures, and significant occurrences. The chlorine device represented herein reflects the equipment authorized to bear the NAT Mark.

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Executive Summary

Testing of the Norweco, Inc. Bio-Kinetic System was conducted under the provisions of NSF/ANSI Standard 46: "Evaluation of Components and Devices Used in Wastewater Treatment Systems", 2014 revision. NSF/ANSI Standard 46, Section 11 applies specifically to the requirements for chlorination devices.

The performance evaluation was conducted at the North American Testing, LLC (NAT) Water and Wastewater Test Facility located in Norwalk, Ohio, USA using secondary treated residential wastewater. The Bio-Kinetic System was evaluated as a Chlorine Disinfection Device at a daily flow capacity of 200 to 600 GPD which provided a minimum contact time of 14 minutes. The evaluation consisted of a 100 day Chlorine Resistance Test, a 30 day operational Life Test, and a 1 day disinfection Chlorination Test. The Chlorine Resistance Test began on September 15, 2015 and was completed on December 24, 2015. The Life Test began on October 1, 2015 and was completed on November 1, 2015. The Chlorination Test was conducted on November 3, 2015.

Chlorine Resistance Test

Over the course of the 100 day Chlorine Resistance Test, the temperature ranged between 15° and 24° C. At the end of the test, the Bio-Kinetic System did not show any visible signs of chemical attack or structural deformation after exposure to Calcium Hypochlorite tablets and water for 100 days. The Bio-Kinetic System successfully passed the Chlorine Resistance Test.

Life Test

Over the course of the 30 day Life Test, the influent water $CBOD_5$ averaged 15 mg/L, ranging between 6 and 23 mg/L, and the influent water total suspended solids (TSS) averaged 29 mg/L, ranging between 20.0 and 40.0 mg/L. The average influent water fecal coliforms was 38,827 cfu/100 mL ranging between 6,000 and 106,000 cfu/100 mL. The average influent water pH was 7.7 S.U. ranging between 7.4 and 7.9 S.U., and the average influent water temperature was 19.6° C ranging between 18.5° and 21.1° C. The average influent water ammonia (NH_3) was 6.9 mg/L, ranging between 0.1 and 9.8 mg/L.

The Bio-Kinetic System successfully operated and delivered chlorine for the required 30 days without maintenance at the minimum daily flow of 200 GPD. No visible signs of damage were observed following the 30 day Life Test.

Chlorination Test

During the Chlorination Test, the influent $CBOD_5$ was 15 mg/L, the influent total suspended solids (TSS) was 19.0 mg/L, the influent pH was 7.5 S.U., the influent temperature was 19.0° C, and the influent ammonia (NH3) was 2.7 mg/L,. The average of all influent water fecal coliform samples collected during the Chlorination Test was 24,500 cfu/100 mL.

The Bio-Kinetic System achieved a fecal coliform geometric mean of 2 cfu/100 mL during the Chlorination Test at a minimum flow capacity of 200 GPD and at the maximum flow capacity of 600 GPD. The Bio-Kinetic System successfully met all of the design and performance requirements established by NSF/ANSI Standard 46 for Chlorine Disinfection Devices when tested at a daily flow capacity of 200 to 600 GPD.

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Certification

North American Testing, LLC has determined by performance evaluation under the provisions of NSF/ANSI Standards 46 – 2014 that the Bio-Kinetic System manufactured by Norweco, Inc. has fulfilled the requirements of NSF/ANSI Standard 46 for Chlorine Disinfection Devices. This includes:

1. Compliance with the materials, design, and construction requirements of NSF/ANSI 46, Sections 5 and Section 6.

2. Compliance to the product literature requirements of NSF/ANSI 46, Section 6.

3. Compliance to the performance requirements of NSF/ANSI 46, Section 11.

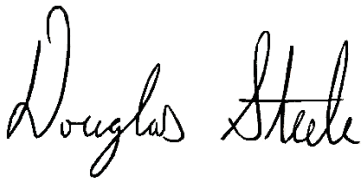
The Bio-Kinetic System has therefore been authorized to bear the NAT Mark so long as Norweco, Inc. continues to meet the requirements of NSF/ANSI Standard 46 and NAT policies. The Bio-Kinetic System is certified by North American Testing as an NSF/ANSI 46 Chlorine Disinfection Device for flow capacities of 200 to 1500 GPD when used with either Bio-Sanitizer or Blue Crystal chlorine tablets.

The Bio-Kinetic System is a component of several different Norweco wastewater treatment systems, including the Singulair 960, Singulair Green, Singulair TNT, and the Bio-Kinetic 2000. The NSF/ANSI Standard 46 certification applies only to the Bio-Kinetic System, specifically as a Chlorine Disinfection Device. The device shall be installed and operated as tested when used for the purpose of disinfecting secondary treated wastewater.

The observations and analyses included in this report are certified to be correct and true copies of the data secured during the performance tests conducted by NAT on the wastewater treatment system described herein. The manufacturer has agreed to present the data in this certification in its entirety whenever it is used in advertising, prospectuses, bids or similar uses. This report shall not be reproduced, except in its entirety, without the permission of NAT.

North American Testing, LLC. is accredited by the American National Standards Institute to certify wastewater treatment products under the scope of Sewage Water (13.060.30) and applicable NSF/ANSI Standards.

Nianfa Tang, PhD. PE
President
North American Testing, LLC



Douglas Steele
Program Manager
North American Testing, LLC

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1.0 PROCESS DESCRIPTION

The Bio-Kinetic System is a flow equalized and flow proportional chemical dosing unit designed to dispense chemical tablets in the Norweco Singulair and Bio-Kinetic 2000 wastewater treatment systems. The Bio-Kinetic System uses filtration, flow equalization, chemical addition, settling, and and flow detention to acheive treatment.

Flow to be treated enters the Bio-Kinetic System by passing though the design flow mesh that extends around the baffled perimeter. The design flow filter mesh provides for initial filtration and entrapment of solids. Larger peak flow filter mesh is located above the design flow mesh.

Liquid is channeled through three pairs of flow equalization ports which become submerged orifices as the water level in the chamber rises, equalizing the flow rate through the system and the device. Two design flow ports are located at the normal liquid level in the system and manage standard flow variations through the system. The two sustained flow ports manage longer hydraulic surges which have caused significant head rise in the system. The two peak flow ports accomodate prolonged hydraulic surges, and are located safely in reserve, well above the design and sustained flow ports. The flow equalization feature ensures a steady flow rate which evenly erodes the chemical tablets and allows consistent chemical application to low, sustained, variable, intermittent, and surge flows.

All flow passing through the flow equalization ports drops to the flow distribution deck where the chlorine tablets are contained in a chemical feed tube. The flow deck directs the water through the chemical feed tube where active chemicals are released into the flow stream as the liquid erodes the tablets. The flow deck incorporates a retaining ring with locating ribs for the feed tube. The locating ribs engage positioning slots in the feed tube to secure the tube in the proper orientation. The flow deck is elevated one-quarter inch higher than the device outlet for drainage of effluent from the flow channel which allows the tablets to dry during periods of no flow.

The feed tube is positioned vertically into the flow deck through the vapor shield. The liquid flows through six equally spaced flow windows in the feed tube for contact with the tablets. As the chemical tablets are eroded by the flow of water, additional tablets stacked in the feed tube drop into place and are exposed to the liquid. The chemical feed rate is dependent upon the flow rate and is not manually adjustable.

After contact with the chemical tablets, the treated liquid travels vertically downward through the unbaffled perimeter settling zone and into the contact chamber basin. The Bio-Kinetic System has an integrated contact chamber which contains a volume of 11.5 gallons and provides the required contact time for the chlorine solution to mix with the flow and disinfect the liquid. Generally, 15 minutes of contact time with the bacteria is required to destroy the organism cells. The inner baffle of the device contains 42 deck plates which act to intermix the chlorinated liquid and evenly disperse the chemical. Finally, the disinfected effluent exits the device through the internal chamber of the flow deck and out the gasketed discharge flange.

The chlorine tablets used for disinfection are manufactured from calcium hypochlorite and contain at least 70% available chlorine. The tablets incorporate beveled edges to enhance the chemical dissolution pattern.

The effectiveness of chlorination is dependant upon the pH and temperature of the water, the chlorine concentration in the water, contact time with the chlorine solution, and the concentration of contaminants such as ammonia and dissolved organics in the water. The pH of the liquid influences which type of chlorine solution is created when mixed with the flow. Chlorination is more effective at higher temperatures. Chlorine solutions react with ammonia to form chloramines, effectively reducing the disinfection ability of the chlorine solution. Organic compounds such as $CBOD_5$ also interferes with the effectiveness of the chlorine solution and creates a chlorine demand above what should be required to disinfect the water.

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2.0 PERFORMANCE TESTING AND EVALUATION

2.1 Description of the Evaluated Units

The Norweco Bio-Kinetic System tested in this evaluation has a minimum daily flow capacity rating of 200 GPD and a maximum daily flow capacity rating of 600 GPD. The Bio-Kinetic System body is manufactured from HDPE (High Density Polyethylene), with components made of Polypropolene (PP), ABS (Acrylonitrile Butadiene Styrene), Nylon, and rubber. The Bio-Kinetic System is a component of several different Norweco wastewater treatment systems including the Singulair series and the Bio-Kinetic 2000 and is designed specifically for use in these systems. For the purpose of this product evaluation, the Bio-Kinetic was installed and tested in the clarification chamber of a concrete Singulair system, which is its most common installation location. The gasketed discharge flange of the device is connected to the recieving flange outlet hub of the wastewater treatment system. Specifications and drawings of the device are included in Appendix A.

The Bio-Kinetic System is equipped with a molded, chemical feed tube with twist lock caps. The feed tube and cap are constructed of NSF/ANSI Standard 61 listed PVC (Polyvinyl chloride). The feed tube is manufactured with the translucent ClearCheck design which allows the operator to determine whether tablet refill is required by visual inspection. The feed tube utilizes chemical tablets with the nominal weight and dimensions of 5 ounces, 2 5/8” diameter and 13/16” to 1” height.

Two Bio-Kinetic Systems were randomly selected from a stock of finished and ready to ship products from the warehouse. The first tablet feeder was used to complete the Chlorine Resistance Test portion of NSF/ANSI Standard 46, section 11. The second tablet feeder was used to complete the Life Test and Chlorination Test portions of NSF/ANSI Standard 46, Section 11, consecutively.

The Bio-Kinetic System was evaluated using Bio-Sanitizer brand tablets provided by the manufacturer. The tablets are manufactured from pure calcium hypochlorite and contain at least 70% available chlorine. Bio-Sanitizer disinfecting tablets are registered with the USEPA for water and wastewater treatment. Each tablet is 2-5/8” diameter, compressed to a 13/16” thickness, has an approximate weight of 5 ounces, and is white in color for easy identification.

2.2 Test Protocol

Testing for certification was conducted per Section 11.6 of NSF/ANSI Standard 46 protocol, “Performance Testing and Evaluation of Chlorination Devices.” This section describes the methods used to evaluate the performance of the Norweco Bio-Kinetic System. The device was designed, installed, and tested as a Chlorine Disinfection Device. The device was subjected to the following test procedures:

Chlorine Resistance Test -	100 Days
Life Test -	30 Days
Chlorination Test -	1 Day

These tests were conducted on two separate chlorination devices. The Life Test and the Chlorination Test were performed consecutively in the order listed above using the same chlorination device.

2.3 Test Chronology

The Chlorine Resistance Test was conducted using the first tablet feeder and began on September 15, 2015. After 100 days of chemical exposure, the Chlorine Resistance Test concluded on December 24, 2015.

The Life Test was conducted using the second tablet feeder and began on October 1, 2015. Sample collection began on October 6, 2015. After 31 days of operation, the Life Test concluded on November 1, 2015.

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The Chlorination Test followed the Life Test using the same tablet feeder tested for the Life Test and was conducted on November 3, 2015. Samples for disinfection testing were collected at 10 minute intervals during the minimum and maximum flow capacities.

The NSF/ANSI Standard 46 performance evaluation was completed on December 24, 2015.

2.4 Preparation for Testing and Evaluation

The device was assembled and installed in accordance with the manufacturer's instructions.

The manufacturer inspected the system for proper installation. No defects were detected and the system was judged to be structurally sound.

The devices were filled with the chemical specified by the manufacturer, Bio-Sanitizer Disinfecting Tablets, prior to the start of the performance evaluation.

There were no mechanical repairs made to the device or its components during the performance testing and evaluation.

The device was operated in accordance with the manufacturer's instructions. Routine service and maintenance of the system was not permitted during the performance testing and evaluation period.

The device has no electrical requirements for proper operation. The device has no moving mechanical components that are required for proper operation.

The device contains several one way valves which are utilized to facilitate the filling and draining process during installation and removal of the device. The drain valve opens only during removal of the device, and allows for the exit of liquid. The fill valve opens only during installation of the device and is engineered to open when the pressure outside the device reaches 16" of head, which allows for the filling of the device. Both valves remain closed and do not operate during normal operation of the Bio-Kinetic System.

2.5 Dosing Methods and Volumes

Dosing was accomplished by opening an electrically actuated valve to feed raw sewage wastewater to an aerated wastewater treatment system. Ten gallon doses (exactly 10.40 gallon doses) were spread uniformly over each dosing period to comprise the total dosing volume for the period. The aerated wastewater treatment system treated the raw sewage and provided the secondary treated residential wastewater referred to as "influent water" to the chlorination device.

The average daily volume of the wastewater delivered to the system was within 100% ± 4% of the devices' daily rated hydraulic capacities.

2.6 Sample Collection

All sample collection methods were in accordance with APHA's Standard Methods for the Examination of Water and Wastewater unless otherwise specified. Sample containers for Fecal Coliform analysis contained Sodium Thiosulfate tablets to halt the disinfection action of the chlorine.

NSF/ANSI Standard 46 does not specify sampling frequency for the Life Test. Flow proportioned 24-hour composite influent water samples were collected three days per week during the Life Test. The influent composite samples were analyzed for five-day carbonaceous biochemical oxygen demand ($CBOD_5$), total suspended solids (TSS), pH, and ammonia. Influent water grab samples were collected three days per week and analyzed for pH and fecal coliform. On-site determinations of the influent water temperature were made three days per week. Although not required by the Standard, effluent grab samples were also collected three days per week and analyzed for fecal coliform and total chlorine.

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Flow proportioned 24-hour composite influent water samples were collected during the Chlorination Test. The influent composite samples were analyzed for five-day carbonaceous biochemical oxygen demand ($CBOD_5$), total suspended solids (TSS), pH, and ammonia. Influent water grab samples were collected and analyzed for pH and fecal coliform. On-site determinations of the influent water temperature were made three days per week. Although not required by the Standard, effluent grab samples were collected and analyzed for total chlorine. The effluent flow rates during each effluent fecal coliform grab sample moment were also recorded.

2.7 Chlorine Resistance Test

The Chlorine Resistance Test is designed to evaluate the durability of the chlorinator device materials and their resistance to chemical attack. During the Chlorine Resistance Test, the parts of the chlorination device normally in contact with chlorine are exposed for a period of 100 days to the maximum in-use concentration of the chemical specified to be used by the manufacturer.

The Bio-Kinetic System feed tube was filled to the maximum level with the chemical specified by the manufacturer, Bio-Sanitizer Disinfecting Tablets. The six inlet flow ports were sealed with polyethylene welds. The discharge flange was sealed with a pipe cap and the device was filled with potable water. The device was exposed to the chemical mixture for 100 days at a temperature of 20 ±5 °C. During the Chlorine Resistance Test, the device was periodically visually examined for leakage, damage, or noticeable changes.

2.7.1 Criteria

At the conclusion of the Chlorine Resistance Test, no component of the chlorination device shall show any visible sign of chemical attack or structural deformation.

At the end of the 100 day test period, the device was drained, disassembled, and inspected by a licensed Professional Engineer. The components of the device did not show any visible sign of chemical attack, structural deformation, or leakage. The Bio-Kinetic System passed the criteria of the Chlorine Resistance Test.

2.8 Life Test

The Life Test is designed to evaluate the capability of the chlorination device to operate for at least 30 days without maintenance or replenishing of chemicals. During the Life Test, the device is assembled, installed, and operated in accordance with the manufacturer's specifications. The device is filled to the maximum level with the chemical specified by the manufacturer. The device shall be capable of operating and delivering the chemical throughout the evaluation to the completion of the Chlorination Test.

Results of the analyses and measurements made during the Life Test are summarized in Section 3.0.

2.8.1 Manufacturer Specifications

The manufacturer shall specify all key elements for effective chlorination and the device shall be tested under these specifications. The manufacturer's specifications include:

The device is designed to treat flows at a minimum daily flow capacity of 200 gallons per day (GPD) and a maximum daily flow capacity of 600 gallons per day (GPD).

The manufacturer specifies the use of Bio-Sanitizer Disinfecting Tablets or Blue Crystal Residential Disinfecting Tablets both manufactured by Norweco, Inc. The Bio-Sanitizer tablets and the Blue Crystal tablets both contain 73% Calcium Hypochlorite with 70% available chlorine.

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The device does not require the use of any external contact chamber tank. Mixing of the chemical with the water is achieved by the natural mixing of the water in the contact chamber with the incoming flow.

2.8.2 Hydraulic Loading

The device shall be operated under the minimum daily flow capacity specified by the manufacturer during the Life Test. The device was dosed with secondary treated wastewater meeting the specifications for Influent Water at the minimum design loading rate specified by NSF/ANSI Standard 46 as follows:

Minimum Daily Flow Capacity - 200 Gallons Per Day (GPD)

6 a.m. to 9 a.m. – 35% of daily rated capacity or 70 gallons
11 a.m. to 2 p.m. – 25% of daily rated capacity or 50 gallons
5 p.m. to 8 p.m. – 40% of daily rated capacity or 80 gallons

The system was dosed 7 days a week for a period of 31 days with a wastewater volume equivalent to the daily minimum flow capacity of the device. On 10/29/2015, the device was mistakenly dosed with 416 gallons of flow. The increased flow for this one day did not affect the outcome of the evaluation.

2.8.3 Influent Water Characteristics

The Influent Water to the chlorination device shall be secondary treated residential wastewater meeting the specifications defined in NSF/ANSI Standard 46:

(1) $CBOD_5$: The $CBOD_5$ concentration shall be ≤ 25 mg/L.

(2) TSS: The total suspended solids (TSS) concentration shall be ≤ 30 mg/L.

(3) Fecal Coliform: The fecal coliform population shall be between 10,000 and 1,000,000 (10^4 to 10^6) organisms / 100 mL.

(4) pH: The pH of the influent water shall be between 6.0 to 9.0 S.U.

(5) Temperature: The temperature of the influent water shall be between 6° and 30° C.

(6) Ammonia: The ammonia (NH3) concentration shall be between ≥ 2.0 and ≤ 4.0 mg/L.

The Standard recognizes that achieving the influent characteristics above will not always be possible.

2.8.4 Effluent Requirements

The Standard does not require effluent sampling and has no requirements for the device effluent during the Life Test. At the request of the manufacturer, the device effluent was sampled every day that the influent water was sampled. The chlorination device effluent was analyzed for Total Chlorine and Fecal Coliform.

2.8.5 Criteria

At the conclusion of the test, there shall be no visible signs of damage or structural change that may adversely affect proper operation of any component of the chlorination device.

At the conclusion of the performance testing and evaluation, the device was disassembled, and inspected by a licensed Professional Engineer. The components of the device did not show any visible sign of damage or structural change. The Bio-Kinetic System passed the criteria of the Life Test.

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2.9 Chlorination Test

The Chlorination Test is conducted immediately following the Life Test using the same device that was tested during the Life Test. The Chlorination Test is designed to evaluate the disinfection capabilities of the chlorination device while operating at the minimum and maximum chemical feed rates at both the minimum and maximum daily flow capacities.

No maintenance was performed following completion of the Life Test or prior to the Chlorination Test. The chemicals placed into the device were not replenished or supplemented following the Life Test or prior to the Chlorination Test.

2.9.1 Hydraulic Loading

For each feed setting (maximum and minimum), flow shall be delivered to the chlorination device continuously over a 3-hour period at approximately 40% of the rated minimum and maximum daily hydraulic capacity for each feed setting.

The Bio-Kinetic System does not have manually adjustable chemical feed rates, therefore, the tablet feeder was tested at the minimum and maximum daily flow capacities using the single feed rate setting. The device was dosed with secondary treated wastewater meeting the specifications for Influent Water at the minimum and maximum hydraulic loading rates specified by the device manufacturer and the pattern specified by NSF/ANSI Standard 46 as follows:

Minimum Daily Flow Capacity - 200 Gallons Per Day (GPD)
40% of 200 GPD = 80 gallons delivered over a 3-hour dosing period

Maximum Daily Flow Capacity - 600 Gallons Per Day (GPD)
40% of 600 GPD = 240 gallons delivered over a 3-hour dosing period

During the Chlorination Test, actual effluent flow rates were physically measured at each individual effluent sampling event for both the minimum daily flow capacity and the maximum daily flow capacity test sequences. During the minimum daily flow capacity test sequence, the lowest effluent flow rate measured was 0.33 GPM and the highest effluent flow rate measured was 0.47 GPM with an average flow rate of 0.41 GPM. During the maximum daily flow capacity test sequence, the lowest effluent flow rate measured was 0.72 GPM and the highest effluent flow rate measured was 0.83 GPM with an average flow rate of 0.77 GPM.

2.9.2 Influent Water Characteristics

The Influent Water to the chlorination device shall be secondary treated residential wastewater meeting the specifications defined in NSF/ANSI Standard 46:

(1) $CBOD_5$: The $CBOD_5$ concentration shall be ≤ 25 mg/L.

(2) TSS: The total suspended solids (TSS) concentration shall be ≤ 30 mg/L.

(3) Fecal Coliform: The fecal coliform population shall be between 10,000 and 1,000,000 (10^4 to 10^6) organisms / 100 mL.

(4) pH: The pH of the influent water shall be between 6.0 to 9.0 S.U.

(5) Temperature: The temperature of the influent water shall be between 6° and 30° C.

(6) Ammonia: The ammonia (NH3) concentration shall be between ≥ 2.0 and ≤ 4.0 mg/L.

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The Standard recognizes that achieving the influent characteristics above will not always be possible. Daily sampling shall continue following the Life Test until the influent characteristics have been met during the Chlorination Test. The pass/fail criteria shall be applied to the effluent sample average from the first sample day meeting the influent water requirements.

Any test day during the Chlorination Test in which the influent water pH or temperature are outside the parameters shall be excluded from the evaluation. Any test day during the Chlorination Test in which the influent ammonia or fecal coliform is below the required range shall be excluded from the evaluation. Test days in which the $CBOD_5$,TSS, fecal coliform, or ammonia are above the required range may be included at the manufacturers' discretion if the chlorination device is able to successfully disinfect the influent water under the more difficult test conditions. $CBOD_5$,TSS, fecal coliform, or ammonia concentrations higher than the range specified in the Standard create a more challenging test condition.

On the day the Chlorination Test was conducted, all influent water characteristics were within the required specifications and the test data qualified for completion of the Chlorination Test.

2.9.3 Effluent Sampling and Analysis

During each hydraulic loading period, 5 effluent grab samples shall be collected, beginning after a minimum of 2 chamber volumes of the influent wastewater has passed through the device and continuing at 10 minute intervals.

During the Chlorination Test sequence, effluent grab samples were collected at ten minute intervals after two chamber volumes of wastewater had passed through the device during both the minimum and maximum daily flow capacities. Each feed and flow rate combination was separated by one hour of no wastewater dosing before beginning the next sequence. The chlorination device effluent was analyzed for Total Chlorine and Fecal Coliform.

2.9.4 Criteria

Chlorine Disinfection Devices shall achieve a geometric mean fecal coliform concentration of all hydraulic loading conditions of ≤ 200 organisms / 100 mL on the first day that the influent requirements are met.

The device achieved a geometric mean fecal coliform concentration of both hydraulic loading conditions of 2 cfu/100 mL which was consistent and acceptable disinfection of secondary treated residential wastewater with daily effluent discharge capacities between 200 and 600 gallons per day (GPD) and effluent flow rates between 0.33 and 0.83 gallons per minute (GPM). The Bio-Kinetic System passed the disinfection criteria of the Chlorination Test.

3.0 ANALYTICAL RESULTS

3.1 Summary

Analysis of samples collected during the evaluation were completed using the appropriate methods and procedures in APHA's *Standard Methods for the Examination of Water and Wastewater*. Copies of data generated during the evaluation are included in Appendix B. Results of the analyses, on-site observations, and measurements made during the Life Test are summarized in Table I. Results of the analyses, on-site observations, and measurements made during the Chlorination Test are summarized in Table II.

Criteria for evaluating the analytical results from the testing are described in Section 11.6 of NSF/ANSI Standard 46. In completing the Life Test and Chlorination Test qualifications for the data, an allowance is made for elevated $CBOD_5$,TSS, Ammonia, and Fecal Coliform concentrations in the Influent Water which may be above the parameters specified.

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The North American Testing Laboratory conforms to ISO/IEC 17025 for all management and technical requirements.

3.2 Biochemical Oxygen Demand

The five-day carbonaceous biochemical oxygen demand ($CBOD_5$) analysis was completed using Method 5210B of Standard Methods. Data from this analysis is summarized in Table I. The $CBOD_5$ data for the evaluation is shown in Appendix B.

Influent Water $CBOD_5$:

The influent water $CBOD_5$ ranged from 6 to 23 mg/L during the Life Test, with an average concentration of 15 mg/L. The average influent water $CBOD_5$ value was within the ≤ 25 mg/L range specified by the Standard.

The influent water $CBOD_5$ was 15 mg/L on the day the Chlorination Test was conducted, which was within the ≤ 25 mg/L range specified by the Standard.

TABLE I. SUMMARY OF ANALYTICAL RESULTS
LIFE TEST

TABLE I

	Average	Minimum	Maximum
Carbonaceous Biochemical Oxygen Demand (mg/L)			
Influent Water ($CBOD_5$)	15	6	23
Total Suspended Solids (mg/L)			
Influent Water (TSS)	29.1	20.0	40.0
Fecal Coliform (cfu/100 mL)			
Influent Water	38,830	6,000	106,000
Effluent	1	1	4
pH (SU)			
Influent Water	7.7	7.4	7.9
Temperature (°C)			
Influent Water	19.6	18.5	21.1
Ammonia (mg/L)			
Influent Water (NH_3)	6.9	0.1	9.8
Total Chlorine (mg/L)			
Effluent	11	3	18

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TABLE II. SUMMARY OF ANALYTICAL RESULTS
CHLORINATION TEST

TABLE II

	Average	Minimum	Maximum	Geometric Mean
Carbonaceous Biochemical Oxygen Demand (mg/L)				
Influent Water ($CBOD_5$)	15	na	na	na
Total Suspended Solids (mg/L)				
Influent Water (TSS)	19.0	na	na	na
Fecal Coliform (cfu/100 mL)				
Influent Water	24,500	12,500	34,000	22,747
Effluent	3	1	8	2
pH (SU)				
Influent Water	7.5	na	na	na
Temperature (°C)				
Influent Water	19.0	na	na	na
Ammonia (mg/L)				
Influent Water (NH_3)	2.7	na	na	na
Total Chlorine (mg/L)				
Effluent	8	2	14	na

3.3 Total Suspended Solids

TSS analysis was completed using Method 2540D of Standard Methods. Data from this analysis is summarized in Table I. The TSS data for the evaluation is shown in Appendix B.

Influent Water TSS:

The influent water TSS ranged from 20.0 to 40.0 mg/L during the Life Test, with an average concentration of 29.1 mg/L. The average influent water TSS value was within the ≤ 30 mg/L range specified by the Standard.

The influent water TSS was 19.0 mg/L on the day the Chlorination Test was conducted, which was within the ≤ 30 mg/L range specified by the Standard.

3.4 Fecal Coliform

Fecal coliform analysis was completed using Method 9222D of Standard Methods. Data from this analysis is summarized in Table I. The fecal coliform data for the evaluation is shown in Appendix B.

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Influent Water Fecal Coliform:

The influent water fecal coliform ranged from 6,000 to 106,000 cfu/100 mL during the Life Test, with an average concentration of 38,827 mg/L. The average influent water fecal coliform was within the 10^4 to 10^6 (10,000 - 1,000,000) organisms / 100 mL range specified by the Standard.

The influent water fecal coliform ranged from 12,500 to 34,000 cfu/100 mL on the day the Chlorination Test was conducted, with an average concentration of 24,500 mg/L. The average influent water fecal coliform was within the 10^4 to 10^6 (10,000 - 1,000,000) organisms /100 mL range specified by the Standard.

Effluent Fecal Coliform:

The effluent fecal coliform ranged from <1 to 4 cfu/100 mL during the Life Test, with an average concentration of 1.2 cfu/100 mL and a geometric mean of 1.1 cfu/100 mL. The Standard does not have a requirement for effluent fecal coliform during the Life Test.

The effluent fecal coliform ranged from <1 to 8 cfu/100 mL on the day the Chlorination Test was conducted, with an average concentration of 3.0 cfu/100 mL and a geometric mean of 2.0 cfu/100 mL. The fecal coliform geometric mean was within the ≤ 200 organisms /100 mL limit required by the Standard.

3.5 pH

pH analysis was completed using Method 4500-H B of Standard Methods. Data from this analysis is summarized in Table I. The pH data for the evaluation is shown in Appendix B.

Influent Water pH:

The influent pH ranged from 7.4 to 7.9 S.U. during the Life Test with an average value of 7.7 S.U. The average influent water pH was within the 6.0 to 9.0 range specified by the Standard.

The influent pH was 7.5 S.U. on the day the Chlorination Test was conducted, which was within the 6.0 to 9.0 range specified by the Standard.

3.6 Temperature

Temperature analysis was completed using a digital thermometer. Data from this analysis is summarized in Table I. The temperature data for the evaluation is shown in Appendix B.

Influent Water Temperature:

Influent water temperature ranged from 18.5° to 21.1° C during the Life Test with an average value of 19.6° C. The average influent water temperature was within the 6° to 30° C range specified by the Standard.

Influent water temperature was 19.0° C on the day the Chlorination Test was conducted, which was within the 6° to 30° C range specified by the Standard.

3.7 Ammonia

Ammonia analysis was completed using Method 4500-NH3 D of Standard Methods . Data from this analysis is summarized in Table I. The ammonia data for the evaluation is shown in Appendix B.

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Influent Water Ammonia:

The influent water ammonia concentration ranged from 0.1 to 9.8 mg/L during the Life Test, with an average ammonia concentration of 6.9 mg/L. The average influent water ammonia value was above the ≥ 2 to ≤ 4 mg/L range specified by the Standard. The Standard recognizes that achieving the required influent characteristics will not always be possible.

The influent water ammonia concentration was 2.7 mg/L on the day the Chlorination Test was conducted, which was within the ≥ 2 to ≤ 4 mg/L range specified by the Standard.

3.8 Total Chlorine

Total chlorine analysis was completed using Method 4500-Cl B of Standard Methods. Data from this analysis is summarized in Table I. The total chlorine data for the evaluation is shown in Appendix B.

Effluent Total Chlorine:

The effluent total chlorine ranged from 3 to 18 mg/L during the Life Test, with an average concentration of 10.8 mg/L. The Standard does not have a requirement for effluent total chlorine during the Life Test.

The effluent total chlorine ranged from 2.2 to 14 mg/L during the Chlorination Test, with an average concentration of 8.1 mg/L. The Standard does not have a requirement for effluent total chlorine when evaluating Chlorine Disinfection Devices during the Chlorination Test.

4.0 References

- Standard Methods for the Examination of Water and Wastewater, 21st Edition
- NSF/ANSI Standard 46 : 2014 “Evaluation of Components and Devices Used in Wastewater Treatment Systems”

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APPENDIX A

DEVICE SPECIFICATIONS AND DRAWINGS

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DEVICE SPECIFICATIONS

Norweco, Inc.
Bio-Kinetic® System

Chlorine Contact Chamber Volume	**11.5 Gallons**
Minimum Design Flow	**200 GPD**
Minimum Flow Rate	0.33 gpm*
Hydraulic Retention Time	35 minutes
Maximum Design Flow	**600 GPD**
Maximum Flow Rate	0.83 gpm*
Hydraulic Retention Time	14 minutes

*Due to the flow equalization feature of the Bio-Kinetic System, actual flow rates through the device are significantly reduced from the flow rate entering the wastewater treatment system.

CHEMICAL SPECIFICATIONS

Norweco, Inc.
Bio-Sanitizer® Disinfecting Tablets

Tablet	
Diameter	2-5/8”
Thickness	13/16”
Weight	5 oz. (140 grams)
Special Design Features	Beveled Edges
Active Ingredient	
Calcium Hypochlorite ($Ca(OCl)_2$ * (H_2O)	73%
Minimum Available Chlorine	70%

Norweco, Inc.
Blue Crystal® Residential Disinfecting Tablets

Tablet	
Diameter	2-5/8”
Thickness	1”
Weight	5 oz. (140 grams)
Special Design Features	Beveled Edges
Active Ingredient	
Calcium Hypochlorite ($Ca(OCl)_2$ * (H_2O)	73%
Minimum Available Chlorine	70%

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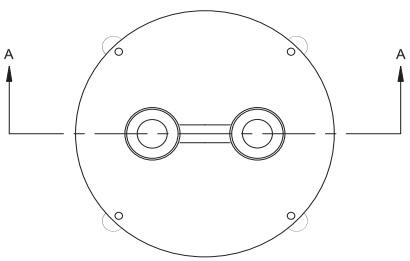
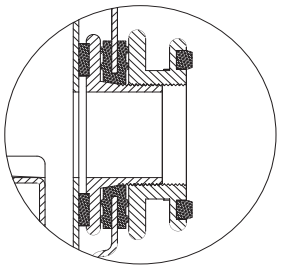
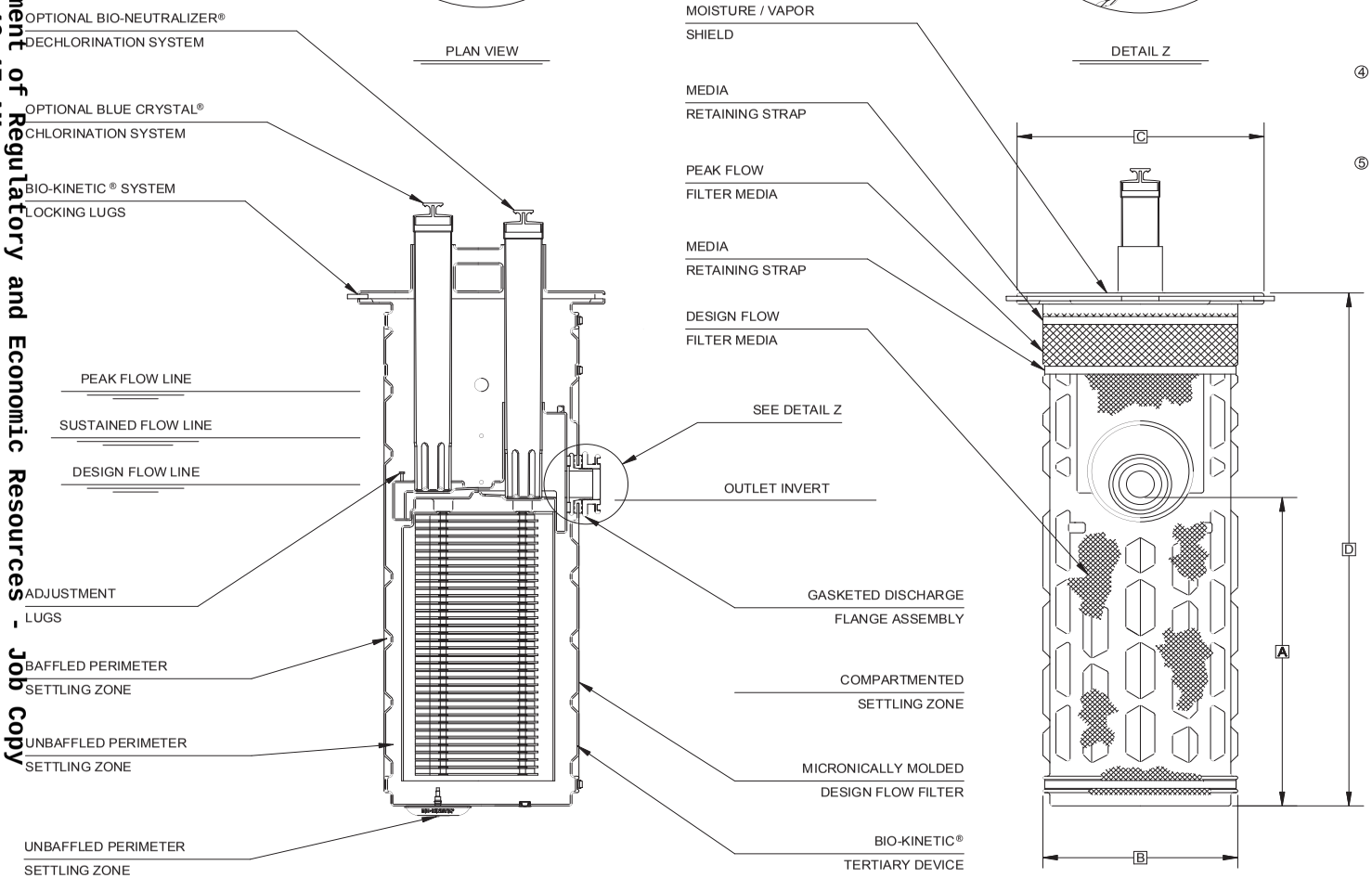


PLAN VIEW



DETAIL Z



SECTION A-A

OUTLET VIEW

GENERAL NOTES:

① OPTIONAL BLUE CRYSTAL® CHLORINATION SYSTEM MAY BE REQUIRED. CHECK LOCAL REGULATIONS GOVERNING CHLORINATION REQUIREMENTS.

② OPTIONAL BIO-NEUTRALIZER® DECHLORINATION SYSTEM MAY BE REQUIRED. CHECK LOCAL REGULATIONS GOVERNING DECHLORINATION REQUIREMENTS.

③ USE ONLY BIO-KINETIC ® LUBRICANT WHEN INSTALLING THE BIO-KINETIC ® TERTIARY DEVICE. OTHER LUBRICANTS MAY DEGRADE THE RUBBER AND PLASTIC COMPONENTS OF THE SYSTEM.

④ THE BIO-KINETIC® TERTIARY DEVICE SHALL BE INSTALLED SUCH THAT THE INVERT OF THE DESIGN FLOW EQUALIZATION PORT IS LOCATED AT THE NORMAL LIQUID LEVEL OF THE UPSTREAM TREATMENT TANK.

⑤ GASKETED DISCHARGE FLANGE ASSEMBLY CAN BE USED WITH ROTATIONALLY MOLDED RECEIVING FLANGE IF OUTLET ADAPTER IS INSTALLED.

PROJECT ENGINEER'S APPROVAL:
I (WE) HEREBY CERTIFY THAT THIS DRAWING HAS BEEN CHECKED AND IS APPROVED FOR USE IN CONFORMITY WITH THE CONTRACT DOCUMENTS.

DATE: _____

NAME: _____

CONTRACTOR'S CERTIFICATION:
I (WE) HEREBY CERTIFY THAT THIS DRAWING HAS BEEN CHECKED AND IS APPROVED FOR USE IN CONFORMITY WITH THE CONTRACT DOCUMENTS.

DATE: _____

NAME: _____

CRITICAL DIMENSIONS

A	1'-11¼"	J	
B	1'-2"	K	
C	1'-5¾"	L	
D	3'-2½"	M	
E		N	
F		O	
G		P	
H		Q	
I		R	

TOLERANCES

NOMINAL DIMENSIONS ARE SHOWN AND MAY VARY ±⅜" IN LENGTH FOR EACH COMPONENT.

U.S. AND FOREIGN PATENTS PENDING

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NORWECO.

BIO-KINETIC ® TERTIARY DEVICE

REVISION DATE	REVISION B
03-02-2010 DRAWN BY	NGM
APPROVED BY	JMM
DATE	5-17-00
SCALE	NTS
DRAWING NO.	PC-5-9674

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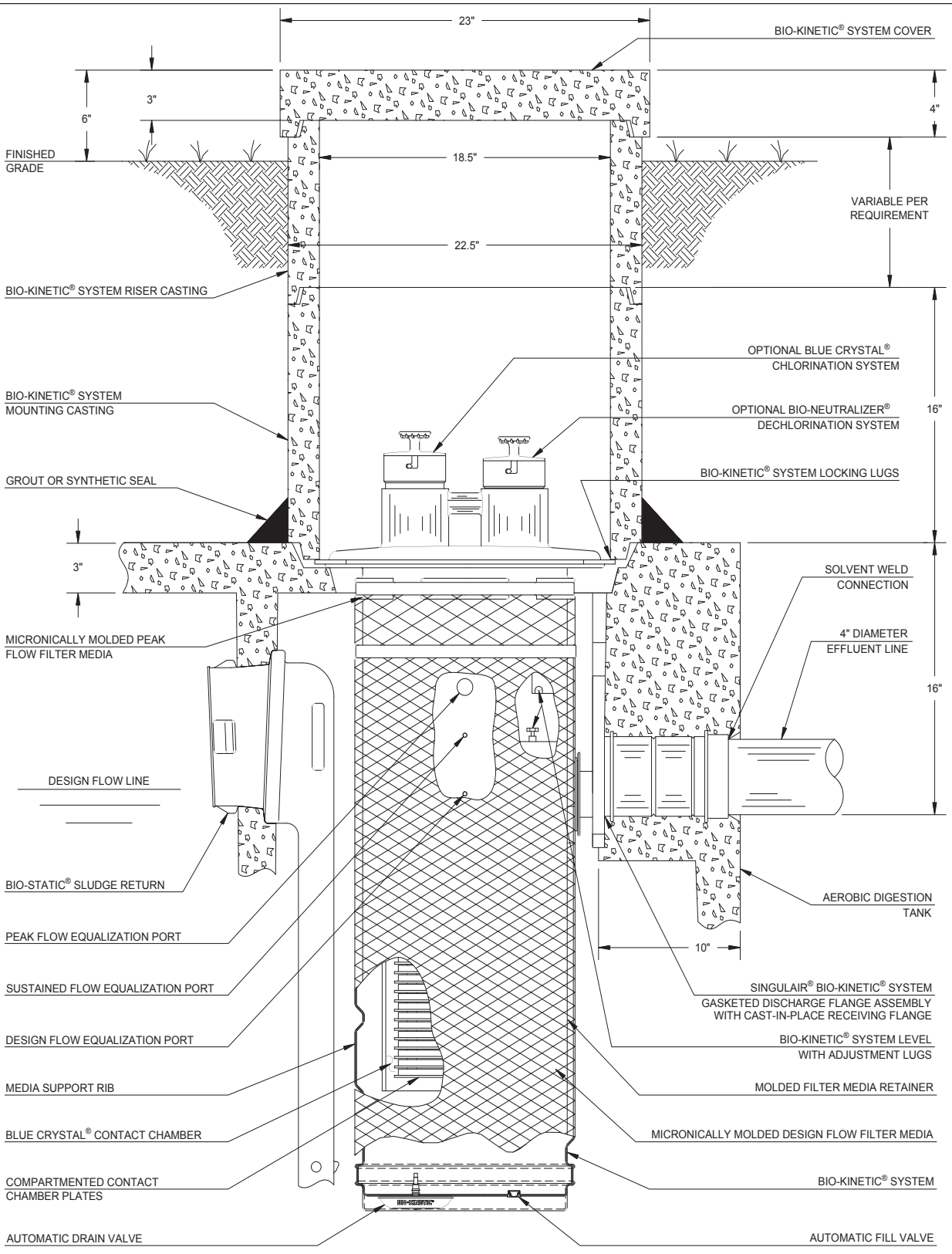

GENERAL NOTES:

① AFTER INSTALLATION, ALL CHAMBERS OF THE SINGULAIR TANK SHOULD BE FULL TO THE FLOW LINE WITH CLEAN HOLD DOWN WATER.

② INTERNAL AND EXTERNAL PRESSURE EQUALIZATION ON THE BIO-KINETIC SYSTEM IS MANAGED AUTOMATICALLY BY THE DRAIN VALVE AND FILL VALVE.

③ WHEN USING OPTIONAL CHEMICAL FEED TUBES, INSURE THE BLUE CRYSTAL® CHLORINATION FEED TUBE IS INSTALLED THROUGH THE MOUNTING COLLAR NEAREST THE AERATOR MOUNTING CASTING, AND THE BIO-NEUTRALIZER® DECHLORINATION FEED TUBE IS INSTALLED THROUGH THE MOUNTING COLLAR NEAREST THE SYSTEM OUTLET.

U.S. AND FOREIGN PATENTS PENDING	norweco®	REVISION DATE 3-16-07	REVISION G
	BIO-KINETIC® MOUNTING AND INSTALLATION DETAIL	DRAWN BY BDS	
		APPROVED BY GJS	
		DATE 7-8-96	
		SCALE NTS	
		DRAWING NO. PC-5-8501	

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APPENDIX B

ANALYTICAL RESULTS

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NSF/ANSI Standard 46 - Chlorine Disinfection Device

Week Beginning 9/27/2015 Site Code: NWE010415

Weeks Into Test: Installation

Day and Date		Sunday 9/27	Monday 9/28	Tuesday 9/29	Wednesday 9/30	Thursday 10/1	Friday 10/2	Saturday 10/3	Week's Average
Dosed Volume (Gallons)						198	198	198	198
$CBOD_5$ (mg/L)	Influent								na
Total Suspended Solids (mg/L)	Influent								na
Fecal Coliform (cfu/100 mL)	Influent								na
	Effluent								na
pH	Influent								na
Temperature (°C)	Influent								na
Ammonia	Influent								na
Total Chlorine	Effluent								na

(a) Site Problem
(b) Malfunction of system under test
(c) Sample/reading not taken
(d) Lab Error
(e) Other

Notes : 10/1/2015- Begin Life Test.

NSF/ANSI Standard 46 - Chlorine Disinfection Device

Week Beginning 10/4/2015 Site Code: NWE010415

Weeks Into Test: 1

Day and Date		Sunday 10/4	Monday 10/5	Tuesday 10/6	Wednesday 10/7	Thursday 10/8	Friday 10/9	Saturday 10/10	Week's Average
Dosed Volume (Gallons)		198	198	198	198	198	198	198	198
$CBOD_5$ (mg/L)	Influent			22	10	14			15
Total Suspended Solids (mg/L)	Influent			36.0	29.0	37.0			34.0
Fecal Coliform (cfu/100 mL)	Influent			89,000	30,000	6,000			41,667
	Effluent			1	1	1			1
pH	Influent			7.8	7.6	7.9			7.7
Temperature (°C)	Influent			20.6	20.4	(c)			20.5
Ammonia	Influent			0.1	0.9	5.1			2.0
Total Chlorine	Effluent			3	4	4			4

(a) Site Problem
(b) Malfunction of system under test
(c) Sample/reading not taken
(d) Lab Error
(e) Other

Notes :

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NSF/ANSI Standard 46 - Chlorine Disinfection Device

Week Beginning 10/11/2015 Site Code: NWE010415

Weeks Into Test: 2

Day and Date		Sunday 10/11	Monday 10/12	Tuesday 10/13	Wednesday 10/14	Thursday 10/15	Friday 10/16	Saturday 10/17	Week's Average
Dosed Volume (Gallons)		198	198	208	198	198	198	198	199
$CBOD_5$ (mg/L)	Influent			17	6	16			13
Total Suspended Solids (mg/L)	Influent			23.0	23.0	23.0			23.0
Fecal Coliform (cfu/100 mL)	Influent			10,500	14,000	8,000			10,833
	Effluent			1	1	4			2
pH	Influent			7.8	7.5	7.7			7.6
Temperature (°C)	Influent			21.1	20.8	20.5			20.8
Ammonia	Influent			8.6	9.5	9.8			9.3
Total Chlorine	Effluent			5	9	11			8

(a) Site Problem
(b) Malfunction of system under test
(c) Sample/reading not taken
(d) Lab Error
(e) Other

Notes :

NSF/ANSI Standard 46 - Chlorine Disinfection Device

Week Beginning 10/18/2015 Site Code: NWE010415

Weeks Into Test: 3

Day and Date		Sunday 10/18	Monday 10/19	Tuesday 10/20	Wednesday 10/21	Thursday 10/22	Friday 10/23	Saturday 10/24	Week's Average
Dosed Volume (Gallons)		198	198	208	208	208	208	198	204
$CBOD_5$ (mg/L)	Influent		13	23	18				18
Total Suspended Solids (mg/L)	Influent		39.0	40.0	33.0				37.3
Fecal Coliform (cfu/100 mL)	Influent		30,500	71,000	74,000				58,500
	Effluent		1	1	1				1
pH	Influent		7.7	7.7	7.8				7.7
Temperature (°C)	Influent		18.7	18.7	18.9				18.8
Ammonia	Influent		9.3	8.7	8.1				8.7
Total Chlorine	Effluent		12	18	15				15

(a) Site Problem
(b) Malfunction of system under test
(c) Sample/reading not taken
(d) Lab Error
(e) Other

Notes :

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NSF/ANSI Standard 46 - Chlorine Disinfection Device

Week Beginning 10/25/2015 Site Code: NWE010415

Weeks Into Test: 4

Day and Date		Sunday 10/25	Monday 10/26	Tuesday 10/27	Wednesday 10/28	Thursday 10/29	Friday 10/30	Saturday 10/31	Week's Average
Dosed Volume (Gallons)		198	208	198	198	416	198	198	231
$CBOD_5$ (mg/L)	Influent		23	16	11	9			15
Total Suspended Solids (mg/L)	Influent		26.0	24.7	25.0	20.0			23.9
Fecal Coliform (cfu/100 mL)	Influent		19,000	106,000	24,750	22,000			42,938
	Effluent		1	1	1	1			1
pH	Influent		7.6	7.6	7.4	7.9			7.6
Temperature (^oC)	Influent		19.2	18.9	18.7	18.5			18.8
Ammonia	Influent		8.6	7.2	6.4	7.2			7.4
Total Chlorine	Effluent		16	11	15	18			15

(a) Site Problem
(b) Malfunction of system under test
(c) Sample/reading not taken
(d) Lab Error
(e) Other

Notes :

NSF/ANSI Standard 46 - Chlorine Disinfection Device

Week Beginning 11/1/2015 Site Code: NWE010415

Weeks Into Test: 5

Day and Date		Sunday 11/1	Monday 11/2	Tuesday 11/3	Wednesday 11/4	Thursday 11/5	Friday 11/6	Saturday 11/7	Week's Average
Dosed Volume (Gallons)		198	198	380	380	380	380	380	328
$CBOD_5$ (mg/L)	Influent			15					15
Total Suspended Solids (mg/L)	Influent			19.0					19.0
Fecal Coliform (cfu/100 mL)	Influent			24,500					24,500
	Effluent			2					2
pH	Influent			7.5					7.5
Temperature (^oC)	Influent			19.0					19.0
Ammonia	Influent			2.7					2.7
Total Chlorine	Effluent			8					8

(a) Site Problem
(b) Malfunction of system under test
(c) Sample/reading not taken
(d) Lab Error
(e) Other

Notes : 11/3/2015 - Begin Chlorination Test

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NSF/ANSI Standard 46 - Chlorine Disinfection Device
Chlorination Test (11.6.3)

Date 11/3/2016 Site Code NWE010415

Influent Water

Requirement		Analysis Result					
$CBOD_5$	≤ 25 mg/L	$CBOD_5$	**15** mg/L				Within Range
TSS	≤ 30 mg/L	TSS	**19** mg/L				Within Range
pH	6.0 - 9.0	pH	**7.5** S.U.				Within Range
Temperature	6° - 30° C	Temperature	**19** ° C				Within Range
Ammonia	≥ 2.0 - ≤ 4.0 mg/L	Ammonia	**2.7** mg/L				Within Range
				Flow	Time		
		Fecal Coliform	**12,500** cfu/100 mL	200 GPD	8:39		
			20,000 cfu/100 mL	200 GPD	9:21		
			31,500 cfu/100 mL	600 GPD	11:47		
			34,000 cfu/100 mL	600 GPD	12:29		
Fecal Coliform	10,000 - 1,000,000	Average	**24,500** cfu/100 mL				Within Range
	cfu/100 mL	Geometric Mean	**22,750** cfu/100 mL				Within Range

Effluent

Requirement		Analysis Result					
				Flow	Time	Flow Rate	
		Fecal Coliform	**4** cfu/100 mL	200 GPD	8:40	0.42 gpm	
			1 cfu/100 mL	200 GPD	8:50	0.33 gpm	
			1 cfu/100 mL	200 GPD	9:00	0.47 gpm	
			8 cfu/100 mL	200 GPD	9:10	0.42 gpm	
			8 cfu/100 mL	200 GPD	9:20	0.40 gpm	
			1 cfu/100 mL	600 GPD	11:48	0.72 gpm	
			1 cfu/100 mL	600 GPD	11:58	0.72 gpm	
			1 cfu/100 mL	600 GPD	12:08	0.76 gpm	
			1 cfu/100 mL	600 GPD	12:18	0.81 gpm	
			4 cfu/100 mL	600 GPD	12:28	0.83 gpm	
Fecal Coliform	≤ 200 cfu/100 mL	Geometric Mean	**2.0** cfu/100 mL				Pass
Total Chlorine	No Requirement	Total Chlorine	**2** mg/L	200 GPD	9:22		
			14 mg/L	600 GPD	12:29		

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APPENDIX C

OWNER'S MANUAL

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norweco®

SINGULAIR® BIO-KINETIC®

WASTEWATER TREATMENT SYSTEM WITH SERVICE PRO® CONTROL CENTER

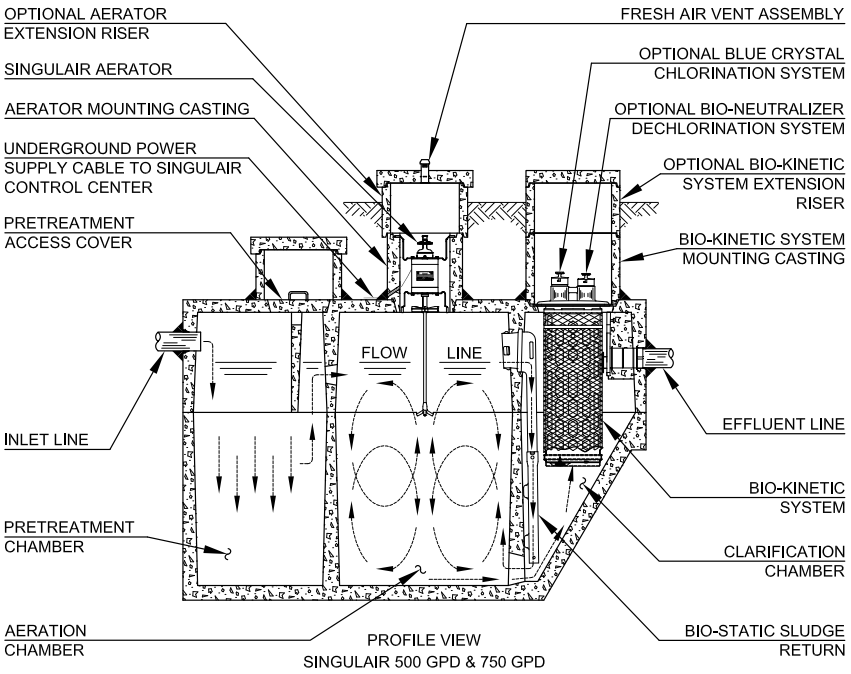
MODELS 960 AND TNT® OWNER'S MANUAL

INTRODUCTION

The Singulair system is the finest equipment available and utilizes the most up-to-date wastewater treatment technology. It is a sound investment that protects you and the environment. Please take the time to familiarize yourself with the contents of this manual.

HOW THE SINGULAIR® SYSTEM WORKS

Developed to serve homes and small businesses beyond the reach of city sewers, the Singulair system employs the extended aeration process. Similar to the treatment method used by most municipal wastewater treatment facilities, this process involves a natural, biological breakdown of the organic matter in wastewater.



Wastewater enters the pretreatment chamber where anaerobic bacterial action combines with the effects of gravity to precondition the waste before it flows into the aeration chamber. Once in the aeration chamber, aerobic bacteria utilize the organic matter in the wastewater to biologically convert the waste into stable substances. Following aeration, flow is transferred to the clarification chamber where the effects of gravity settle out biologically active material. The Bio-Static sludge return, located in the clarification chamber, creates hydraulic currents that gently transfer settled particles back to the aeration chamber. As clarified liquids pass through the Bio-Kinetic system, they are filtered, settled and flow equalized. As a result, complete pretreatment, aeration, clarification and final filtration are assured. The Singulair system reliably protects you, your property and the environment.

FEATURES AND ADVANTAGES

Singulair tanks are reinforced precast concrete, manufactured by the licensed Norweco distributor. Internal walls and baffles are cast-in-place to insure uniformity and maximum strength. Risers and access covers are either heavy duty plastic or concrete construction. All components within the system that will contact the wastewater are constructed entirely of molded plastic, stainless steel or rubber.

The Singulair aerator is powered by a 1725 RPM, 115 volt, 60 hertz, single-phase, fractional horsepower motor. It is the only electrically powered component in the Singulair system. The aerator has been designed specifically for use in the Singulair system. It costs less to operate and consumes fewer kilowatt hours of electricity than most major appliances.

Singulair aerators are supplied with a Service Pro control center with MCD technology. The NEMA rated control center contains a power switch and time clock that control aerator operation. The local distributor's name, address and telephone number are displayed on the control center cover. All system controls and necessary owner information are conveniently located at your fingertips.

Non-mechanical flow equalization and final filtration is accomplished within the Singulair tank by the Bio-Kinetic system. This revolutionary device is installed in the clarification chamber and connected to the system outlet. Optional chlorination and dechlorination may be included in the Bio-Kinetic system if required. All Singulair components work together to assure complete pretreatment, aeration, clarification and final filtration.

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SINGULAIR® SYSTEM PERFORMANCE

Rivaling the performance of the most advanced wastewater treatment plants in the world, the Singulair system complies with USEPA wastewater treatment guidelines for secondary treatment systems and meets all requirements of NSF/ANSI Standard 40. In ecologically sensitive areas, the most stringent effluent standards are 10 mg/L CBOD and 10 mg/L TSS. Rated Class I after successfully completing the 7 month Standard 40 test protocol, the Model 960 system averaged effluent of 6 mg/L CBOD and 10 mg/L TSS. The Model TNT system averaged effluent of 4 mg/L CBOD, 9 mg/L TSS and 12 mg/L Total Nitrogen and met all requirements of NSF/ANSI Standard 245.

OPERATIONAL REQUIREMENTS

The Singulair system is designed to treat only domestic wastewater. Domestic wastewater is defined as the waste generated from a typical residence. This includes flows originating from: bathtubs, clothes washers, dishwashers, drinking fountains, water coolers, food grinders, kitchen sinks, lavatories, mop basins, service sinks, shower stalls, sinks, wash sinks, water closets and whirlpool baths. While the use of bio-degradable detergents is recommended, the Singulair system has been designed to handle any reasonable amount of bathroom, kitchen or laundry waste. However, some care should be exercised to insure that non-biodegradable and/or toxic materials are not disposed of via the domestic wastewater plumbing. Do not use the plumbing system for disposal of lint, cooking grease, scouring pads, diapers, sanitary napkins, cotton balls, cotton swabs, cleaning rags, dental floss, strings, cigarette filters, rubber or plastic products, paints and thinning agents, gasoline, motor oil, drain cleaners or other harsh chemicals. These items could plug portions of the plumbing and/or adversely affect system performance. Never connect roofing down spouts, footer drains, sump pump piping, garage and basement floor drains or water softener backwash to the domestic wastewater plumbing or the treatment system. Water softener backwash will interfere with biological treatment and must be disposed of separately.

ELECTRICAL REQUIREMENTS

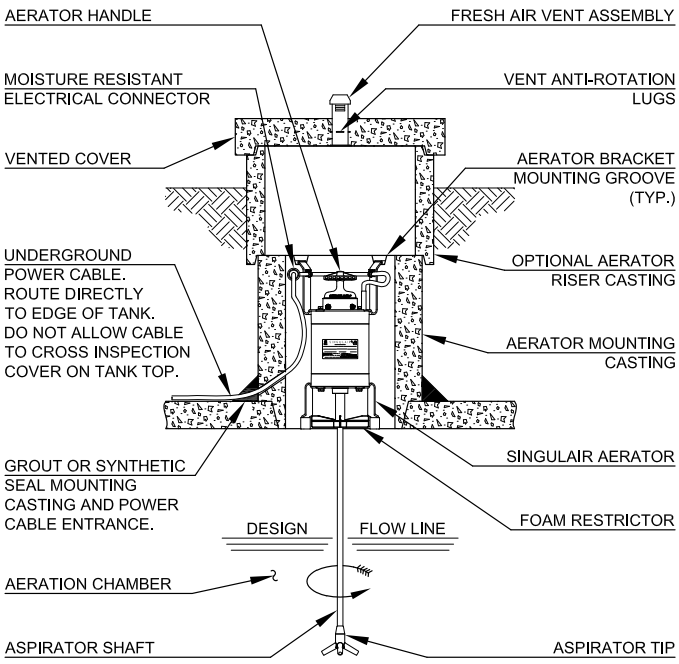
Each Singulair control center must be wired to a dedicated 115 VAC, single-phase circuit at the main electrical service panel. A 15 amp circuit is recommended (10 amp minimum). A pictorial wiring diagram is provided inside the control center enclosure. All electrical work must be performed in accordance with the requirements of the National Electrical Code and all applicable local codes. Electrical connections should be made only by a qualified electrician following proper procedures and using safe tools.

CAUTION: Any time service is required, first shut off the dedicated circuit breaker in the main electrical service panel. Next, shut off the power switch in the Singulair control center. Failure to do so could result in personal injury or equipment damage.

SINGULAIR® AERATOR

The aerator has been specifically designed for use in the Singulair system and includes special alloy and molded plastic parts to prolong aerator life. Aerator bearings are pre-lubricated and sealed. Singulair aerators are installed in a concrete mounting casting above the aeration chamber. Fresh air enters the aerator through four intake ports located under the aerator handle. The air is drawn down the hollow aspirator shaft where it is introduced below the liquid surface. Only the molded plastic aspirator and the lower portion of the stainless steel aspirator shaft are submerged.

The aerator is not designed to run under water and will automatically shut off if a high water condition occurs. If the liquid rises to the level of the foam restrictor, the control center will shut off power to the aerator. Next, an automatic diagnostic sequence begins, as outlined in the section titled “Service Pro Control Center”.



Each Singulair aerator is a precision engineered electro-mechanical device. Do not remove it from its installed position. Do not attempt any type of repair. Contact your Singulair service provider if service is needed. Unauthorized tampering or repair will void important provisions of the limited warranty and exchange program.

FRESH AIR VENTING SYSTEM

An aerator vent assembly is cast into the concrete access cover above each aerator. The vent assembly supplies fresh air to the aerator, which is drawn through the aspirator and into the wastewater. Finished landscaping should be maintained six inches below the top of the vented access cover and graded to drain runoff away from the cover. Do not allow plants, shrubbery, mulch or landscaping of any type to restrict the flow of air to the vent assembly or obstruct the access cover.

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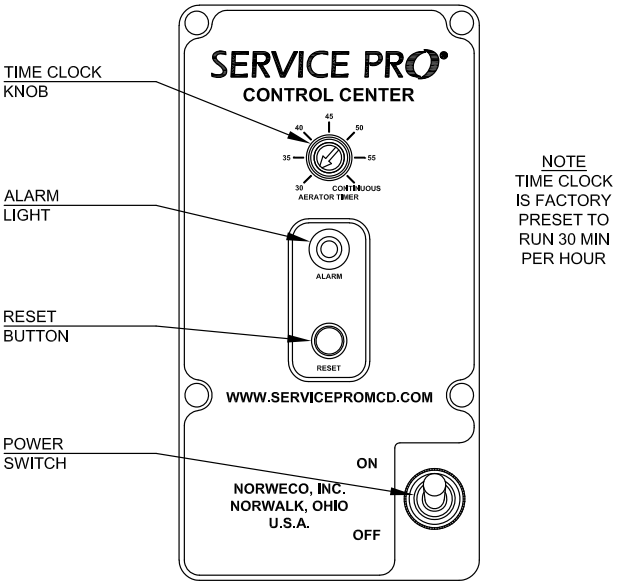


SERVICE PRO® CONTROL CENTER

Prewired controls are supplied in a sealed NEMA rated enclosure for your safety and the protection of components and wiring. The controls should be located so the alarm light can be seen and the audible alarm heard, while minimizing exposure to harsh weather or conditions that might prevent routine access. If an issue with the aerator is detected, the red alarm light will flash and the control center will attempt to restart the aerator every five minutes for two hours. For an open motor or under current condition, the alarm light will display two short flashes followed by a pause. For an over current condition, the alarm light will flash evenly. If the aerator does not restart after two hours, the audible alarm will sound. To silence the audible alarm and attempt to restart the aerator, push the reset button. If the alarm condition is not resolved, the audible alarm will be silenced for 48 hours, but the alarm light will continue to flash. In this case, contact your service provider. Model 960 systems are supplied with a time clock adjustable in five minute increments up to continuous run. This clock is factory preset to run 30 minutes per hour and should only be adjusted by an authorized Singulair service provider. Model TNT systems are supplied with a non-adjustable time clock.

SERVICE PRO® MONITORING CENTER

An optional Service Pro MCD control center is available for use with the Singulair system. Designed to connect to a standard telephone line or internet connection, this control center provides MONITORING, COMPLIANCE and DIAGNOSTIC functions complete with telemetry for communication with the Service Pro monitoring center. Once your Service Pro MCD control center is connected to a telephone line or internet connection, commissioned, and covered by a remote monitoring agreement, your service provider will be immediately notified of any alarm condition. The Service Pro monitoring center will automatically log the time and date of alarm conditions, as well as service performed, and store them in your system history record for viewing at **www.serviceepromcd.com**.

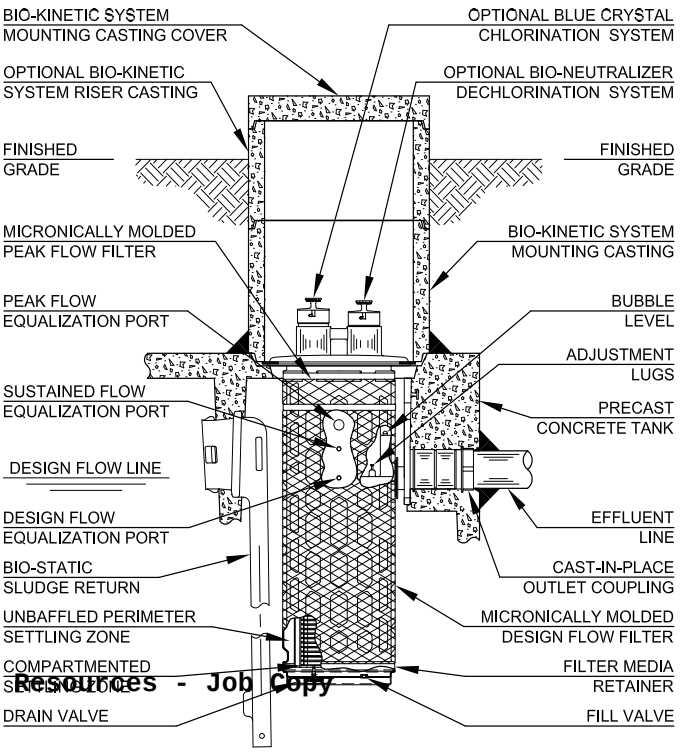
NOTE: The control center regularly communicates with the Service Pro monitoring center using your telephone line or an internet connection. If the control center is using the telephone line when you attempt to place a call, a high pitched digital communication signal will be heard. Hang up all telephones sharing the line and wait a few seconds. This will automatically disconnect the control center and make the line available for use.

BIO-STATIC® SLUDGE RETURN

Each Bio-Static sludge return is installed in the aeration/ clarification chamber wall. Aeration chamber hydraulic currents enter the sludge return(s) and transfer solids from the clarification chamber back to the aeration chamber for additional treatment. The Bio-Static sludge return accomplishes resuspension and return of settled solids without disturbing the contents of the clarification chamber.

BIO-KINETIC® SYSTEM

Bio-Kinetic systems provide non-mechanical flow equalization through all plant processes. The Bio-Kinetic system contains 3 separate filtration zones, 8 independent settling zones, optional chlorination and dechlorination tablet feed systems and serves as its own chlorine contact chamber. When used with Blue Crystal disinfecting tablets, the performance of the Bio-Kinetic system as a chlorination device is certified to NSF/ANSI Standard 46, Section 11. All components are manufactured from plastic or rubber. Your service provider has the necessary training, tools and equipment for removal and cleaning. If your Bio-Kinetic system is in need of service, contact your service provider. During each semi-annual service inspection, your service provider will remove and clean the Bio-Kinetic system or replace it with a unit from their service stock.



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NON-MECHANICAL FLOW EQUALIZATION

The patented design of the Bio-Kinetic system provides non-mechanical flow equalization for the Singulair wastewater treatment plant. Equalization reduces incoming hydraulic surges (e.g. typical shower of 10 minutes duration, bathtub discharge of 5 minutes duration, clothes washer discharge of 2 minutes duration and dishwasher discharge of 2 minutes duration) throughout the system. The flow equalization provided by the Bio-Kinetic system causes wastewater to be held upstream of the final outlet during hydraulic surges, which preserves treatment integrity and enhances system operation. The actual rate of equalization varies and depends upon specific loading patterns and the duration of each flow surge. At the design loading pattern used during the NSF/ANSI Standard 40 performance evaluation, the Singulair system equalizes all flow an average of 48%. As a result, hydraulic surges and periods of high wastewater flow are automatically reduced to protect the environment and all treatment plant processes on a demand use, as needed, basis.

BLUE CRYSTAL® RESIDENTIAL DISINFECTING TABLETS

If local regulations require, an initial supply of Blue Crystal disinfecting tablets will be placed in the Bio-Kinetic system chlorine feed tube(s) at system start-up. Specifically formulated for use in the Singulair system, Blue Crystal disinfecting tablets provide efficient and reliable disinfection when effluent chlorination is desirable. Manufactured from calcium hypochlorite, Blue Crystal disinfecting tablets provide effective, economical bacteria killing power. Liquid entering the Bio-Kinetic system contacts the installed Blue Crystal disinfecting tablets, just downstream of the equalization ports. A fully charged feed tube will last an average of six months. During each semi-annual inspection, your Singulair service provider will check system operation, the rate of tablet consumption and install tablets during routine service inspections.

NOTE: USEPA guidelines state "On the average, satisfactory disinfection of secondary wastewater effluent can be obtained when the chlorine residual is 0.5 ppm after 15 minutes contact." Retention time must comply with the controlling regulatory jurisdiction.

CAUTION: The improper handling of Blue Crystal tablets may cause personal injury or property damage. Keep out of the reach of children and do not allow the tablets or feed tube to contact skin, eyes, or clothing. Tablets may be fatal if swallowed and tablet dust is irritating to the eyes, nose and throat. Do not handle the tablets or feed tubes without first carefully reading the product container label, MSDS information and the handling and storage instructions. Mixing of chemicals may cause a violent reaction leading to fire or explosion. For additional information about Blue Crystal tablets contact your Singulair service provider.

BIO-NEUTRALIZER® DECHLORINATION TABLETS

In environmentally sensitive areas, environmental regulations may require the use of Bio-Neutralizer dechlorination tablets. Manufactured as an efficient and dependable means to chemically neutralize both free and combined chlorine, Bio-Neutralizer dechlorination tablets provide consistent reduction or elimination of chlorine residual without unnecessarily reducing the level of dissolved oxygen in the treatment system effluent. Bio-Neutralizer dechlorination tablets utilize a unique chemical mixture for chlorine reduction and environmental protection. As liquid passes through the final discharge zone of the Bio-Kinetic system, the flow contacts the installed Bio-Neutralizer tablets and residual chlorine is removed from the system effluent. A fully charged Bio-Neutralizer feed tube will last an average of six months. During each semi-annual inspection, your Singulair service provider will check system operation, the rate of tablet consumption and install tablets during routine service inspections.

CAUTION: Bio-Neutralizer tablets or feed tubes should not be mixed with Blue Crystal tablets. Do not handle the tablets or feed tubes without first carefully reading the product container label, MSDS information and the handling and storage instructions. For additional information about Bio-Neutralizer tablets contact your Singulair service provider.

NO OWNER MAINTENANCE

The Singulair system is inspected and serviced by a local, factory-trained service provider, therefore, no owner maintenance is required during the warranty period. The Singulair system does not require pumping as often as a septic tank. Under normal use only the pretreatment chamber should be pumped. How often pumping is necessary depends on system use. The local Singulair service provider will inspect the aeration chamber contents and plant effluent at six month intervals to determine if the pretreatment chamber is discharging excessive solids. Every three years, the pretreatment chamber should be inspected. The pretreatment chamber will normally require pumping at three to five year intervals. Contact your local service provider prior to tank pumping for complete information on removal of equipment, access to individual chambers, coordination of services and proper disposal of tank contents. A tank pumping service licensed by the local regulatory agency must be used for removal and disposal of tank contents. The tank pumper should consult with local authorities to determine the proper disposal method.

If a period of intermittent use, or an extended period of non-use of the Singulair system is anticipated, contact your Singulair service provider for instructions. Your service provider has comprehensive Singulair service instructions and has been factory-trained in troubleshooting procedures. Contact your service provider if you require service or information regarding tank pumping.

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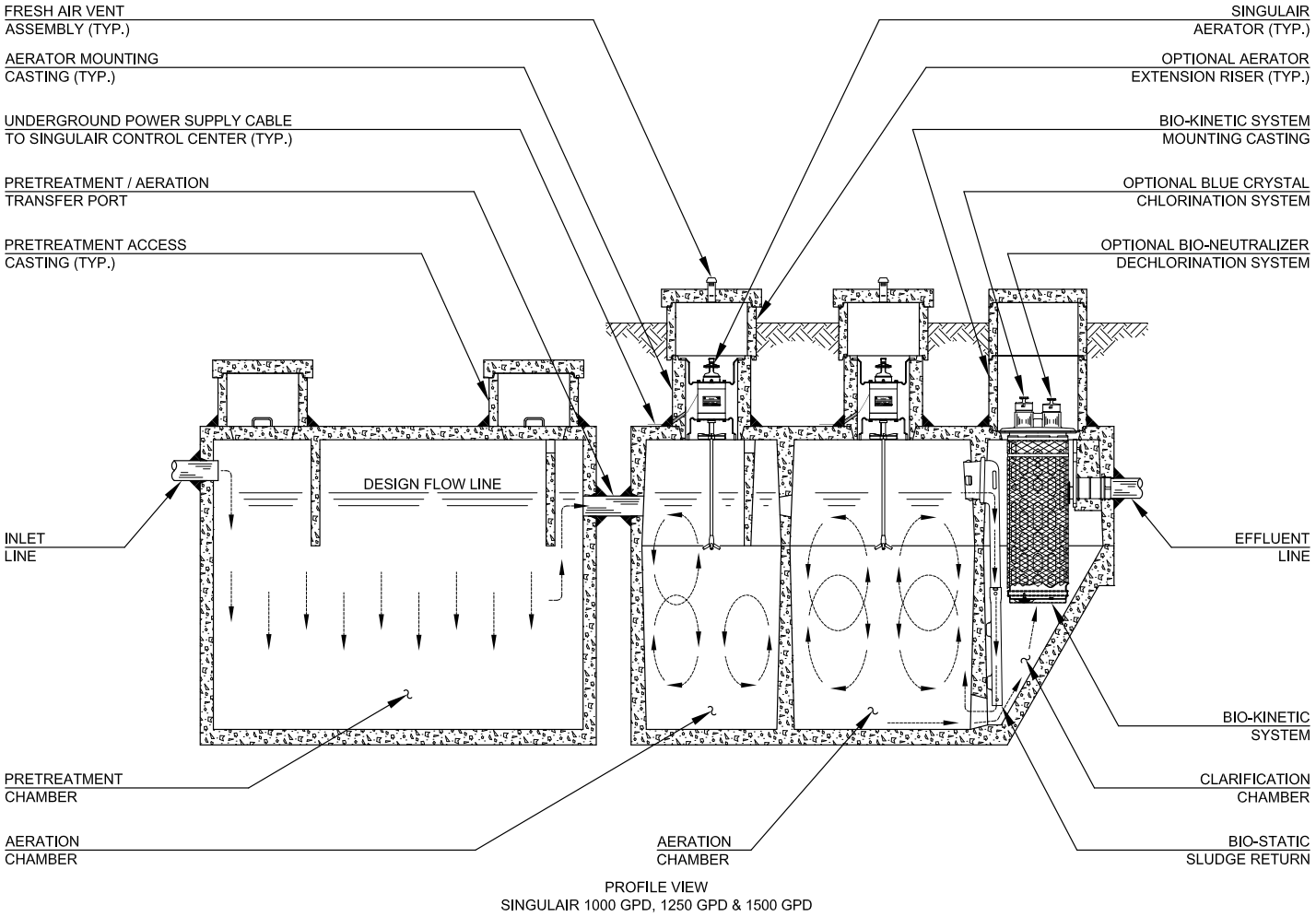
SINGULAIR® SERVICE PROGRAM

Semi-annual service inspections, at six month intervals for the first two years of system operation, are provided by your local Norweco distributor and are included in the original purchase price of the Singulair system. Costs for travel and labor are not charged to the owner. During an inspection, each mechanical aerator, Bio-Kinetic system and other plant components are serviced as outlined in the Singulair Product Manual. After the initial two year service program is completed, the local service provider will provide continued service at the owner's option. The service program should be renewed by the owner to insure maximum system performance.



PROFILE VIEW
SINGULAIR 1000 GPD, 1250 GPD & 1500 GPD

Ask your Singulair service provider about a renewable service contract. If you allow service coverage to expire, you can still obtain the professional assistance of a factory-trained technician. However, these special service calls will be performed on a time and materials basis. Professional service is important to proper system operation and should not be allowed to lapse. Be sure to consider the advantages of a renewable service contract.

The Singulair service provider will perform the following services during each service inspection:

- ✓ Check aerator operation
- ✓ Check aerator power consumption
- ✓ Check aerator air delivery
- ✓ Clean stainless steel aspirator shaft
- ✓ Clean aspirator tip
- ✓ Clean fresh air vent in concrete cover
- ✓ Inspect aeration chamber contents
- ✓ Check operation of control center
- ✓ Adjust time clock when required
- ✓ Remove the Bio-Kinetic system
- ✓ Scrape the clarification chamber
- ✓ Inspect the Bio-Static sludge return
- ✓ Inspect outlet coupling
- ✓ Install a clean Bio-Kinetic system
- ✓ Fill Blue Crystal feed tube
- ✓ Fill Bio-Neutralizer feed tube
- ✓ Inspect effluent quality
- ✓ Inspect outlet line
- ✓ Inspect ground water relief point
- ✓ Inspect effluent disposal system
- ✓ Complete 3-part service record
- ✓ Hang owner's record on front door
- ✓ Enter record into **www.servicepromcd.com**
- ✓ Mail health department notification

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WARRANTY REGISTRATION

A Warranty Registration Card was included with the Model 206C aerator before it was shipped from the factory. If this card has not been returned to Norweco, complete and mail it immediately. If it is not returned within thirty days of the installation date, the three year limited warranty and lifetime aerator exchange program will begin on the date of component shipment from the factory.

Remove the aerator model number and serial number record card and store it in a safe location with this Owner's Manual for future reference. If it is necessary to call your service provider for service, make note of the information on the control center data plate and the aerator serial number before calling. Warranty and service records are cross-indexed by owner name, aerator serial number or control center serial number. Supplying the aerator serial number and control center serial number with the service request will give the service provider a ready reference so that changes in system ownership will not delay service.

SINGULAIR® LIMITED WARRANTY

The Singulair aerator enjoys the distinction of being the only aerator on the market today backed by a lifetime warranty and exchange program. Each Singulair aerator, Service Pro control center, Bio-Kinetic system and any other components manufactured by Norweco, are warranted to be free from defects in material and workmanship, under normal use and service, for a period of three years from the date of purchase. The three year limited warranty is included in the original purchase price of every Singulair system. The comprehensive aerator exchange program offers Singulair owners a lifetime of protection. Owners with a Singulair system may exchange any aerator of any age for a replacement unit at a prorated cost. If the Singulair aerator or Service Pro control center fails, do not use or dismantle the unit. The local, licensed distributor has detailed warranty and exchange information and should be contacted for service or replacement instructions.

SERVICE PRO® SECURITY LOG IN

For your convenience, record your **www.servicepromcd.com** access information here:

User name:	**Password:**

SUPPLEMENTAL SERVICE RECORD

For your reference, please document service performed on the following chart:

DATE	DESCRIPTION

norweco®

Engineering the future of water and wastewater treatment

DISTRIBUTED LOCALLY BY:

220 REPUBLIC STREET
NORWALK, OHIO, USA 44857-1156
TELEPHONE (419) 668-4471
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NOTE: ALL SHEETS MUST BE REVIEWED

MIAMI-DADE COUNTY DEPARTMENT OF REGULATORY AND ECONOMIC RESOURCES
Herbert S. Saffir Permitting and Inspection Center
11805 SW 26th Street (Coral Way) • Miami, Florida 33175-2474 • (786) 315-2000

APPLICATION FOR MUNICIPAL PERMIT APPLICANTS THAT REQUIRE PLAN REVIEW FROM MIAMI-DADE FIRE RESCUE AND/OR ENVIRONMENTAL SERVICES

PROVIDE MUNICIPAL PROCESS NUMBER HERE BC 2023-1236

LOCATION OF IMPROVEMENTS
Job Address 11041 SW 77 ave
Folio 20 5011 000 0390
Lot _____ Block _____
Subdivision _____ PBpg _____
Metes and bounds _____

CONTRACTOR INFORMATION
Contractor No. _____
Last four (4) digits of Qualifier No. _____
Contractor Name _____
Qualifier Name _____
Address _____
City _____ State ___ Zip _____

TYPE OF IMPROVEMENTS
[ ] New Construction on Vacant Land
[ ] Alteration Interior
[ ] Alteration Exterior
[ ] Relocation of Structure
[ ] Enclosure
[ ] Repair
[ ] Repair Due to Fire
[ ] Demolish
[ ] Shell Only
[ ] Addition Attached
[ ] Addition Detached
[ ] Re-Roof
[ ] Foundation Only
[ ] Tent

Current use of property New 2 story Residence
Description of Work New 2 story residence
Sq. Ft. 17.415 Units _____ Floors _____
Value of Work $ 3.750.000=

PERMIT TYPE
[X] MBLD* Category 02
[ ] MELE
[ ] MPLU
[ ] MLPG
[ ] MMEC
[ ] FIRE

REVIEW STATUS
[ ] Chg. Contractor
[ ] Re-Issue
[ ] Re-Stamp
[ ] Revision
[ ] Not Applicable for Fire

PROPERTY OWNER'S INFO
Owner Paolo Fidanza
Address 6495 SW 83 St
City Miami State FL Zip 33189
Phone 786 444-2945
Last four (4) digits of Owner's Social Security No. _____

PERMIT CONTACT
Name Heidy Certain
Address 7900 SW 210 st
City Miami State FL Zip 33189
Phone 7864442945

ARCHITECT / ENGINEER
Owner _____
Address _____
City _____ State ___ Zip _____
Phone _____

FIRE SPECIAL REQUEST PLAN REVIEW (SRI)
I am requesting a Special Request Plan Review (SRI) to be scheduled as soon as possible. There is a minimum charge of one-hour. Please contact the Fire Department for current rate.
1st Request: _____ Date: _____
2nd Request: _____ Date: _____
3rd Request: _____ Date: _____

If the applicant is a known named violator with: unpaid civil penalties; unpaid administrative costs of hearing; unpaid County investigative, enforcement, testing, or monitoring costs; or unpaid liens, any or all of which are owed to Miami-Dade County pursuant to the provisions of the Code of Miami-Dade County, Florida, a hold on the review may be placed on this application.

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OSTDS Guidance Manual

Version 1.0

OSTDS Program

Miami-Dade County

Department of Regulatory and Economic Resources (RER)

Division of Environmental Resources Management

Water & Wastewater Division

March 2023

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OSTDS Guidance Manual

1.0 Introduction

The Onsite Sewage Treatment and Disposal System (OSTDS) Guidance Manual is intended to serve as a design guide for Professional engineers, designing OSTDS for residential and commercial properties in Miami-Dade County.

It is not intended to replace engineering judgment or replace the engineering design process. It is NOT a "recipe" book; instead, it provides "minimum" requirements. The professional Engineer shall use sound engineering judgment and consider in addition to the requirements of Chapter 24-42.7, the requirements of Chapter 62-6 of the Florida Administrative Code (F.A.C.) for drainfiled configuration, system sizing, and other important design parameters. The engineer shall keep in mind that the reduction in drainfield size and some setbacks, allowed by the use of a PBTS in Chapter 62-2 (F.A.C.), are not permitted under Chapter 24 of the Miami-Dade County Code (the Code).

The engineer shall also keep in mind that in accordance with Section 61G15-19.001, Florida Administrative Code, "a professional engineer shall not be negligent in the practice of engineering." Negligence is defined as "the failure by a professional engineer to utilize due care in performing in an engineering capacity or failing to have due regard for acceptable standards of engineering principles." Furthermore, "Professional engineers shall approve and seal only those documents that conform to acceptable engineering standards and safeguard the life, health, property and welfare of the public." Failure to address outstanding disapproval comments may be regarded as "negligence."

2.0 OSTDS Terms, Definitions, and Acronyms

To establish a consistent basis for reviewing and approving plans and confirming compliance, the following terms are to be used.

Department - Shall mean the Division of Environmental Resources Management of the Miami-Dade County Department of Regulatory and Economic Resources or successor department responsible for administration of this chapter.

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Director - Shall mean the primary official that has been delegated responsibility to administer the Department with duties created pursuant to this chapter. Except where expressly provided or where context dictates otherwise, the term "Director" includes the Director's designee.

Domestic Sewage - Human body waste and wastewater from toilets, showers, sinks, baths, laundry, equipment, kitchen equipment and other fixtures or equipment designed and used for human sanitation, as determined by the Director, whether located within residential or non-residential land uses.

Drainfield or disposal system - A system designed to distribute domestic sewage effluent for treatment and disposal onsite. This system is deemed to be a component of an OSTDS.

Feasible distance - Shall mean the criteria and distance calculated by the DERM, in accordance with Section 24-43.4, to determine when connection to a public water main, public sanitary sewer, or both is required, as referenced in section 24-43.4.

Liquid Waste - Liquid or sludge waste materials resulting from domestic, commercial, industrial, mining, institutional, agricultural, or governmental operations, including such materials to be recycled or otherwise beneficially reused, that would cause a nuisance or would otherwise cause a violation of this chapter if discharged to the ground or waters of Miami-Dade County. Liquid waste includes, but is not limited to, solvents, sewage, industrial waste, hazardous waste, semisolid waste, and potentially infectious waste, as well as the materials resulting from or contained in any of the following: waste treatment works, air pollution control facility, onsite sewage treatment and disposal system; FOG control device, sediment trap, portable toilet or oil, water separator

Onsite Sewage Treatment and Disposal System or OSTDS - a system, and components thereof, to treat and dispose of domestic sewage that is decentralized and is located either on the site from which the domestic sewage is generated or on an adjacent or nearby site.

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Reserved Area - The area on a property reserved for the installation or replacement of a drainfield or disposal system.

Seasonal High Water Table - is the highest level to a zone of saturation in the soil in most years. Normally persists for several weeks and normally occurs during the time of the year when the most rain falls (June-September in FL)

Septic Tank - Receptacle constructed to promote separation of solid and liquid components of wastewater, to provide limited digestion of organic matter, to store solids, and to allow clarified liquid to discharge for further treatment and disposal. For purposes of this chapter, a septic tank is classified as an OSTDS.

Site Plan - A drawing having a scale sufficient to provide the following information: property lines, relevant rights-of-way, and location of all proposed or existing buildings, OSTDSs, utility easements, fences, walls, parking areas, driveways, access roads, setbacks, and any other site development.

List of Acronyms

ANSI	American National Standards Institute
DERM	Department of Environmental Resources Management
FDEP	Florida Department of Environmental Protection
FDOH	Florida Department of Health
EQCB	Environmental Quality Control Board
FAC	Florida Administrative Code
FOG	Fats, Oil, and Grease
NSF	National Sanitary Foundation
OSTDS	Onsite Sewage Treatment and Disposal Systems
PBTS	Performance Based Treatment System
SHWT	Seasonal High Water Table
WPA	Wellfield Protection Area

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3.0 Rules & Regulations

On July 7th, 2022, the Board of County Commissioners passed and adopted Ordinance 22-83 relating to environmental protection, amending section 24-5 of the Code; creating and revising definitions related to an Onsite Sewage Treatment and Disposal System (OSTDS). This ordinance also added a new section in the Code, 24-42.7, which requires the Water and Wastewater Division of DERM to review new and total replacement OSTDS or septic systems effective January 1st, 2023. This applies to all residential, commercial, and industrial developments that comply with section 24-43.1 and are served by an OSTDS.

Applicable Chapter 24 code sections are provided below:

24-5	Definitions
24-15	Plan approval required
24-28	Nuisances injurious to health (sanitary nuisances)
24-42.7	Onsite Sewage Treatment and Disposal System (including without limitation, septic tank systems)
	24-42.7(1) Purpose and intent
	24-42.7(2) OSTDS types and standards
	24-42.7(3) General requirements
	24-42.7(4) Registration required
	24-42.7(5) Standards and procedures governing installation of an OSTDS
	24.42.7(6) Administrative adjustments authorized
	24.42.7(7) Conflicts with other regulations
	24-43.2 Regulation of on-site domestic well systems and other water supply wells
	24-43.4 Feasible distance for public sanitary sewers and water mains
24-43.1	Liquid waste disposal and potable water supply systems

Other applicable codes and regulations:

- Code of Miami-Dade County

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2-114.1 Administrative review of takings and vested right claims
Section 8CC-10 Schedule of civil penalties

- Florida Administrative Code

  Chapter 62-6 - Standards for onsite sewage treatment and disposal

- Florida Statutes related to OSTDS

  Chapter 381 – Public Health: General Provisions

  Chapter 386 – Part I: Sanitary Nuisances

  Chapter 489 – Part III: Septic Tank Contracting

4.0 OSTDS Review Process

4.1 When can OSTDS be used?

No person shall install a new OSTDS or replace an existing OSTDS in whole or in part, if an approved public gravity sanitary sewer or approved sanitary sewer force main is available and operative in a public right-of-way or easement abutting the property in accordance with Section 24-43.1(7).

Residential, commercial and industrial properties that comply with section 24-43.1 can be served by an OSTDS when public sanitary sewers are not available or when the extension of public sanitary sewers to serve the property from the nearest available point of connection to an available public sanitary sewer is not within a "feasible distance".

Feasible distance shall apply when there is development and shall be calculated based on the TOTAL BUILDING AREA (not only the area under AC), according to section 24-43.4. Note that only for additions that are less than 25 percent of the total existing building area, feasible distance shall be calculated using the total floor area of the addition, not the total building area.

DO NOT SUBMIT PLANS INCLUDING AN OSTDS IF A PUBLIC SANITARY SEWER MAIN IS AVAILABLE AND OPERATIONAL OR IF A PUBLIC SANITARY SEWER MAIN IS WITHIN FEASIBLE DISTANCE.

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4.2 Where to submit plans

Note that the first step for any construction project subject to this guidance manual is to "submit" construction drawings to the Building Department having jurisdiction. Once a process number or construction permit number is provided by the Building Department, plans must be submitted for DERM approval.

Revisions to drawings after a DERM approval is obtained, along with the previously DERM-OSTDS approved sheets as reference, are also required to be submitted to DERM-OSTDS for review and approval.

New plans requiring DERM-OSTDS Review will exclusively be reviewed electronically by DERM Water and Wastewater Division engineers currently located at the Overtown Transit Village (OTV).

Plans shall be submitted electronically for DERM review by the applicant using the link to the web portal, shown below, and following the instructions under "Building Permit-Related Applications & Plans Submissions". All instructions are to be carefully read and followed to ensure a faster review process.

https://wwwx.miamidade.gov/Apps/RER/EPSPortal

For facilities located within a municipal Building Department utilizing the e-Municipal system, plans will be sent to DERM Plan Review using their electronic transfer protocols. Prior to uploading any plans to the web portal, the applicant should verify if the facility is located within a municipality whose Building Department uses the e-Municipal system.

4.3 When is DERM-OSTDS Review Required?

DERM-OSTDS review is required for construction of residential, commercial, and industrial establishments on properties that are not within feasible distance, do not have access to centralized sewage systems, and comply with section 24-43.1. The DERM-OSTDS review is also required for all existing OSTDS that need to be replaced in its entirety, meaning replacing the septic tank and drainfield. Existing systems, system modifications, and repairs that do not required complete replacement of the OSTDS do not require DERM-OSTDS review or approval.

4.3.1 Plan Review Process

Plan review is required for the following type of work:

- New construction residential, commercial, or industrial (subject to section 24-43.1)

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- Installation of a new OSTDS or complete replacement of existing OSTDS
  - Repairs that start with one component of the OSTDS broken but end up needing complete replacement
  - Addition of bedrooms for single family residences that required complete replacement of the OSTDS.
  - Any addition of building area for residential and commercial establishments that requires a new OSTDS or complete replacement of the existing OSTDS.
  - Any other modification to the property or change in use that requires a new OSTDS or complete replacement of the existing OSTDS.

Be aware that as per the Florida Board of Professional Engineers, PEs whose practice is to submit incomplete documents to an Authority Having Jurisdiction (AHJ) and using the review process as a method of Quality Assurance/ Quality Control run the risk of having their work considered to be negligently prepared and subject to discipline. Submit complete and properly dated, signed and sealed plans, engineering reports and permit application forms to this office for review and approval.

4.3.2 Required Documents for DERM Plan Review

The following information is required for the review of a new OSTDS or a complete replacement of the system.

- A site plan drawn to scale, labeled and with dimensions; that is signed, sealed, and dated by a Professional Engineer registered in the State of Florida (only documents that are digitally or electronically signed and sealed will be accepted) and contains the following:
  - The proposed OSTDS that has all its components clearly depicted and labeled, including the type of system, flow (per 62-6 FAC), and drainfield configuration and size.
  - Calculations of sewage flow and sewage loading based on the lot gross area and flows calculated per Chapter 24-43.1(5).
  - Calculations of sewage flow and OSTDS sizing based on the net lot size, flows and other requirements per Chapter 62-6 of the FAC.
  - Determination of the type of system based the proposed use and design requirements in Section 5 of this guidance.
  - Effluent parameters required for the type of systems to be installed and effluent parameters for the proposed system based on FDEP performance data or third-party testing (ANSI/NSF) performance parameters for the proposed system.
  - A cross section of the drainfield indicating a separation of at least 36” between the bottom of the drainfield and the seasonal high water table. Elevations for the grade, SHWT, and bottom of the drainfield must be included.
  - Location of water meter and water line from meter to building if connected to public water.

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- Location of potable water well and water line from well to building if served by a potable water well.
- 100 ft radius sanitary survey circles around potable well(s) and OSTDS(s), on the property and neighboring properties, if property is served by a potable water well.
- Setbacks with property lines, potable water lines, potable water wells, irrigation wells, surface water bodies, buildings, etc.
- Telemetry unit information (if required).

- The summary boxes in Figure 1 and Figure 2, shown below, shall be included in the site plans. Refer to Attachments 4 and 5 respectively for guidance for completing those summary boxes.

- A floor plan drawn to scale, labeled and with dimensions that shows the following:
  - The room distribution properly labeled.
  - Building(s) total gross area calculation including garage, storage, terrace, etc. For sewage loading and feasible distance calculations (Based on Ch. 24 requirements).
  - Building(s) total net area calculation for septic system flow calculations (Based on Ch. 62-6 requirements).

- A topographical and boundary survey including the centerline of the right or way and elevations. For new developments, elevations of adjacent properties shall be provided to demonstrate that stormwater shall not runoff into adjacent properties.

- Stormwater drainage plan. When drainage facilities are required to prevent stormwater runoff into an adjacent property, a drainage plan shall be required that complies with Chapter 24.

- Page 1 and page 3 of the Application for Construction (FDEP form 4015) (for verification purposes only)

- Isometric drawings (when a split system is proposed).
  - All fixture units and flow calculations for each system being proposed.
  - The sizing of each system based on the flow calculations.

- Supporting documentation
  - Complete third-party testing reports (e.g., from NSF) or FDEP performance data.
  - Documentation on the performance of any additional component (e.g., disinfection, phosphorus removal, filtration, etc.).
  - Drip irrigation calculations
  - Documentation on the telemetry unit (if required).

In Attachment 3 you can find the checklist used by DERM engineers for their review.

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DETERMINATION OF OSTDS TYPE AND STANDARDS PER SECTION 24-42.7

GROSS LOT SIZE = FT^2 = ACRES
LAND USE:
GROSS BUILDING AREA = FT^2
SEWAGE FLOW = GPD
SEWAGE LOADING = GPD / ACRES = GPD/ACRE

Y	N	CRITERIA FOR OSTDS TYPE SELECTION
		PROPERTY WILL BE SERVED BY PUBLIC WATER
		PROPERTY COMPLETELY OUTSIDE WELLFIELD PROTECTION AREA
		SURFACE WATER BODIES BEYOND 1000 FEET
		SEWAGE FLOW IS LESS THAN 500 GPD FOR SFR /DUPLEX
		SEWAGE FLOW IS LESS THAN 1000 GPD FOR MULTI-FAMILY/OTHER USES
		SEWAGE LOADING LESS THAN 500 GPD/ACRE

Y	N	OTHER CONSIDERATIONS FOR OSTDS APPROVAL
		SANITARY SEWERS NOT AVAILABLE, ABUTTING, OR OPERATIVE
		SYSTEM WILL SERVE ONLY ONE LOT
		PROPERTY LINES OVER 50 FEET FROM OSTDS FOR PROPERTIES SERVED BY A POTABLE WATER WELL

TYPE OF SYSTEM REQUIRED :
TOTAL NITROGEN TREATED BY:
TOTAL PHOSPHORUS TREATED BY:
FECAL COLIFORM TREATED BY:
SOURCE OF TREATMENT STANDARDS:

TREATMENT STANDARDS		
POLLUTANT	REQUIRED (mg/L) (ANNUAL AVERAGE)	PROPOSED (mg/L) (ANNUAL AVERAGE)
$CBOD_5$		
TSS		
TN		
TP		
FECAL COLIFORM (cfu/100ml)		

Figure 1. Determination of system type per Chapter 24

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OSTDS CALCULATIONS PER CHAPTER 62-6 F.A.C.

NET LOT SIZE = FT^2 = ACRES
LAND USE:
BUILDING AREA = FT^2

SEWAGE FLOW
MAXIMUM SEWAGE LOADING ALLOWANCE = GPD/ACRE (1,500 GPD/ACRE OR 2,500 GPD/ACRE)
AUTHORIZED SEWAGE FLOW = GPD/ACRE x ACRES = GPD
UNIT FLOW CRITERIA (PER TABLE 1):
SEWAGE FLOW PER UNIT FLOW =
TOTAL SEWAGE FLOW = GPD

TREATMENT TANK AND DRAINFIELD
PROPOSED SYSTEM:
MINIMUM REQUIRED TREATMENT CAPACITY = GPD
DRAINFIELD CONFIGURATION:
DRAINFIELD TYPE =
DRAINFIELD MATERIAL:
MAXIMUM SEWAGE LOADING RATE FOR THE PROPOSED DRAINFIELD = GAL/FT^2DAY
DRAINFIELD SIZE = GPD x GAL/FT^2DAY = FT^2

SEPARATION BETWEEN THE SHWT AND BOTTOM OF THE DRAINFIELD (ELEVATIONS IN NAVD 88)
GRADE ELEVATION = FT
SEASONAL HIGH WATER TABLE ELEVATION = FT
ELEVATION AT THE BOTTOM OF THE DRAINFIELD = FT
SEPARATION BETWEEN SHWT AND BOTTOM OF DRAINFIELD = INCHES

Figure 2. Calculations based on Chapter 62-6 FAC

5.0 OSTDS Design Requirements

Several factors must be considered when designing an OSTDS: the type of system (Type 2, Type 3 or Type 4), available space to install the OSTDS, sewage loading, distance from surface water bodies, location of property in reference to a wellfield protection area, site drainage, among others (Note that a Type 1 system, which corresponds to a standard or conventional septic system is no longer allowed in Miami-Dade County for new developments or complete replacement). All designs shall be prepared by a Florida Professional Engineer [Section 24.42.6(8)(a) of the Code]. See requirements below:

Each OSTDS shall comply with sections 24-42.7, 24-43, 24-43.1, 24-43.3 and 24-43.4.

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- Treatment units shall be approved by FDEP and be certified by NSF International Standard/American National Standard (NSF/ANSI) as 40-2013, 245-2013, or 350-2013, latest edition, or shall have an equivalent certification by a third party approved by the Director.

- Each OSTDS, including the reserved area, shall be located no less than 100 feet from any surface water body. This minimum distance shall not apply to replacement of systems installed prior to January 1, 2023, when site conditions and physical constraints prohibit compliance with the minimum distance, provided that the existing distance from any surface water body shall not be reduced.

- Where public water is not available, each OSTDS, including the reserved area, shall be located no less than 50 feet from all property lines. This minimum distance shall not apply to replacement of systems installed prior to January 1, 2023, when site conditions and physical constraints prohibit compliance with the minimum distance, provided that the existing distance from all property lines shall not be reduced.

- Each OSTDS shall serve only one lot.

- Sharing of OSTDSs by buildings or other users on separate lots is prohibited. DERM considers that lots that are joined by a unity of title, in a form acceptable to the Director and recorded in the public records of Miami-Dade County at the property owner's expense, shall be treated as a single lot, but lots joined by a declaration of restrictive covenants in lieu of unity of title shall be treated as separate lots.

- An OSTDS that was installed prior to January 1, 2023, and that serves two or more lots may remain, but if the entire existing OSTDS is replaced, then each parcel shall be required to be individually served by an OSTDS that complies with this section.

- The bottom of the drainfield or other disposal system shall be designed and installed no less than 36 inches above the wet season high water table as of the date of approval pursuant to this section. For purposes of this paragraph, the wet season high water table shall be the highest water level determined by either site-specific seasonal high water table soil indicators or the latest wet season high water table maps, which shall be maintained on file with the Department.

- Allowances by Chapter 62-6 F.A.C., for example, reduction of drainfield size and setbacks, are not allowed under Chapter 24, unless the engineer demonstrates by factual competent data and information

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that it is not technically possible to install a full size drainfield and that the overall pollutant reduction is equal to or greater than the pollutant reduction of an OSTDS without the requested allowance.

5.1 OSTDS Types

For purposes of DERM review, the OSTDSs are classified into the following types:

(a) *Type 1 OSTDS* shall mean a standard or conventional onsite sewage treatment and disposal system designed consistent with section 62-6.008, Florida Administrative Code, that is not otherwise defined herein as a Type 2, 3 or 4 OSTDS. A Type 1 OSTDS does not require a remote telemetry unit. No new OSTDS or replacement of an entire (existing) OSTDS may be a Type 1 OSTDS.

(b) *Type 2 OSTDS* shall mean an onsite sewage treatment and disposal system that produces an effluent that, prior to reaching the drainfield or disposal system, complies with Secondary Treatment Standards established in chapter 62-6, Florida Administrative Code. A Type 2 OSTDS does not require a remote telemetry unit.

(c) *Type 3 OSTDS* shall mean an onsite sewage treatment and disposal system that produces an effluent that, prior to reaching the drainfield or disposal system, complies with Advanced Secondary Treatment Standards established in chapter 62-6, Florida Administrative Code.

(d) *Type 4 OSTDS* shall mean an onsite sewage treatment and disposal system that produces an effluent that, prior to reaching the drainfield or disposal system, complies with the Florida Keys nutrient reduction treatment standards established in chapter 62-6, Florida Administrative Code.

(e) All *Type 3 OSTDS* and *Type 4 OSTDS* shall be equipped with a remote telemetry unit, except that for single family residences and duplexes, a remote telemetry unit shall not be required. A remote telemetry unit equipped for a Type 3, or 4 OSTDS shall provide operational status of the system at a frequency of no less than 15 minutes. Operational status shall include, at a minimum, signal and connectivity, back-up battery, power, mechanical equipment, liquid levels, warnings, and alarms.

Table 1, below, provides the treatment standards as defined by Chapter 62-6 FAC.

Attachments 1 and 2 contain flowcharts that can be used to determine the OSTDS type required.

Examples of type 2, 3 and 4 systems are included in Attachment 6.

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Table 1. Performance-Based Treatment System Standards

POLLUTANT	Design Influent Value	Aerobic Treatment Unit Standards NSF40	Aerobic Treatment Unit Standards NSF245	Secondary Treatment Standards	Secondary Treatment Standards with Soil Treatment	Advanced Secondary Treatment Standards	Advanced Secondary Treatment Standards with Soil Treatment	Florida Keys Nutrient Reduction Standards	Advanced Wastewater Treatment Standards
$CBOD_5$ (mg/L)									
-annual average	200	20	20	**20**	2	**10**	1	**10**	5
-individual sample		60	60	**60**	6	**30**	3	**30**	10
-removal		90%	90%	**90%**	99%	**95%**	99.50%	**95%**	97%
TSS (mg/L)									
-annual average	200	20	20	**20**	2	**10**	1	**10**	5
-individual sample		60	60	**60**	6	**30**	3	**30**	10
-removal		90%	90%	**90%**	99%	**95%**	99.50%	**95%**	97%
TN (mg/L)									
-annual average	60	NR**	30	**NR**		**30**	21	**10**	3
-individual sample			50			**50**	35	**40**	6
-removal			50%			**50%**	65%	**70%**	95%
TP (mg/L)									
-annual average	10	NR	NR	**NR**		**10**	7	**1**	1
-individual sample						**20**	14	**4**	2
-removal						**0**	30%	**80%**	90%
Fecal coliform (cfu or MPN/100ml)									
-annual average	2.00E+06	NR	NR	**200**	2	**200**	2	**NR (Footnote 3)**	1
-individual sample				**800**	8	**800**	8		25
-percent reduction				**99.99%**	100.00%	**99.99%**	100.00%		100.00%

* NA = Not applicable

** NR = No requirement

Footnote 1. Where chlorine is used for disinfection in a system designed to meet advanced wastewater treatment standard for fecal coliform the design must include provisions for rapid and uniform mixing; and the total chlorine residual of at least 1.0 mg/l must be maintained at all times. The minimum acceptable contact time must be 15 minutes at the peak hourly flow. No individual sample must exceed 5 mg/L TSS after the last treatment step before application of the disinfectant.

Footnote 2. Where chlorine is used for disinfection in a system designed to meet either the secondary treatment standard or the advanced secondary treatment standard for fecal coliform, the design must include provisions for rapid and uniform mixing and a total chlorine residual of at least 0.5 mg/l must be maintained after at least 15 minutes contact time at the peak hourly flow.

Footnote 3. Where discharge is to an injection well, disinfection must meet the requirements for advanced secondary treatment standards.

Footnote 4. Performance-based treatment systems (PBTS) designed to meet Aerobic Treatment Unit (ATU) standards may be permitted where ATUs are required, for example by county or city ordinance. An ATU not permitted as a component of a PBTS must comply with Rule 62-6.012, F.A.C.

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5.2 Calculations per Chapter 24

Flow

For purposes to determine sewage flows for sanitary sewers and the maximum allowable septic tank sewage loading requirements DERM utilizes the flows under Section 24-43.1(5) of the Miami-Dade County Code.

These flows shall not replace the flows in Table I of Chapter 62-6 FAC for sizing and design of OSTDS.

Lot Size and Sewage Loading for Properties Served by an OSTDS

A minimum lot size is required for the development of a single-family residence or duplex. This minimum lot size varies based on the source of potable water. For other residential and non-residential properties, the limiting development criteria is sewage loading.

Sewage loading is the total sewage flow generated by the existing or proposed uses on a property, using the flow rates in Section 24-43.1(5), divided by the unsubmerged gross area (in acres) of the property.

(a) Where public water is used:

(i) The minimum lot size for a single-family residence shall be fifteen thousand (15,000) square feet of unsubmerged land
(ii) The minimum lot size for a duplex residence shall be twenty thousand (20,000) square feet of unsubmerged land
(iii) The maximum sewage loading for all other residential and nonresidential uses shall be one thousand five hundred (1,500) gallons per day per unsubmerged acre

(b) Where public water is not used:

(i) The minimum lot size for a single-family residence shall be twenty thousand three hundred twenty-eight (20,328) square feet of unsubmerged land
(ii) The minimum lot size for a duplex residence shall be twenty-nine thousand forty (29,040) square feet of unsubmerged land
(iii) The maximum sewage loading for all other residential and nonresidential uses shall be seven hundred fifty (750) gallons per day per unsubmerged acre

Note: Properties within wellfield protection areas (WPA) may have more stringent sewage loading requirements, depending on location of the property within the WPA.

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6.0 Setbacks

6.1 Setbacks under Chapter 24

There are only three setbacks listed under Chapter 24:

SETBACK	DISTANCE [ft]
Minimum distance from a surface water body	100
Minimum distance from a potable water well	100
Minimum distance from any part of the OSTDS to the property lines when the property is served by a potable water well	50

6.2 Setbacks under Chapter 62-6 FAC

There are several setbacks listed under Chapter 62-6 FAC that are also enforced by DERM. Some of which are listed below:

SETBACK	DISTANCE [ft]
Minimum distance from the property line	5
Minimum distance from building foundations	5
Minimum distance from swimming pool walls	5
Minimum distance from a potable water line	10
Minimum distance from a public water well as defined in 62-6.002(44)(d) FAC	200
Minimum distance from a non-potable water well	50
Minimum distance from groundwater interceptor drains	15
Minimum distance from the design high water line of a swale	15

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7.0 Attachments

Attachment 1	Review Flow Chart for SFR and Duplex
Attachment 2	Review Flow Chart for Multi-Family Residences and Other Uses
Attachment 3	OSTDS Plan Review Checklist
Attachment 4	Example - OSTDS Box System Type Determination Based on Chapter 24 Requirements
Attachment 5	Example - OSTDS Box for Calculations Based on Chapter 62-6 FAC
Attachment 6	Examples (as a separate document)

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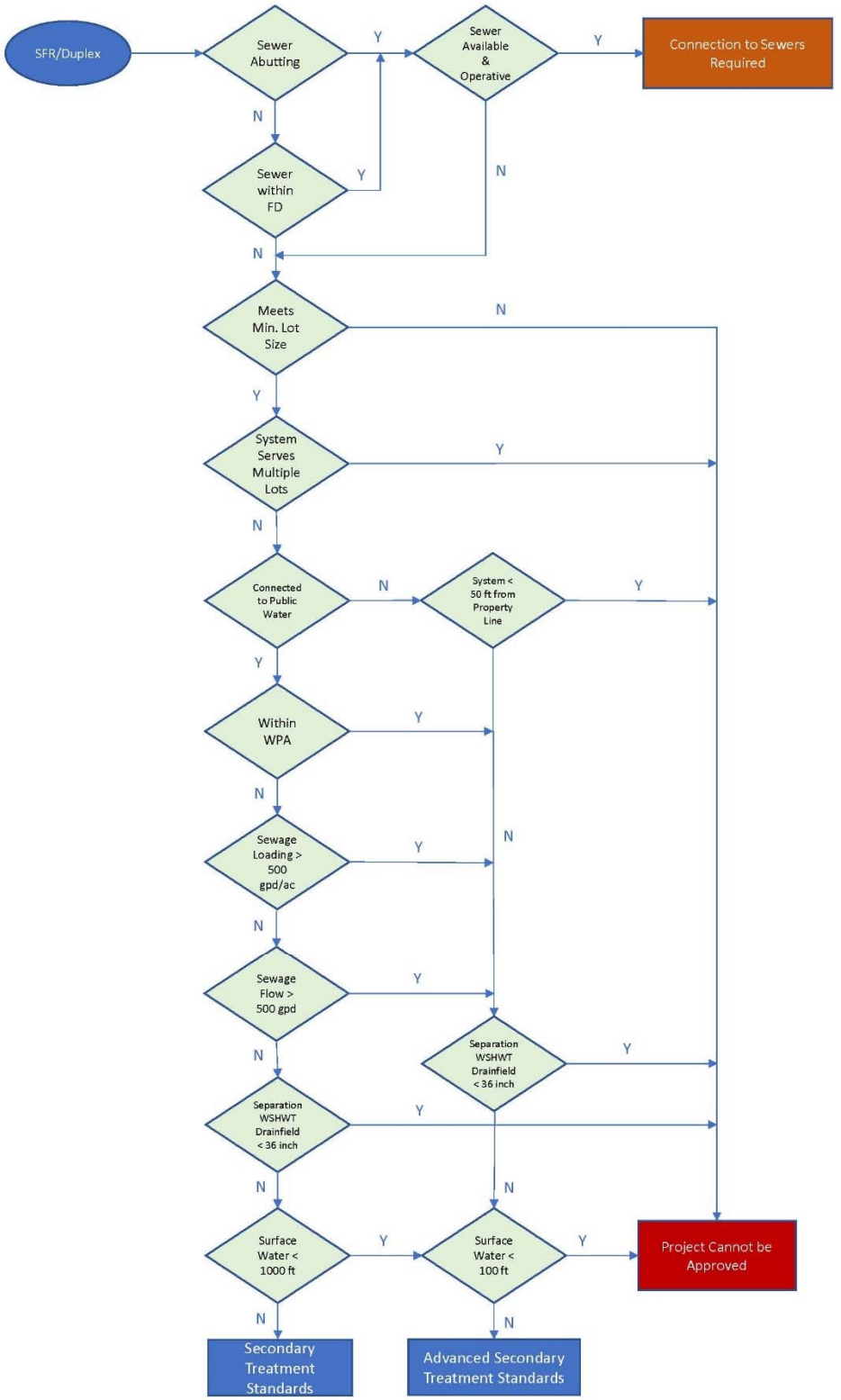
ATTACHMENT 1

OSTDS FOR SINGLE A FAMILY RESIDENCE OR DUPLEX



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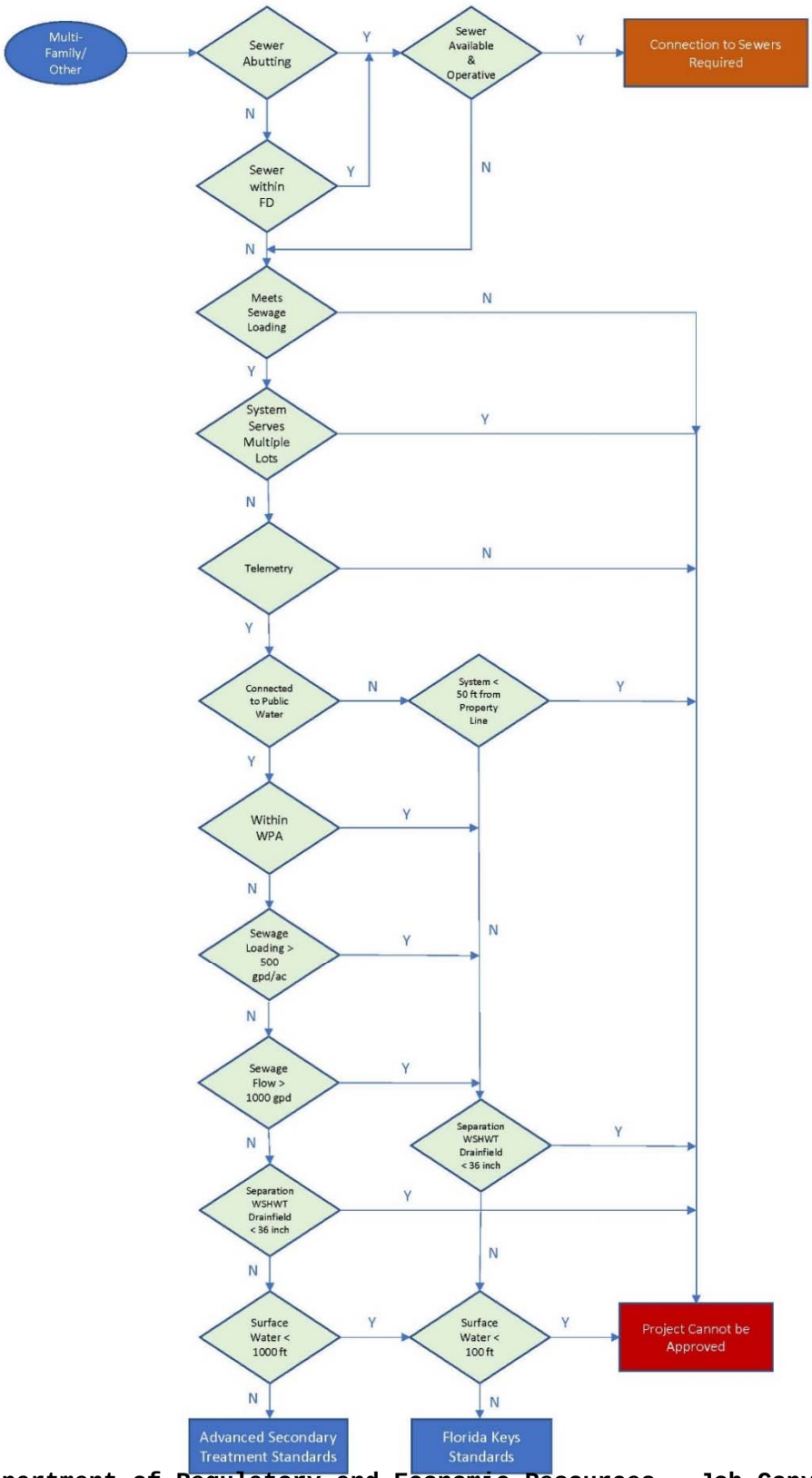
ATTACHMENT 2

OSTDS FOR MULTI-FAMILY RESIDENCE AND OTHER USES



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ATTACHMENT 3

DERM-OSTDS PLAN REVIEW CHECKLIST

Process # _____

Accepted	Not Accepted	N/A	REVIEW ITEM/PARAMETER
			1. General
			Electronic plans being submitted are legible and include Facility name, address (include unit/bay).
			Architectural, Civil, and Plumbing drawings match (where applicable)
			Drawings indicate Type of Establishment, i.e. full service restaurant, cafeteria, office, multi-family residence, single family residence, duplex, etc.
			Drawings indicate all the parameters to estimate the sewage flow according to Chapter 24 and Chapter 62-2 of the F.A.C., i.e. area, number of seats, number of bathrooms, number of students, practicioners, etc.
			Drawings clearly show existing areas and proposed modifications where applicable.
			Sewer line abutting.
			Sewer line within feasible distance.
			Property located within a wellfield protection area.
			Seasonal high water table elevation using the North American Vertical Datum of 1988 (NAVD 88).
			2. Site Plan
			Signeded/sealed/dated by a Professional Engineer registered in the State of Flodida.
			Drawn to scale, properly labeled, and with dimensions.
			Summary boxes as per guidelines.
			Gross and net lot areas, in square feet and acres.
			Location of meter and water line from meter to building if connected to public water.
			Location of potable water well and water line from well to building if served by a potable water well.
			Proposed system clearly depicted, including the type of system, flow, drainfield configuration and size (including reserve).
			FDEP or third party certification for the proposed system (ANSI/NSF).
			Characteristics of the system effluent based on third party annual average testing results and level of treatment design.
			Grade elevation (based on survey) at proposed location of the drainfield using the North American Vertical Datum of 1988 (NAVD 88).
			Profile of the drainfield indicating a separation of at least 36" between bottom of the drainfield and wet season high water table.
			Flow calculations based on Chapter 24 of the Miami-Dade County Code.
			Flow calculations based on Chapter 62-6 Florida Administrative Code.
			Sewage flow (per Ch 24) < 500 gpd for SFR/Duplex or < 1000 gpd for Commercial.
			Sewage loading (per Ch 24) < 500 gpd/acre.
			50 ft setback with property lines if property served by a potable water well.
			Meets minimum 100 ft setback with private potable water wells or 200 ft with public water systems (PWS).
			Meets minimum setback of 100 ft with surface water bodies.
			No surface water bodies located within 1,000 ft from closest property line.
			Drainfield calculations based on Chapter 62-6 flows.
			3. Floor Plan
			Drawn to scale, properly labeled, and with dimensions.
			Building(s) total gross area calculation including garage, storage, terrace, etc. For sewage loading and feasible distance calculations.
			Building(s) total net area calculation for septic system flow calculations (Based on Ch. 62-6).

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Accepted	Not Accepted	N/A	REVIEW ITEM/PARAMETER
4. Telemetry for multi-family residences (other than SFR or duplex) and other uses			
			Provides operational status of system at a frequency of no less than 15 minutes. At a minimum, it shall include:
			a) Power
			b) Signal and connectivity
			c) Back-up batery
			d) Mechanical equipment
			e) Liquid levels
			f) Warnings
			g) Alarms
5. Additional/Supporting documentation			
			Boundary survey with elevations
			FDEP data or third party testing results
			FDEP application (FDEP form 4015)
			Specifications for level of treatment
			Documentation for each treatment component of the proposed system (e.g. disinfection, phosphorus removal, etc.

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ATTACHMENT 4

DETERMINATION OF OSTDS TYPE AND STANDARDS PER SECTION 24-42.7

GROSS LOT SIZE = _____ FT^2 = _____ ACRES
LAND USE: _____
GROSS BUILDING AREA = _____ FT^2
SEWAGE FLOW = _____ GPD
SEWAGE LOADING = _____ GPD / _____ ACRES = _____ GPD/ACRE

Y	N	CRITERIA FOR OSTDS TYPE SELECTION
		PROPERTY WILL BE SERVED BY PUBLIC WATER
		PROPERTY COMPLETELY OUTSIDE WELLFIELD PROTECTION AREA
		SURFACE WATER BODIES BEYOND 1000 FEET
		SEWAGE FLOW IS LESS THAN 500 GPD FOR SFR /DUPLEX
		SEWAGE FLOW IS LESS THAN 1000 GPD FOR MULTI-FAMILY/OTHER USES
		SEWAGE LOADING LESS THAN 500 GPD/ACRE

Y	N	OTHER CONSIDERATIONS FOR OSTDS APPROVAL
		SANITARY SEWERS NOT AVAILABLE, ABUTTING, OR OPERATIVE
		SYSTEM WILL SERVE ONLY ONE LOT
		PROPERTY LINES OVER 50 FEET FROM OSTDS FOR PROPERTIES SERVED BY A POTABLE WATER WELL

TYPE OF SYSTEM REQUIRED : _____
TOTAL NITROGEN TREATED BY : _____
TOTAL PHOSPHORUS TREATED BY : _____
FECAL COLIFORM TREATED BY : _____
SOURCE OF TREATMENT STANDARDS : _____

TREATMENT STANDARDS		
POLLUTANT	REQUIRED (mg/L) (ANNUAL AVERAGE)	PROPOSED (mg/L) (ANNUAL AVERAGE)
$CBOD_5$		
TSS		
TN		
TP		
FECAL COLIFORM (cfu/100ml)		

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- Gross lot size – Is the total unsubmerged area. Shall be calculated to include the right-of-way up to the center line of the road. The gross lot size shall be calculated in square feet and in acres.
- Land use – This is the proposed use of the property: single family residence, duplex, multifamily residence, non-residential, etc.
- Gross building area – This should include all covered areas, not only areas under AC. Garages, terraces, etc., should be included.
- Sewage flow – The sewage flow shall be calculated based on the unit flow rate in Section 24-43.1(5) of the Miami-Dade County Code.
- Sewage loading – Is the sewage flow in (GPD) divided by the gross area in (acres).
- Criteria for OSTDS type selection and other considerations – A series of Yes/No questions, regarding the characteristics of the project, that will help determine the type of system needed (see section 5.1 above for the system types). For most of the projects, any answer of "N" will trigger the next level of treatment, or in some cases will make the project not approvable.
- Type of system required – The proposed type of system, based on the project characteristics (Type 2, 3 or 4).
- Total Nitrogen Treated by – For most cases, total nitrogen will be treated by the selected system: e.g., Norweco TNT, Fuji clean CEN, Bio-Microbics MicroFast, etc. If additional treatment is required, that method of treatment should also be listed in this field.
- Total Phosphorus Treated by – Type 2 and standard type 3 systems do not require treatment for total phosphorus; however, for type 3 systems where the parameters need adjustment, treatment for total phosphorus will be required and the level of treatment shall be adjusted as with the other parameters. Type 4 systems require a higher level of treatment for total phosphorus to meet Florida Keys Nutrient Reduction Standards. The treatment method shall be selected from the FDEP list of approved systems.
- Fecal coliform treated by – In this field the disinfection method by which fecal coliform will be treated must be listed. Currently the only method accepted by the State is chlorination/dechlorination.
- Source of treatment standards – In this field the source of the proposed level of treatment must be listed. For the most projects this will be "The Testing Performance Data for Components of Performance Based Treatment Systems" or NSF reports. Please note that if NSF reports are used, the full report must be uploaded with your submittal.
- Treatment Standards – Under the "Required" column, list the minimum level of treatment required for your project. Under the "Proposed" column, provide the level of treatment for the system being proposed. This information needs to be backed up by FDEP testing reports, or NSF third party testing reports.

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ATTACHMENT 5

OSTDS CALCULATIONS PER CHAPTER 62-6 F.A.C.

NET LOT SIZE = _____ FT^2 = _____ ACRES
LAND USE: _____
BUILDING AREA = _____ FT^2

SEWAGE FLOW
MAXIMUM SEWAGE LOADING ALLOWANCE = ____ GPD/ACRE (1,500 GPD/ACRE OR 2,500 GPD/ACRE)
AUTHORIZED SEWAGE FLOW = _____ GPD/ACRE x _____ ACRES = _____ GPD
UNIT FLOW CRITERIA (PER TABLE 1) : _____
SEWAGE FLOW PER UNIT FLOW = _____
TOTAL SEWAGE FLOW = _____ GPD

TREATMENT TANK AND DRAINFIELD
PROPOSED SYSTEM : _____
MINIMUM REQUIRED TREATMENT CAPACITY = _____ GPD
DRAINFIELD CONFIGURATION : _____
DRAINFIELD TYPE = _____
DRAINFIELD MATERIAL : _____
MAXIMUM SEWAGE LOADING RATE FOR THE PROPOSED DRAINFIELD = _____ GAL/FT^2DAY
DRAINFIELD SIZE = _____ GPD / _____ GAL/FT^2DAY = _____ FT^2

SEPARATION BETWEEN THE SHWT AND BOTTOM OF THE DRAINFIELD (ELEVATIONS IN NAVD 88)
GRADE ELEVATION = _____ FT
SEASONAL HIGH WATER TABLE ELEVATION = _____ FT
ELEVATION AT THE BOTTOM OF THE DRAINFIELD = _____ FT
SEPARATION BETWEEN SHWT AND BOTTOM OF DRAINFIELD = ____ INCHES

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- Net lot size – Shall be calculated as the area within the property lines. In some cases the area as defined by 62-6 FAC can be used. The net lot size shall be calculated in square feet and in acres.
- Land use – This is the proposed use. This will be used for the determination of sewage flow using Table I of Chapter 62-6 FAC.
- Building area – this area should be the building area as defined by 62-6 FAC.
- Maximum sewage loading allowance – this would be, as stated in 62-6 FAC, 2,500 gpd/acre if the property is served by public water and 1,500 gpd/acre if the property is served by a potable water well.
- Authorized sewage flow – this is the maximum sewage flow that can be allowed for the proposed use. It is calculated as the lot size (in acres) times the maximum sewage loading allowance.
- Unit flow criteria (table I) – this is the base flow criteria in table I, in 62-6 FAC, that will be used to calculate the sewage flow: building area, number of bedrooms, number of students, practitioners, etc.
- Total sewage flow – This is the sewage flow calculated based on the unit flows in table I, in 62-6 FAC.
- Proposed system – This is the treatment system that is being proposed, for example, Norweco TNT 500 with chlorination/dichlorination.
- Minimum required treatment capacity – This is the proposed system minimum capacity. For most cases, this value will be the same as the total sewage flow.
- Drainfield configuration – Proposed drainfield configuration, bed or trench.
- Drainfield type – Proposed drainfield type, standard, filled, or mound.
- Drainfield material – Proposed material, cambers, drip irrigation, etc.
- Maximum sewage loading rate for the proposed drainfield – Values tabulated for bed and trench configuration on table III, 62-6 FAC.
- Drainfield size – Calculated as the total sewage flow divided by the maximum sewage loading rate.
- Grade elevation – Elevation as per survey and measurements at soil boring locations.
- Seasonal high water table elevation – Estimated based on soil indicators, USDA soil survey, or contour map. If multiple methods area used, the one that provides the highest value shall be used.
- Elevation at the bottom of the drainfield – Proposed bottom of drainfield elevation.
- Separation between SHWT and bottom of the drainfield – The difference in elevation between the bottom of the drainfield and the SHWT, converted to inches. As per new code requirements this separation must be at a minimum 36 inches.

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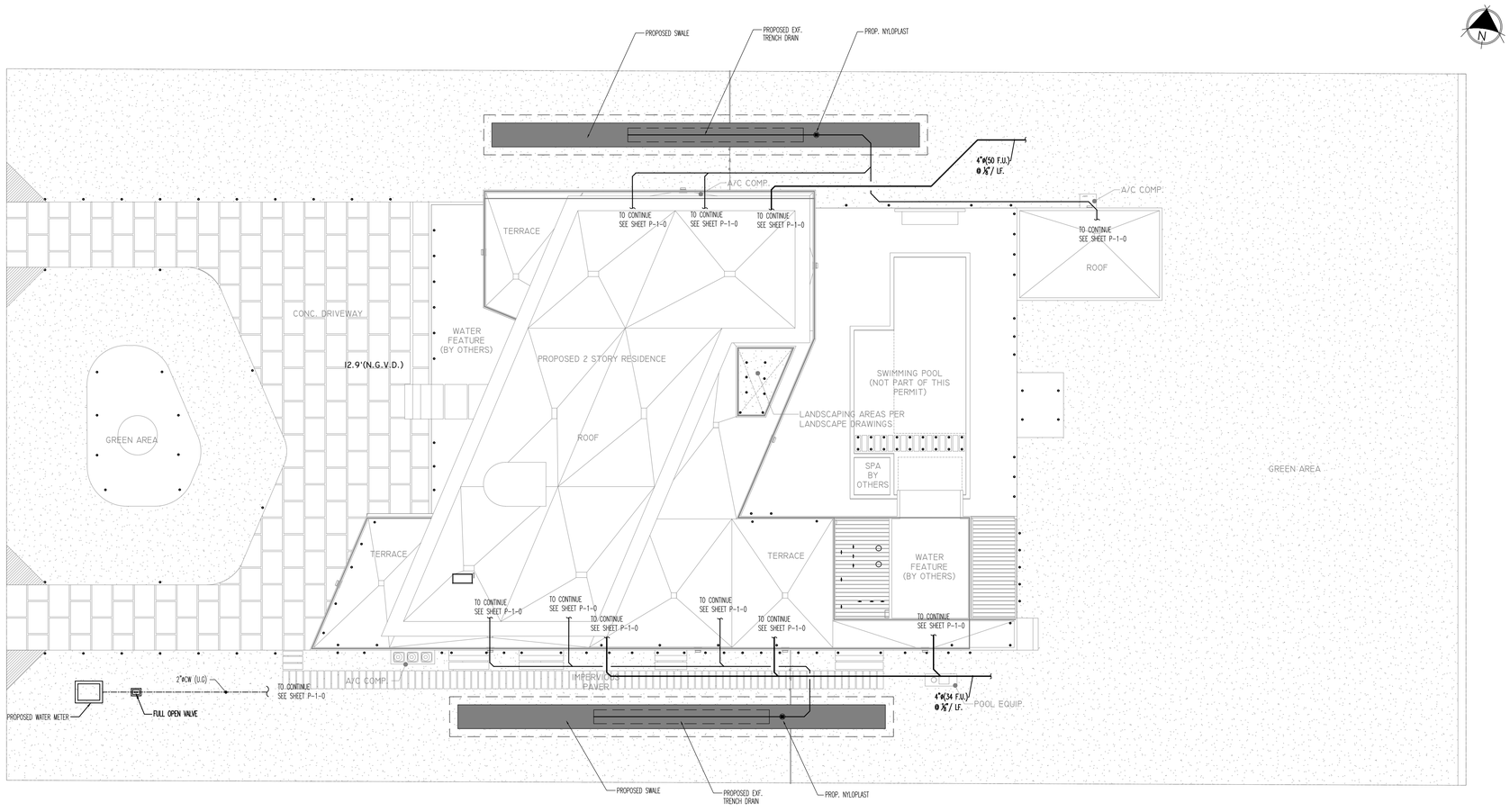

1 P-0-1 PLUMBING SITE PLAN
1/16" = 1'-0"

N

1

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1	10/24/23	B.D.C	

FIDANZA'S FAMILY HOUSE
NEW CONSTRUCTION
11041 SW 77TH AVE, PINECREST, FL 33156

Corporation Licence #AA0003589

Architectural Seal

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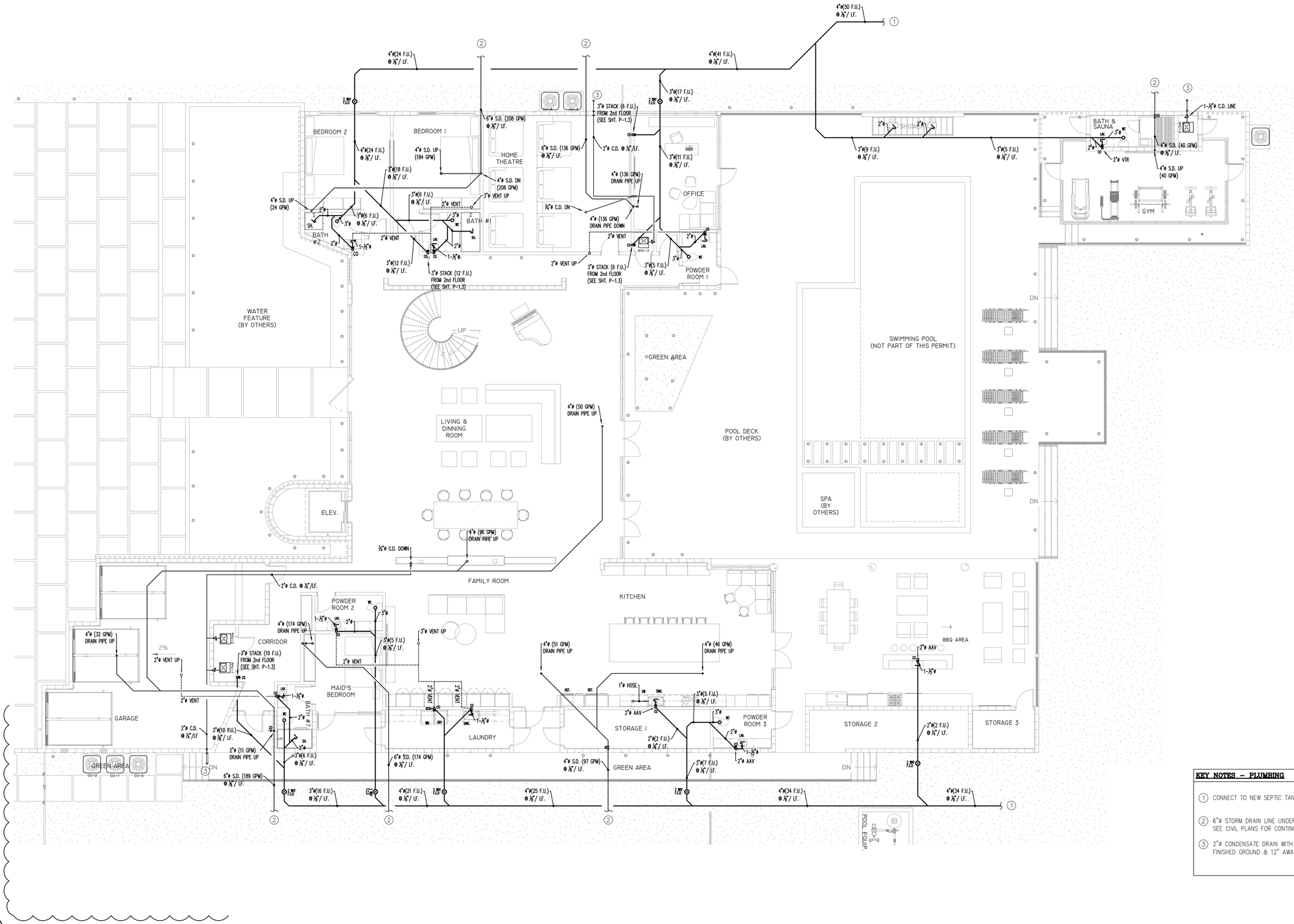

KEY NOTES – PLUMBING

1. CONNECT TO NEW SEPTIC TANK SYSTEM (BY OTHERS)
2. 6"ø STORM DRAIN LINE UNDERGROUND TO EXFILTRATION TRENCH. SEE CIVIL PLANS FOR CONTINUATION.
3. 2"ø CONDENSATE DRAIN WITH GOOSENECK TO TERMINATE 6" ABOVE FINISHED GROUND & 12" AWAY FROM WALL

I P-1-0 PLUMBING GROUND FLOOR - SANITARY PLAN
1/8" = 1'-0"

N

REVISIONS

Rev.	Date	Description
1	10/24/23	B.D.C

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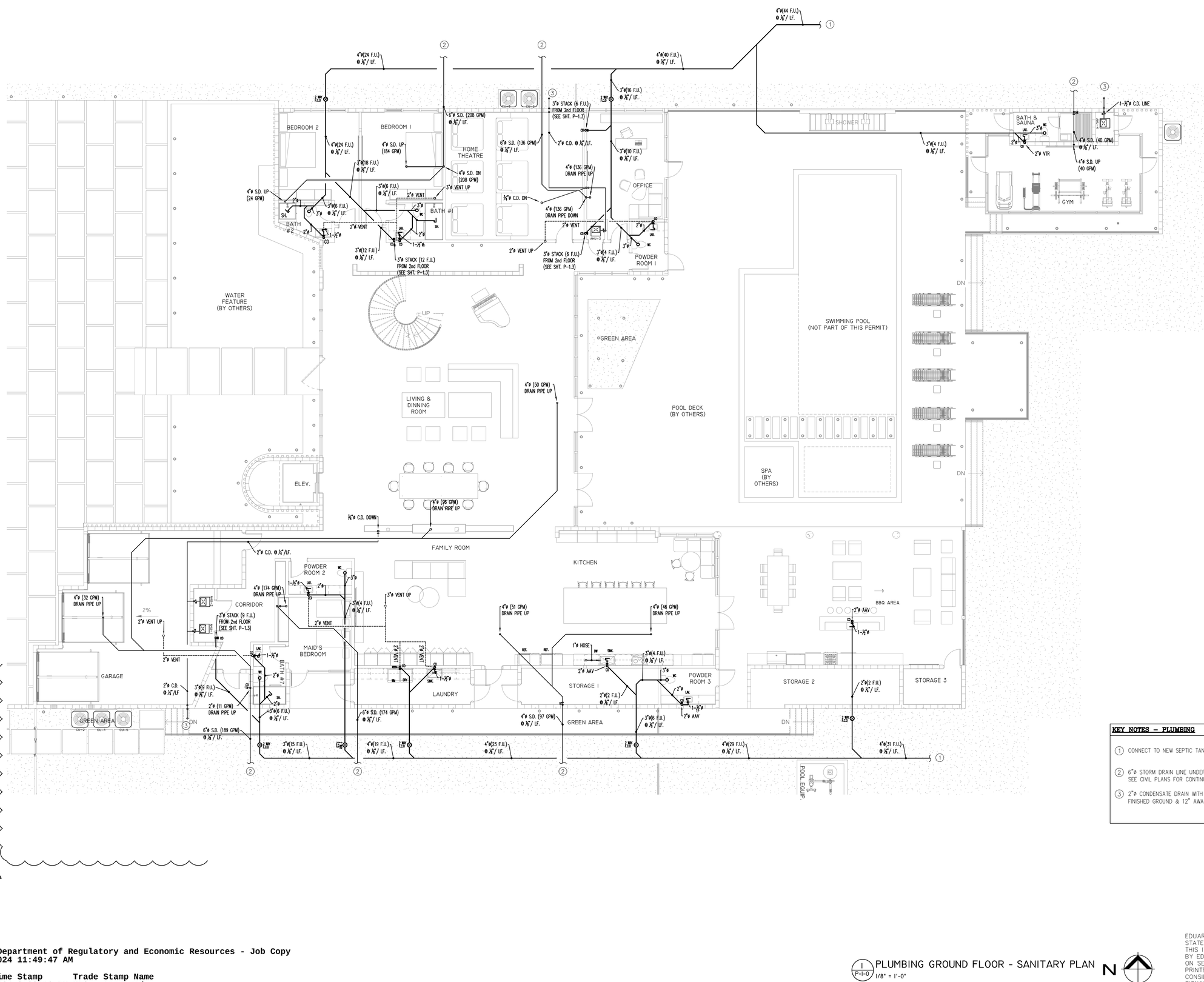

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3. 2"ø CONDENSATE DRAIN WITH GOOSENECK TO TERMINATE 6" ABOVE FINISHED GROUND & 12" AWAY FROM WALL

I P-1-0 PLUMBING GROUND FLOOR - SANITARY PLAN
1/8" = 1'-0"

N

Eduardo A Barreto

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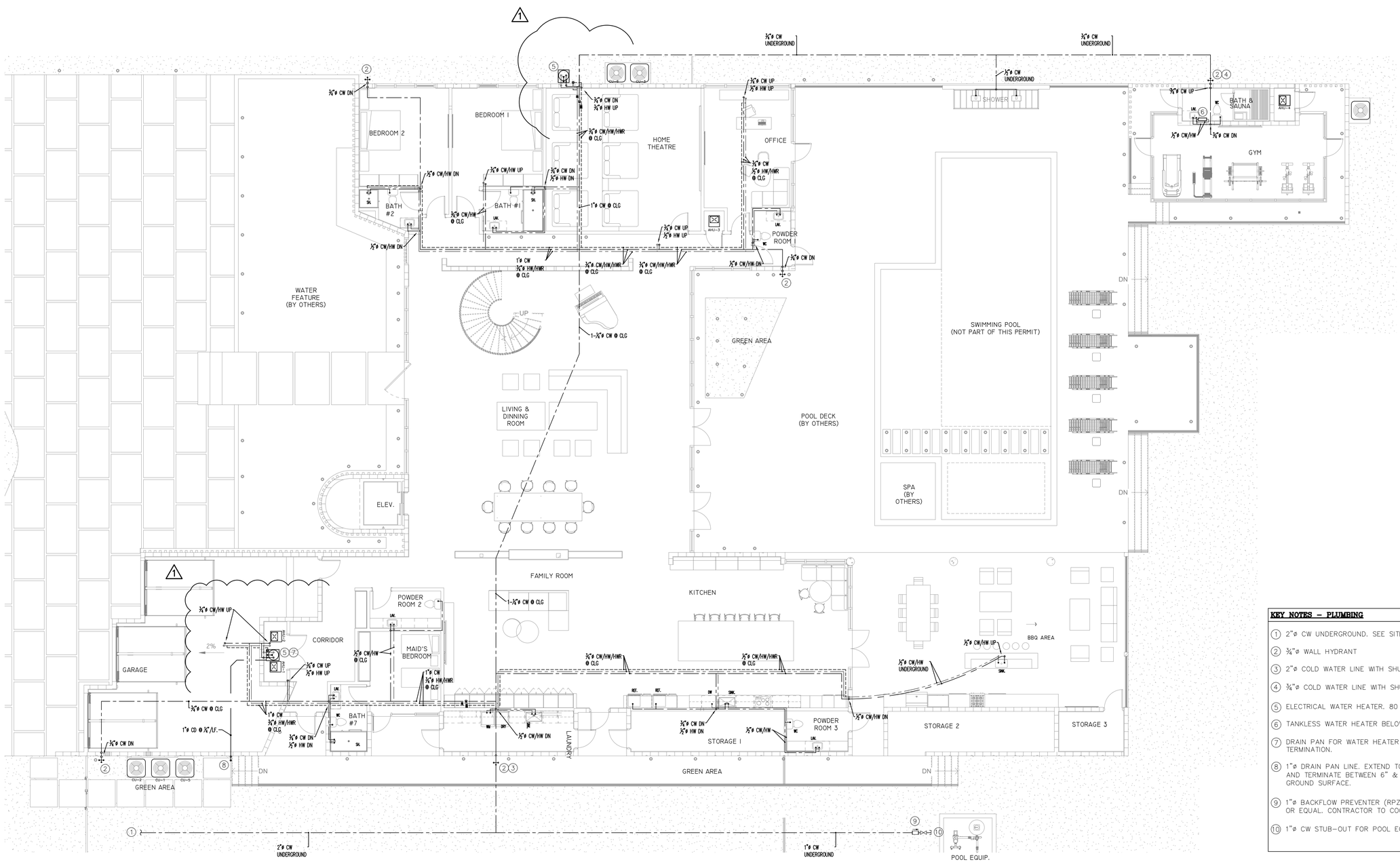

KEY NOTES – PLUMBING

1. 2"ø CW UNDERGROUND. SEE SITE PLAN FOR CONTINUATION
2. 3/4"ø WALL HYDRANT
3. 2"ø COLD WATER LINE WITH SHUT–OFF VALVE IN VERTICAL
4. 3/4"ø COLD WATER LINE WITH SHUT–OFF VALVE IN VERTICAL
5. ELECTRICAL WATER HEATER. 80 GALLON TANK. SEE DETAILS.
6. TANKLESS WATER HEATER BELOW COUNTER. SEE DETAILS.
7. DRAIN PAN FOR WATER HEATER P&T RELIEF LINE TERMINATION.
8. 1"ø DRAIN PAN LINE. EXTEND TO EXTERIOR OF BUILDING AND TERMINATE BETWEEN 6" & 24" ABOVE ADJACENT GROUND SURFACE.
9. 1"ø BACKFLOW PREVENTER (RPZ) WATTZ MODEL SERIES 009 OR EQUAL. CONTRACTOR TO COORDINATE FINAL LOCATION.
10. 1"ø CW STUB–OUT FOR POOL EQUIPMENT CONNECTION

1 P-1-1 PLUMBING GROUND FLOOR - WATER PLAN
3/16" = 1'-0"

N

Eduardo A Barreto

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REVISIONS

Rev.	Date	Description
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FIDANZA'S FAMILY HOUSE
NEW CONSTRUCTION
11041 SW 77TH AVE, PINECREST, FL 33156

Corporation Licence #AA0003589

Architectural Seal

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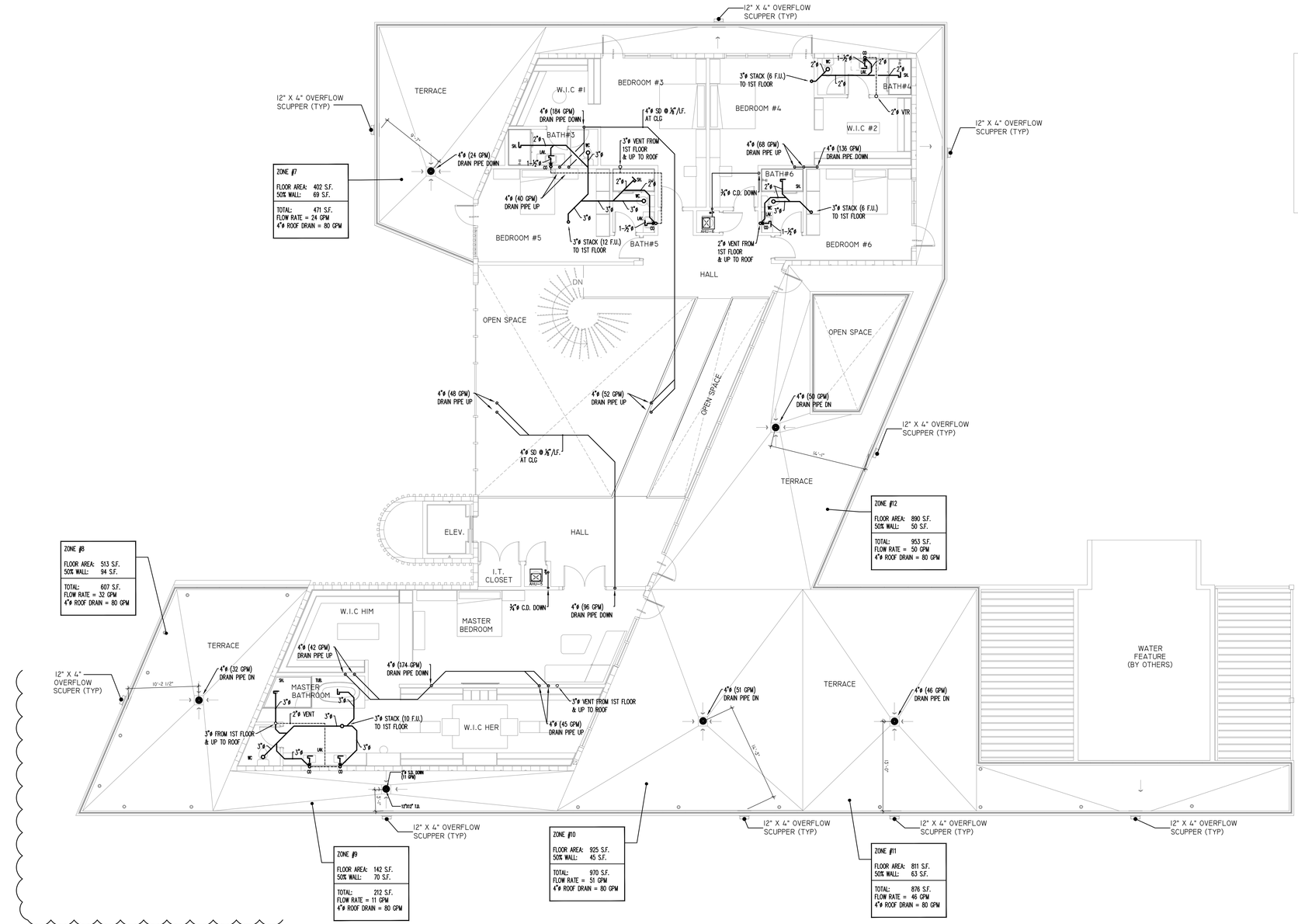
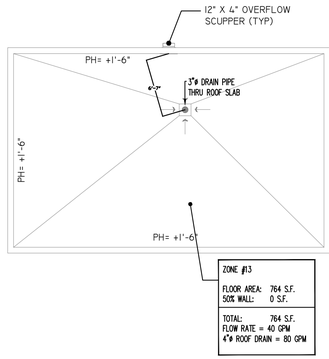
P-1-1 - GROUND FLOOR - WATER.pdf





1 P-1-2 PLUMBING SECOND FLOOR - SANITARY PLAN
1/8" = 1'-0"

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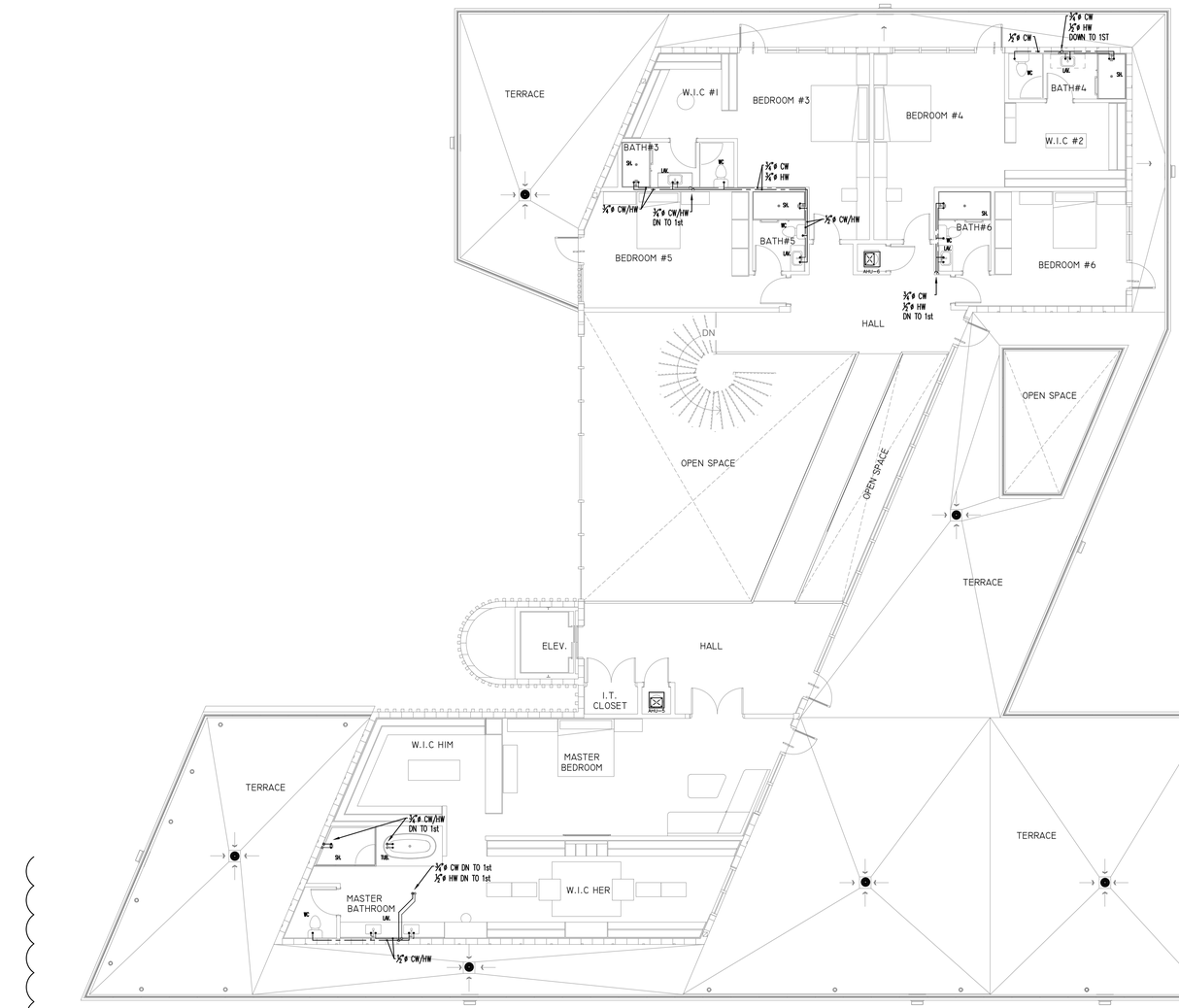

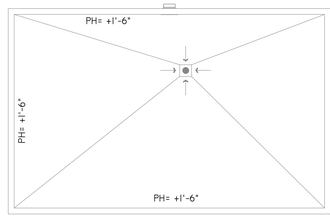

1 P-1-3 PLUMBING SECOND FLOOR - WATER PLAN
1/8" = 1'-0"

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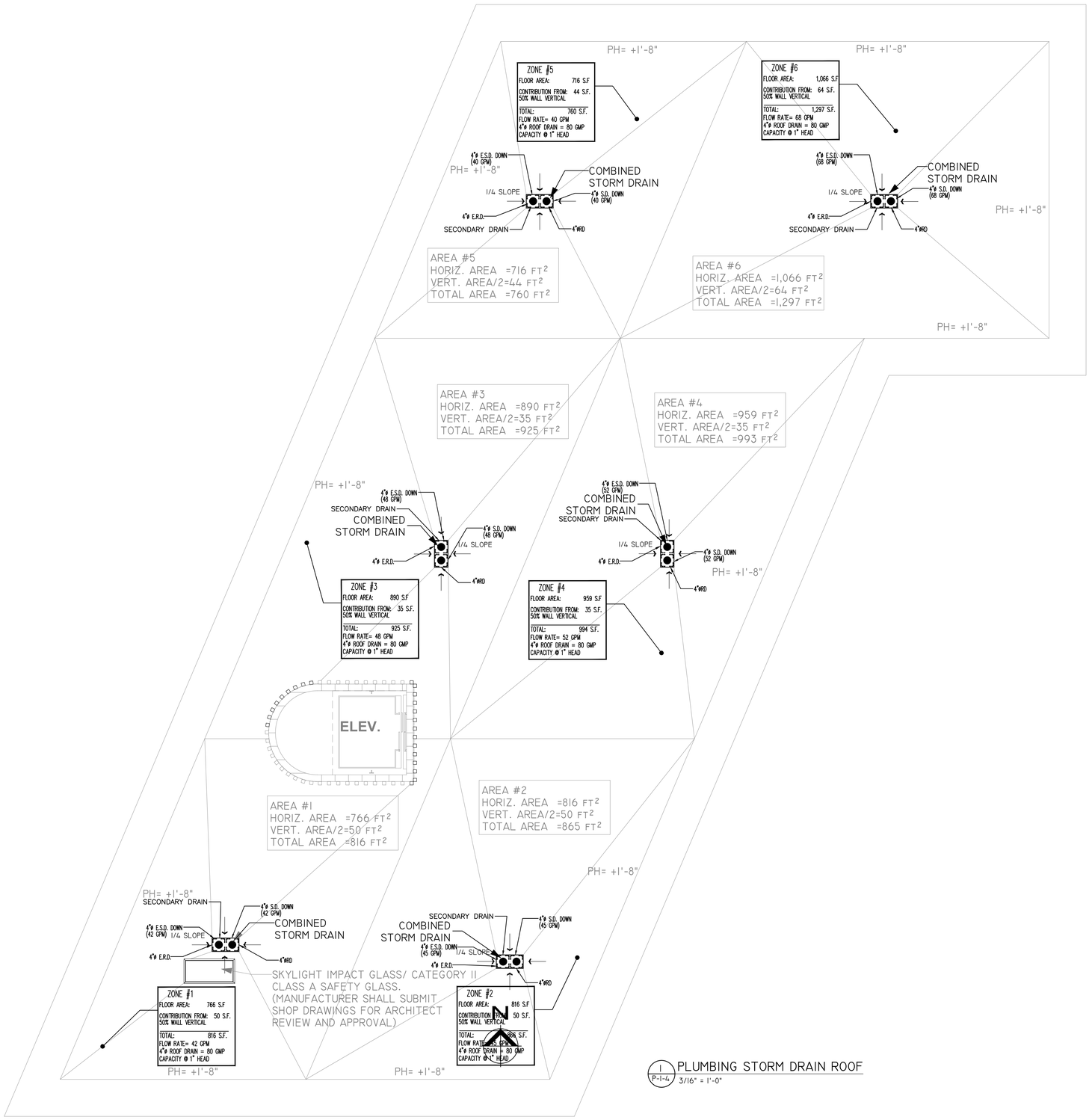

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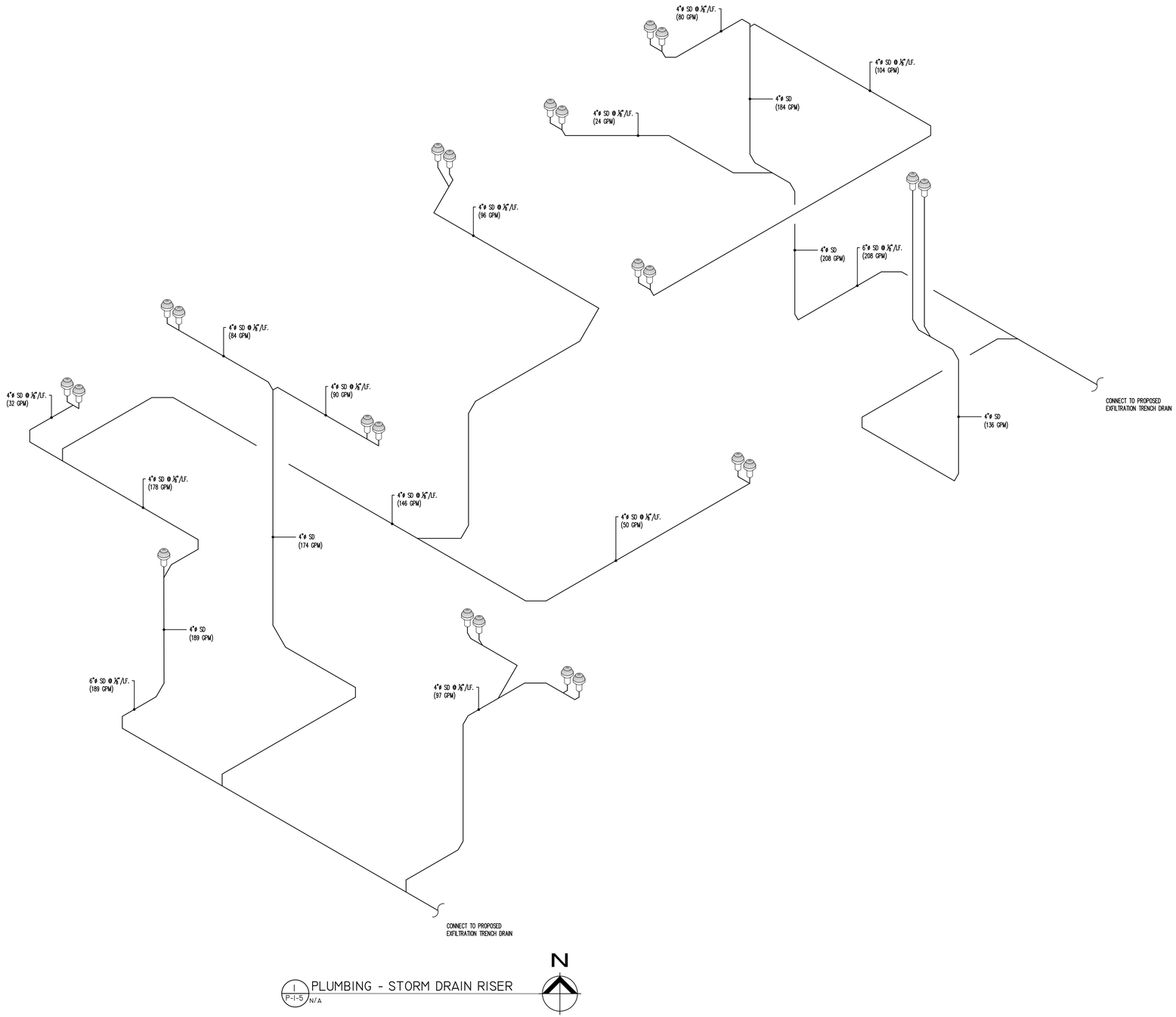
P-1-4 - ROOF PLAN.pdf



1 P-1-5 PLUMBING - STORM DRAIN RISER
N/A

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P-1-5 - STORM DRAIN RISER.pdf

MAXIMUM FLOW RATE AND CONSUMPTION FOR PLUMBING FIXTURES, FIXTURE FITTINGS AND APPLIANCES. TABLE 2903.2a	
PLUMBING FIXTURE OR FIXTURE FITTING	PLUMBING FIXTURE OR FIXTURE FITTING MAXIMUM FLOW RATE. (b)
LAVATORY, PRIVATE	1.5 GPM @ 60 PSI
SHOWER HEAD (a)	1.5 GPM @ 80 PSI
SINK FAUCET	1.5 GPM @ 60 PSI
WATER CLOSET	1.28 GALLON PER FLUSHING CYCLE
DISHWASHER (RESIDENTIAL)	6.5 GALL PER CYCLE OR LESS (ENERGY STAR/WATER SENSE CERTIFIED). (c)
WASHING MACHINE	WATER FACTOR OF 8 OR LOWER (ENERGY STAR/WATER SENSE CERTIFIED). (c)

(a) A HANDHELD SHOWER SPRAY IS A SHOWERHEAD.
(b) CONSUMPTION TOLERANCES SHALL BE DETERMINED FROM REFERENCED STANDARDS.
(c) WATER FACTOR IN GALLONS PER CYCLE PER CUBIC FOOT.

NOTE:

PLUMBING FIXTURES AND APPLIANCES SHALL COMPLY WITH MIAMI-DADE CODE SECTION 8-31. RESIDENTIAL REQUIREMENTS FOR THE MAXIMUM FLOW RATE PERMISSIBLE AS PER TABLE 2903.2a (REFER TO ARCHITECTURAL DRAWINGS FOR PLUMBING FIXTURE SCHEDULE)

FIXTURE CONNECTION SCHEDULE

ITEM	WASTE & SOIL	WATER	
		COLD	HOT
WATER CLOSET	3"	1/2"	– –
TUB	2"	1/2"	1/2"
WHIRLPOOL	2"	1/2"	1/2"
BIDET	1–1/4"	1/2"	1/2"
LAVATORY	1–1/4"	1/2"	1/2"
KITCHEN SINK	1–1/2"	1/2"	1/2"
DISHWASHER	1" hose	– –	1/2"
CLOTHES WASHER	2"	1/2"	1/2"
HOSE BIBB	– –	1/2"	– –
FLOOR DRAINS	2" MIN.	1/2"	– –
SHOWER	2"	1/2"	1/2"
REFRIGERATOR	– –	1/2"	– –

1) FIXTURES TO COMPLY W/FBC 2020 Plumbing Sections 709.1.603.1 & 604.3
2) ANTI-SCALD VALVE:
ALL SHOWERS & BATH/SHOWER COMBINATIONS SHALL BE PROTECTED WITH A CONTROL VALVE OF THE PRESSURE BALANCE, THERMOSTSTIC MIXING OR COMBINATION TYPE SET. HANDLE POSITION STOPS PER MANUFACTURERS INSTRUCTIONS AT TIME OF INSTALLATION TO A MAXIMUM MIXED WATER OUTLET TEMPERATURE OF 110°F.

LEGEND

- COLD WATER PIPE (CW)
- HOT WATER PIPE (HW)
- CD — CONDENSATE LINE
- G — GAS PIPE
- GATE VALVE
- PLUG VALVE
- HOSE BIBB (W/VACUUM BREAKER)
- CONNECT NEW TO EXISTING
- BTUH BRITISH THERMAL UNITS PER HOUR
- CW COLD WATER
- HB HOSE BIBB
- HW HOT WATER
- P & T PRESSURE & TEMPERATURE
- TBR TO BE REMOVED
- HOT WATER RETURN
- TYP TYPICAL
- CA COMPRESSOR AIR

HAMMER ARRESTOR:
- *AMTROL, MODEL 500*
- *INSTALL IN ACC. LOCATION.*
- *CONNECTION SIZE: 1/2" NPT*
- *HEIGHT: 4–1/2"*
- *DIAMETER: 3–3/8"*
  MAX. PRESSURE: 150 PSI
  MAX. TEMP: 200° F
  MAX. SHOCK PRESSURE: 200 PSI

NOTE:
ALL SANITARY PIPE 2 1/2" DIAMETER OR SMALLER SHALL RUN @ 1/4" SLOPE PER L.F.T. 3" AND LARGER @ 1/8" SLOPE PER L.F.T.

NOTE:
ALL TUBS AND SHOWERS REQUIRE ANTI–SCALDING VALVE @ 110°F, (TYPICAL)

NOTE:
ALL PIPES TO DISCHARGE MIN. 12" FROM STRUCTURE

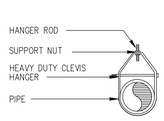
NOTE:
ALL PLUMBING WATER DEVICES SHALL BE PROVIDED W/ SHUT–OFF VALVES.

NOTE:
NO SPLICING ALLOWED UNDER SLAB

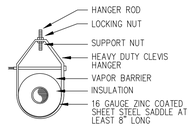
GENERAL PLUMBING NOTES

1. ALL WORK SHALL CONFORM WITH ALL LOCAL, STATE, FEDERAL ORDINANCES AND FLORIDA BUILDING CODES 2020 GOVERNING THE INSTALLATION OF THE PLUMBING SYSTEM. IF WORK AS LAID OUT, INDICATED OR SPECIFIED IS CONTRARY TO OR CONFLICTS WITH LOCAL ORDINANCES, BUILDING CODES AND REGULATIONS, THE CONTRACTOR SHALL REPORT IN WRITING TO THE ARCHITECT/ENGINEER. BEFORE SUBMITTING A BID. THE ARCHITECT/ENGINEER. WILL THEN ISSUE INSTRUCTIONS AS HOW TO PROCEED.
2. THE DRAWINGS ARE TO BE CONSIDERED DIAGRAMMATIC, NOT NECESSARILY SHOWING IN DETAIL OR TO SCALE ALL OF THE MINOR ITEMS, UNLESS SPECIFIC DIMENSIONS ARE SHOWN. THE STRUCTURAL, ARCHITECTURAL AND SITE CONDITIONS SHALL GOVERN THE EXACT LOCATIONS. CONTRACTOR SHALL FOLLOW DRAWINGS IN LAYING OUT WORK. CHECK DRAWINGS OF ALL TRADES TO VERIFY SPACES IN WHICH WORK WILL BE INSTALLED AND MAINTAIN MAXIMUM HEAD ROOM, AND SPACE CONDITIONS AT ALL POINTS. WHERE HEAD ROOM, OR SPACE CONDITIONS APPEAR INADEQUATE, ARCHITECT/ ENGINEER SHALL BE NOTIFIED BEFORE PROCEEDING WITH INSTALLATION. THIS CONTRACTOR SHALL, WITHOUT EXTRA CHARGE, MAKE FIELD MODIFICATION IN LAYOUT AS NEEDED TO PREVENT CONFLICT WITH WORK OF VARIOUS TRADES OR FOR PROPER EXECUTION OF THE WORK .
3. EXAMINE ALL DRAWINGS CAREFULLY PRIOR TO SUBMITTING A BID. CONTRACTOR WILL BE REQUIRED TO FURNISH, INSTALL AND/OR CONNECT WITH APPROPRIATE SERVICES ALL PLUMBING ITEMS SHOWN ON ANY OF THE ARCHITECTURAL, AIR CONDITIONING, ELECTRICAL AND SPRINKLER DRAWINGS WITHOUT ADDITIONAL EXPENSE TO THE OWNER. IF DISCREPANCIES , CONFLICTS , INTERFERENCE OR OMISSIONS OCCUR BETWEEN DRAWINGS, NOTIFY IN WRITING THE ARCHITECT/ ENGINEER IN AMPLE TIME TO PERMIT REVISIONS BEFORE THE BIDS ARE SUBMITTED.
4. INSTALL MATERIALS AND EQUIPMENT IN A NEAT AND FIRST CLASS WORKMANLIKE MANNER. THE OWNER RESERVES THE RIGHT TO DIRECT REMOVAL AND REPLACEMENT OF ITEMS WHICH, IN HIS OPINION, DO NOT PRESENT A NEAT AND WORKMANLIKE APPEARANCE. REMOVAL AND REPLACEMENT IS TO BE DONE IMMEDIATELY WHEN DIRECTED BY THE OWNER IN WRITING, AT THE SOLE EXPENSE OF CONTRACTOR.
5. START OF WORK BY CONTRACTOR SHALL BE CONSIDERED AS ACCEPTANCE BY HIM OF ALL CLAIMS OR QUESTIONS AS TO SUITABILITY OF THE WORK OF OTHER TRADES OR OTHER CONTRACTORS TO RECEIVE HIS WORK. THIS CONTRACTOR SHALL REMOVE AND REPLACE, AT HIS EXPENSE, ALL PLUMBING WORK WHICH MAY HAVE TO BE REMOVED BECAUSE OF INTERFERENCE WITH OTHER TRADES.
6. THIS CONTRACTOR SHALL OBTAIN AND PAY ALL INSURANCE, FEES, PERMITS , ASSOCIATION DUES, ROYALTIES AND TAXES OF WHATEVER NATURE SHALL APPLY TO THIS WORK. HE SHALL ALSO PAID ALL THE INSPECTION FEES AS MAY REQUIRED BY LAW OR ORDINANCE AND SHALL KEEP THE OWNER HARMLESS FROM ANY DAMAGE AND EXPENSE ARISING FROM ANY VIOLATION OF LAWS, RULES OR ORDINANCES.
7. PROVIDE MEANS "FURNISH AND INSTALL".
8. DO A COMPLETE JOB, EVERYTHING CONNECTED, READY FOR USE.
9. SHOP DRAWINGS: CONTRACTOR SHALL FURNISH THE ENGINEER WITH SHOP DRAWINGS OF EQUIPMENT PRIOR TO PURCHASE FOR APPROVAL.
10. AT COMPLETION OF JOB THE PLUMBING CONTRACTOR SHALL GIVE THE OWNER AN AS–BUILT SET OF REPRODUCIBLE SEPIAS SHOWING THE EXACT LOCATION OF ALL INSTALLATIONS.
11. PLUMBING CONTRACTOR SHALL PRESSURE TEST ALL PIPING AS REQUIRED BY CODE. TEST SHALL BE WITNESSED AND APPROVED BY PROPER AUTHORITIES.
12. THE PLUMBING CONTRACTOR SHALL WARRANT ALL WORKMANSHIP AND MATERIALS FOR ONE YEAR FROM THE DATE OF FINAL WORK ACCEPTANCE BY OWNER. ANY BREAKDOWN OCCURRING IN FIRST YEAR SHALL BE REPAIRED AT NO EXPENSE TO THE OWNER.
13. PROVIDE BATHROOM FIXTURES AS SPECIFIED.
14. PROVIDE SHUTOFF VALVE FOR EACH FIXTURE.
15. WHEREVER NOT SIMILAR METALS ARE TO BE JOINED, A DIELECTRIC FITTING SHALL BE PROVIDED TO CONNECT BOTH TYPES OF PIPES.
16. PLUMBING CONTRACTOR SHALL PROVIDE AIR CONDITIONING CONDENSATE DRAIN AND TRAP. SEE AIR CONDITIONING PLANS FOR LOCATION OF UNITS AND DRAINS.
17. MATERIALS
    A. COLD WATER PIPING DOWNSTREAM OF WATER METER SHALL BE TYPE "L" COPPER BELOW GROUND AND TYPE "M" COPPER ABOVE GROUND.
    B. COLD WATER PIPES INSIDE OF SLAB SHALL BE TYPE "K" SOFT COOPER INSTALL INSIDE POLYETHYLENE CONDUIT. NO JOINTS PERMITTED INSTALL SLAB.
    C. SANITARY WASTE AND VENT 4"ø AND SMALLER SHALL BE P.V.C., SCHEDULE 40.
    S. STORM LINES INSIDE BUILDING SHALL BE P.V.C. SCHEDULE 40
    E. IN COASTAL AREAS ALL SANITARY AND STORM PIPING OUTSIDE OF BUILDING SHALL BE SCHEDULE 40, PVC.
    F. CONDENSATE DRAIN PIPE SHALL BE SCHEDULE 40, PVC PIPE AND FITTINGS.
    G. WATER HEATER RELIEF AND DRAIN LINE SHALL BE TYPE "L" COPPER, MIN. 3/4" DIA.
    H. INSULATE ALL HOT WATER, HOT WATER RETURN, CONDENSATE LINES, EXHAUST LINES ABOVE GRADE AS FOLLOWS:
    HW & CW SUPPLY AND RETURN PER FBCEC–2017 R403.5.3 MIN. R–3: USE R–4
    USE 1"ARMAFLEX PREFORMED OR EQUAL
    CONDENSATE PIPING AND STORM DRAIN PIPING------3/4" ARMAFLEX PREFORMED.

FIRE RATED PENETRATION NOTE
WHEN P.V.C. IS USED PROVIDE "PRO–SET" AND PATCH UP OPENING WITH FIRE RATED SEALER SIMILAR TO "3M" C–128 OR APPROVED EQUAL

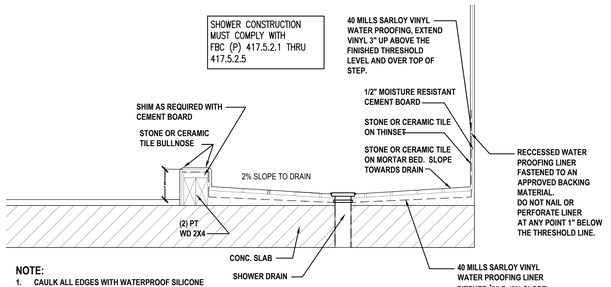


CLEVIS HANGER SINGLE HORIZONTAL RUNS NO VAPOR BARRIER INSULATION



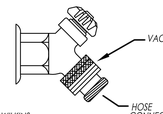
CLEVIS HANGER SINGLE HORIZONTAL RUNS W/ VAPOR BARRIER INSULATION

PIPE SUPPORT DETAILS
NO SCALE



NOTE:
1. CAULK ALL EDGES WITH WATERPROOF SILICONE
2. INSTALL DRAIN AS PER PLANS. REFER TO MANUFACTURER'S INSTRUCTION FOR ACTUAL DRAIN INSTALLATION DETAILS

SHOWER PAN DETAIL
N.T.S.



HOSE BIBB DETAIL
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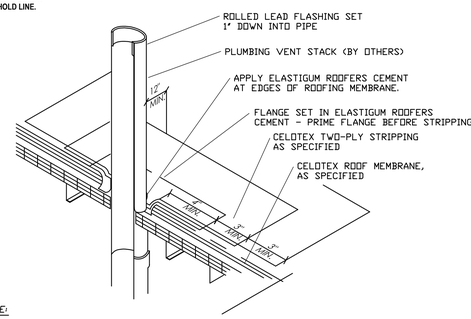
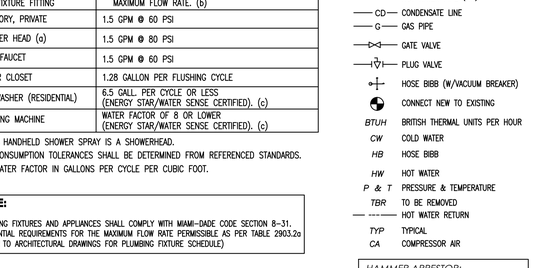


NOTE:
1. SHEET LEAD MINIMUM OF 2–1/2 LBS. PER SQUARE FOOT.

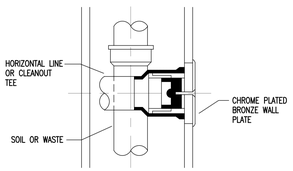
V.T.R./PIPE FLASHING DETAIL
N.T.S.



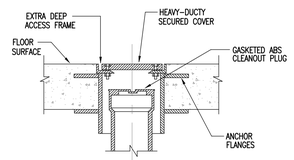
OPTION #1: WHEN THE VALVE IS LOCATED IN A WALL RECESS BOX A REMOVABLE LOUVER SHALL BE INSTALLED FOR VENTILATION, ACCESS IND INSPECTION.
OPTION #2: THE VALVE MAY BE LOCATED ON A DOUBLE SHORT VERTICAL OFFSET BELOW THE FLOOD LEVEL RIM OF THE FIXTURE BEING SERVED.
OPTION #3: THE VALVE MAY BE LOCATED ON THE HORIZONTAL FIXTURE DRAIN ARM A MINIMUM OF FOUR INCHES ABOVE THE FIXTURE TRAP.

NOTES:
1. FIXTURE AND BRANCH TERMINALS ONLY ON SAME FLOOR LEVEL.
2. DO NOT REMOVE VALVE FROM PIPEWORK, SEWER GASSES CAN ENTER. 3. USE P.T.F.E. (TEFLON) TAPE OR SEALANT ON THE THREADS TO ENSURE AIRTIGHT SEAL.
4. SCREW VALVE INTO 2 INCH FEMALE ADAPTER TO CONNECT BY SOLVENT WELD TO PIPEWORK.
5. DFU (DRAIN FIXTURE UNIT) 2 INCH = 3 DFU'S.
6. MAXIMUM BRANCH FIXTURE LOAD 2 INCHES = 6 DFU'S.
7. ALL DWV SYSTEMS MUST HAVE A MAIN VENT EXTENDED TO THE OPEN AIR.
8. DO NOT INSTALL ON STACK VENTS/VENT STACKS, OR RELIEF VENTS.

AIR ADMITTANCE VALVE MOUNTING DETAIL
N.T.S.

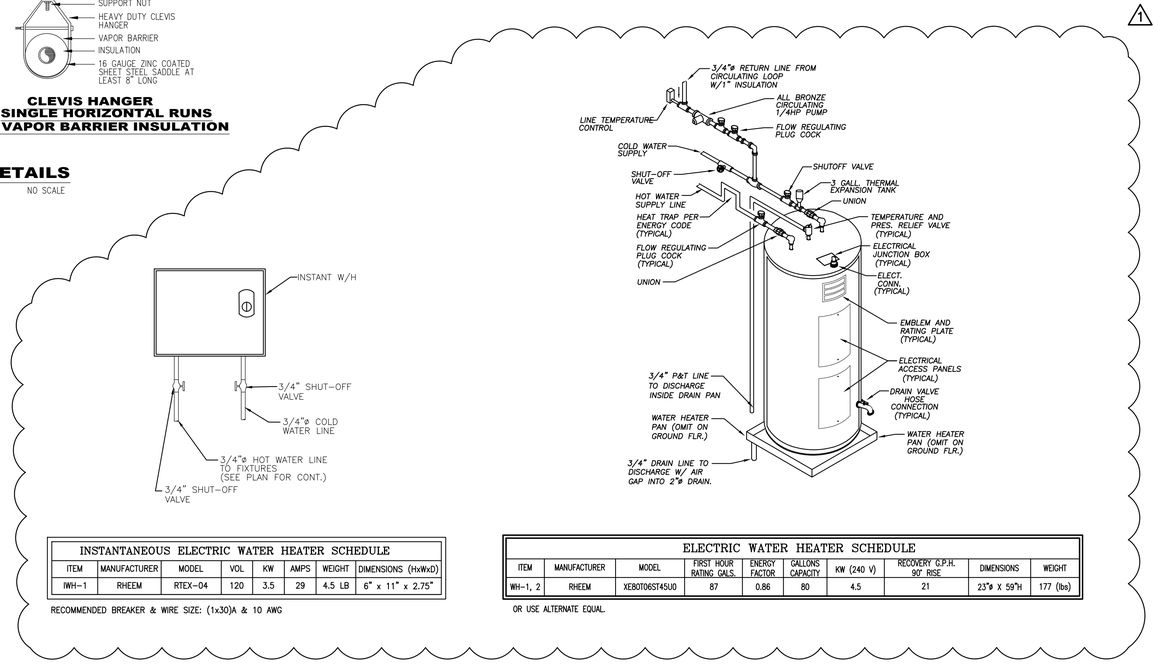


WALL



EXTERIOR

CLEANOUT DETAILS
N.T.S.



INSTANTANEOUS ELECTRIC WATER HEATER SCHEDULE							
ITEM	MANUFACTURER	MODEL	VOL	KW	AMPS	WEIGHT	DIMENSIONS (HxWxD)
IWH–1	RHEEM	RTEX–04	120	3.5	29	4.5 LB	6" x 11" x 2.75"

RECOMMENDED BREAKER & WIRE SIZE: (1x30)A & 10 AWG

ELECTRIC WATER HEATER SCHEDULE								
ITEM	MANUFACTURER	MODEL	FIRST HOUR RATING GALS.	ENERGY FACTOR	GALLONS CAPACITY	KW (240 V)	RECOVERY G.P.H. 90° RISE	DIMENSIONS	WEIGHT
WH–1, 2	RHEEM	XE80T06ST45U0	87	0.86	80	4.5	21	23"ø X 59"H	177 (lbs)

OR USE ALTERNATE EQUAL.

1 P-2-0 PLUMBING NOTES, SCHEDULE AND DETAILS
SCALE: N.T.S.

REVISIONS			
Rev:	Date	Description:	
1	10/24/23	B.D.C	

FIDANZA'S FAMILY HOUSE
NEW CONSTRUCTION
11041 SW 77TH AVE, PINECREST, FL 33156

Corporation Licence #AA0003589
Architectural Seal
JORGE I. VILLAVICENCIO NO. AR0012110

VILLA & ASSOCIATES INC.
ARCHITECTURE - PLANNING - INTERIOR DESIGN
5801 SW 69 AVENUE - MIAMI, FLORIDA 33155
TEL. 305-613-0865 - E-Mail Jvillarchitect@gmail.com
CONSULTANT : ARCHI-TEK STUDIO CORP.
TEL. 305-799-8016 - E-Mail magullar@architekstudio.com

Eduardo A Barreto
Digitally signed by Eduardo A Barreto
DN: c=US, o=Florida, dnQualifier=A01410C0000018F968AF54EC000D0ECA, cn=Eduardo A Barreto
Date: 2023.11.05 13:13:20 -05'00'

EDUARDO A.BARRETO
P.E. No. 69677
PH: (786) 239-1808
EMAIL: eabservices@gmail.com

EDUARDO A BARRETO, PROFESSIONAL ENGINEER, STATE OF FLORIDA, LICENSE NO. 69677
THIS ITEM HAS BEEN DIGITALLY SIGNED AND SEALED BY EDUARDO A BARRETO, PE, ON DAY AS APPEAR ON SEAL.
PRINTED COPIES OF THIS DOCUMENT ARE NOT CONSIDERED SIGNED AND SEALED AND THE SIGNATURE MUST BE VERIFIED ON ANY ELECTRONIC COPIES.

DATE:	SCALE:
10-20-2022	AS SHOWN
PROJECT NO:	
Unnamed	
DRAWING NO :	
P-2-0	

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P-2-0 - NOTES DETAILS.pdf

PERMITTING HOURS
8:00 AM TO 2:00 PM
MONDAY – FRIDAY

CONTACT INFORMATION
T: 305.234.2121 F: 305.234.2133
building@pinecrest-fl.gov
INSPECTIONS: 305.234.2111
INSURANCE RENEWALS: renewals@pinecrest-fl.gov

VILLAGE OF PINECREST
Building & Planning Department
12645 Pinecrest Parkway.
Pinecrest, Florida 33156

MASTER PERMIT #_____

SUB PERMIT #_____

INSTRUCTIONS

STEP 1. APPLICATION WHICH MUST BE SIGNED BY THE PROPERTY OWNER & QUALIFIER; BOTH SIGNATURES MUST BE NOTARIZED. PERMITS/PLANS DROP OFF CLOSES @ 2:00 P.M.

STEP 2. SUBMIT THE COMPLETED APPLICATION WITH ALL NECESSARY DOCUMENTS TO THE BUILDING AND PLANNING DEPARTMENT FOR PROCESSING. REFER TO PERMIT CHECKLIST ONLINE AT:
HTTPS://WWW.PINECREST-FL.GOV/Government/Building/Apply-for-a-Permit/All-Permits.

STEP 3. PROJECTS OVER $2,500 REQUIRE RECORDED NOTICE OF COMMENCEMENT POSTED AT JOBSITE PRIOR TO COMMENCEMENT OF CONSTRUCTION.

APPLICATION

JOB ADDRESS: 11041 SW 77th Ave, Pinecrest FL 33156 FOLIO #: 20-6011-000-0390

DESCRIPTION OF WORK: new construction 2 Story FLOOD ZONE: X AH7 AE7 AE10 AE11

VALUE OF WORK: $3.750.000~ PROJECT SQ. FT.: 17.415 NO. OF FLOORS: 2

CONTACT: Heidy Certain EMAIL: heca1362@gmail.com PHONE: (786) 444 2945

PERMIT TYPE	(✓)	PERMIT CHANGE	(✓)	IMPROVEMENT TYPE	(✓)	CATEGORY	(✓)
BUILDING		REVISION		NEW CONSTRUCTION	✓	COMMERCIAL	
ELECTRICAL		RENEWAL		ALTERATION		RESIDENTIAL	✓
MECHANICAL		CHG OF CONTRACTOR		ADDITION		APPRAISED BLDG. VALUE	
PLUMBING		CHG OF ARCH/EGR		DEMOLITION		$_____	
ZONING							

PROPERTY OWNER	
NAME	Paolo Fidanza
	Milena Doria
ADDRESS	6495 SW 83rd St
	Miami, FL 33143
PHONE	(786) 230 9637
EMAIL	pafidanza@gmail.com

CONTRACTOR	
COMPANY	
QUALIFIER	
ADDRESS	
LICENSE #	
PHONE	
EMAIL	

ARCHITECT	
NAME	Jorge L. Villavicencio
LICENSE #	AR0012110
PHONE	(305) 613 0865
EMAIL	

ENGINEER	
NAME	
LICENSE #	
PHONE	
EMAIL	

OFFICE USE ONLY

☐ *PERMIT CLERK REVIEW COMPLETE.* *UPFRONT FEE AMOUNT PAID $*_____ *(if applicable)*

FEES TYPE	AMOUNT	FEES TYPE	AMOUNT	SECTION	BY	DATE
SCAN FEE ($3/PG)		ZONING/PLANNING		ZONING/PLANNING		
BUILDING FEES		SOLID WASTE		ELECTRICAL		
STORMWATER REVIEW		MUNICIPAL		MECHANICAL		
MIAMI-DADE COUNTY		STORM DRAINAGE		PLUMBING		
FL DBR		IMPACT ADMIN		PUBLIC WORKS		
FL DCA		SIDEWALK		STRUCTURAL		
FINES		CONCURRENCY		STORMWATER		
CERT. OF OCCUPANCY		EXPEDITE- REWORK		BUILDING		
CONSTRUCTION SIGN		TOTAL DUE:		BUILDING OFFICIAL		

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CONDITIONS OF APPROVAL

☐ *CONDITION DESCRIPTION:*

IMPORTANT NOTICES

1. DO NOT BEGIN ANY WORK WITHOUT HAVING RECEIVED YOUR VALIDATED PERMIT AND PERMIT CARD. APPLYING FOR A PERMIT DOES NOT GRANT THE RIGHT TO BEGIN CONSTRUCTION. HOURS OF CONSTRUCTION ARE LIMITED TO MONDAY THROUGH FRIDAY FROM 7:00 A.M. TO 6:30 P.M., SATURDAYS FROM 8:00 A.M. TO 4:00 P.M. NO CONSTRUCTION ON SUNDAYS OR STATE HOLIDAYS. NO INSPECTIONS WILL BE CONDUCTED ON WEEKENDS OR HOLIDAYS.
2. ALL CONSTRUCTION AND/OR DEMOLITION AREAS MUST BE MAINTAINED IN A CLEAN, NEAT AND SANITARY CONDITION FREE FROM CONSTRUCTION DEBRIS.
3. STREETS AND NEIGHBORING PROPERTIES SHALL BE KEPT FREE FROM DIRT AND DEBRIS.
4. SWALES MUST BE PROTECTED FROM BEING DAMAGED BY EQUIPMENT OR VEHICLES.
5. CONSTRUCTION TRAILERS ARE PROHIBITED ON SINGLE FAMILY RESIDENTIAL CONSTRUCTION SITES. OTHER CONSTRUCTION MAY HAVE A TRAILER, WHICH REQUIRES A SEPARATE PERMIT.
6. PORTABLE TOILETS FOR A CONSTRUCTION SITE REQUIRE A SEPARATE PERMIT.
7. DO NOT DISCHARGE WATER INTO THE RIGHT OF WAY OR STORM DRAINS WITHOUT APPROVAL FROM THE BUILDING AND PLANNING DEPARTMENT.
8. EQUIPMENT AND MATERIALS SHALL BE STORED WITHIN YOUR PROPERTY, NOT ON PUBLIC RIGHT OF WAY.
9. FLORIDA DEPARTMENT OF HEALTH APPROVAL IS REQUIRED FOR APPLICATIONS INVOLVING SEPTIC TANKS. DEPARTMENT OF ENVIRONMENTAL RESOURCES MANAGEMENT (DERM) AND/OR MIAMI DADE WATER AND SEWER DEPARTMENT (MDWASD) APPROVAL IS REQUIRED FOR APPLICATIONS INVOLVING SEWERS AND WATER.
10. THE ISSUANCE OF A DEVELOPMENT PERMIT BY THE VILLAGE DOES NOT IN ANY WAY CREATE ANY RIGHT ON THE PART OF AN APPLICANT TO OBTAIN A PERMIT FROM A STATE OR FEDERAL AGENCY AND DOES NOT CREATE ANY LIABILITY ON THE PART OF THE VILLAGE FOR ISSUANCE OF THE PERMIT IF THE APPLICANT FAILS TO OBTAIN REQUISITE APPROVALS OR FULFILL THE OBLIGATIONS IMPOSED BY A STATE OR FEDERAL AGENCY OR UNDERTAKES ACTIONS THAT RESULT IN A VIOLATION OF STATE OR FEDERAL LAW. IN ADDITION, ALL APPLICABLE STATE AND FEDERAL PERMITS SHALL BE OBTAINED BY THE APPLICANT BEFORE COMMENCEMENT OF THE DEVELOPMENT.

AFFIDAVIT

APPLICATION IS HEREBY MADE TO OBTAIN A PERMIT TO DO WORK AND INSTALLATION AS INDICATED. I, THE OWNER OF THE PROPERTY, CERTIFY THAT ALL WORK WILL BE PERFORMED TO MEET THE STANDARDS OF ALL LAWS REGARDING CONSTRUCTION IN THE VILLAGE OF PINECREST. I UNDERSTAND THAT SEPARATE PERMITS ARE REQUIRED FOR ELECTRICAL, PLUMBING, POOL, EXTERIOR DOOR, MECHANICAL, WINDOW, FENCE, DRIVEWAY, ROOFING, SHUTTERS AND SIGNS AND THERE MAY BE ADDITIONAL PERMITS REQUIRED FROM OTHER GOVERNMENTAL AGENCIES.

I, THE OWNER OF THE PROPERTY, HAVE DISCLOSED ALL INFORMATION RELATED TO ANY WORK AT THE PROPERTY PERFORMED IN THE PRIOR ONE (1) YEAR TO THE BUILDING OFFICIAL. FURTHER, I AM FULLY AWARE THAT IF THE CUMULATIVE COST OF WORK TO MY HOME OR BUSINESS UNDER THIS AND ANY OTHER PERMIT DURING THE ONE (1) YEAR PERIOD BEGINNING ON THE DATE OF THE FIRST IMPROVEMENT OR REPAIR TO THE STRUCTURE SUBSEQUENT TO JANUARY 1, 2015 EXCEEDS FIFTY PERCENT (50%) OF THE MARKET VALUE OF THE STRUCTURE, THE ENTIRE STRUCTURE MUST MEET THE PRESENT FEDERAL FLOOD CRITERIA FOR FINISHED FLOOR ELEVATION PLUS 1 FOOT. I AM ALSO FULLY AWARE THAT IF THE WORK AREA TO MY HOME OR BUSINESS UNDER THIS AND ANY OTHER PERMIT EQUALS OR EXCEEDS FIFTY PERCENT (50%) OF THE BUILDING AREA, THEN THE ALTERATION MUST CONFORM TO THE CURRENT CODE REQUIREMENTS OF THE FLORIDA BUILDING CODE, EXISTING BUILDINGS SECTION 604 ALTERATION LEVEL 3.

I, THE OWNER OF THE PROPERTY, UNDERSTAND THAT A PERMIT APPLICATION IS SUBJECT TO DENIAL AND A VALIDATED PERMIT OR PERMIT CARD IS SUBJECT TO REVOCATION OR MODIFICATION BASED UPON APPLICABLE DEEDS, COVENANTS, DECLARATIONS, EASEMENTS AND ANY OTHER LEGAL RESTRICTION. BY ISSUING A PERMIT, THE VILLAGE MAKES NO REPRESENTATION AS TO THE EXISTENCE OR VALIDITY OF ANY PROPERTY RESTRICTION.

WARNING TO OWNER: YOUR FAILURE TO RECORD A NOTICE OF COMMENCEMENT MAY RESULT IN YOU PAYING TWICE FOR IMPROVEMENTS TO YOUR PROPERTY. IF YOU ARE SPENDING MORE THAN $2,500 OR INTEND TO OBTAIN FINANCING, YOU MAY WISH TO CONSULT WITH YOUR ATTORNEY OR LENDER BEFORE RECORDING YOUR NOTICE OF COMMENCEMENT. THE NOTICE OF COMMENCEMENT MUST BE RECORDED AT: 22 N.W. 1ST STREET, 1ST FLOOR (305) 275-1155 EXTENSION 6. ONCE RECORDED, THE NOTICE OF COMMENCEMENT MUST BE POSTED AT THE JOB SITE IN ACCORDANCE WITH SECTION 713.35 OF FLORIDA STATUTES

STATE OF FLORIDA, COUNTY OF MIAMI-DADE

SIGNATURE OF OWNER

PAOLO RIDANZA
PRINT NAME SWORN TO AND SUBSCRIBED BEFORE ME THIS 6 DAY OF Sept 2023.

SIGNATURE OF NOTARY PUBLIC, STATE OF FLORIDA
SEAL:

Notary Public - State of Florida
Commission # HH 056313
My Comm. Expires Oct 22, 2024
Bonded through National Notary Assn.

PERSONALLY KNOWN ___ OR, PRODUCED IDENTIFICATION ___
TYPE OF IDENTIFICATION PRODUCED: ___

STATE OF FLORIDA, COUNTY OF MIAMI-DADE

SIGNATURE OF CONTRACTOR QUALIFIER

PRINT NAME SWORN TO AND SUBSCRIBED BEFORE ME THIS ___ DAY OF ___, 20___.

SIGNATURE OF NOTARY PUBLIC, STATE OF FLORIDA
SEAL:

PERSONALLY KNOWN ___ OR, PRODUCED IDENTIFICATION ___
TYPE OF IDENTIFICATION PRODUCED: ___

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SYSTEM # 1

DETERMINATION OF OSTDS TYPE AND STANDARDS PER SECTION 24-42.7

GROSS LOT SIZE = 71,301.2 FT² = 1.637 ACRES
LAND USE: Residencial
GROSS BUILDING AREA =(1,161.3 FT²
SEWAGE FLOW = 510 GPD
SEWAGE LOADING = 510 GPD / 1.637ACRES =311.54 GPD/ACRE

Y	N	CRITERIA FOR OSTDS TYPE SELECTION
Y		PROPERTY WILL BE SERVED BY PUBLIC WATER
Y		PROPERTY COMPLETELY OUTSIDE WELLFIELD PROTECTION AREA
	N	SURFACE WATER BODIES BEYOND 1000 FEET
Y		SEWAGE FLOW IS LESS THAN 500 GPD FOR SFR /DUPLEX
N	A	SEWAGE FLOW IS LESS THAN 1000 GPD FOR MULTI-FAMILY/OTHER USES
Y		SEWAGE LOADING LESS THAN 500 GPD/ACRE

Y	N	OTHER CONSIDERATIONS FOR OSTDS APPROVAL
Y		SANITARY SEWERS NOT AVAILABLE, ABUTTING, OR OPERATIVE
Y		SYSTEM WILL SERVE ONLY ONE LOT
N	A	PROPERTY LINES OVER 50 FEET FROM OSTDS FOR PROPERTIES SERVED BY A POTABLE WATER WELL

TYPE OF SYSTEM REQUIRED : PBTS (Advanced Secondary Treatment Standards TYPE III)
TOTAL NITROGEN TREATED BY : NORWECO SINGULAR 960-750
TOTAL PHOSPHORUS TREATED BY : NORWECO SINGULAR 960-750
FECAL COLIFORM TREATED BY : BLUE CRYSTAL DESINFECTION TANK
SOURCE OF TREATMENT STANDARDS : DEP Average Testing Performance Data for PBTS

TREATMENT STANDARDS		
POLLUTANT	REQUIRED (mg/L) (ANNUAL AVERAGE)	PROPOSED (mg/L) (ANNUAL AVERAGE)
$CBOD_5$	<10 MG/L	6
TSS	<10MG/L	10
TN	50% Removal	53% RED.
TP	<10 MG/L	10
FECAL COLIFORM (cfu/100ml)	<200 FC COL/100ML	<2 FC COL/100ML (99% RED.)

OSTDS CALCULATIONS PER CHAPTER 62-6 F.A.C.

NET LOT SIZE = 69260 FT² = 1.589 ACRES
LAND USE: Residencial
BUILDING AREA = 11814.08 FT²
1rdFL 7373.92 sqft + 2ndFL 3917.11 sqft + EXEC. BLDG 523.77 SQFT = 11,814.8 SQFT

SEWAGE FLOW
MAXIMUM SEWAGE LOADING ALLOWANCE = 1500 GPD/ACRE (1,500 GPD/ACRE OR 2,500 GPD/ACRE)
AUTHORIZED SEWAGE FLOW = 1500 GPD/ACRE x 1.589 ACRES = 2384.98 GPD
UNIT FLOW CRITERIA (PER TABLE 1) : BEDRMS/ BLDG AREA
SEWAGE FLOW PER UNIT FLOW = 100 G.P.D.X BEDRMS or per 750 sqft
TOTAL SEWAGE FLOW = 1120 GPD
System #1: 650 GPD DF: 813.SQFT / RA:1220 SQFT
SYSTEM#2: 471 GPD DF: 589 SQFT / RA: 884 SQFT

TREATMENT TANK AND DRAINFIELD
PROPOSED SYSTEM : PBTS (Advanced Secondary Treatment Standards)
MINIMUM REQUIRED TREATMENT CAPACITY = 750 GPD
DRAINFIELD CONFIGURATION : TRENCH
DRAINFIELD TYPE : STANDARD (SYSTEM#1)
DRAINFIELD MATERIAL : CHAMBER ARC 24
MAXIMUM SEWAGE LOADING RATE FOR THE PROPOSED DRAINFIELD = 0.8 GAL/FT²DAY
DRAINFIELD SIZE = 650 GPD / 0.8 GAL/FT²DAY = 813 FT²

SEPARATION BETWEEN THE SHWT AND BOTTOM OF THE DRAINFIELD (ELEVATIONS IN NGVD)
GRADE ELEVATION = 9.8 FT
SEASONAL HIGH WATER TABLE ELEVATION = 4.5 FT
ELEVATION AT THE BOTTOM OF THE DRAINFIELD = 8.2 FT
SEPARATION BETWEEN SHWT AND BOTTOM OF DRAINFIELD = 44.4 INCHES

SYSTEM # 2

DETERMINATION OF OSTDS TYPE AND STANDARDS PER SECTION 24-42.7

GROSS LOT SIZE = 71,301.2 FT² = 1.637 ACRES
LAND USE: Residencial
GROSS BUILDING AREA =(1,161.3 FT²
SEWAGE FLOW = 510 GPD
SEWAGE LOADING = 510 GPD / 1.637ACRES =311.54 GPD/ACRE

Y	N	CRITERIA FOR OSTDS TYPE SELECTION
Y		PROPERTY WILL BE SERVED BY PUBLIC WATER
Y		PROPERTY COMPLETELY OUTSIDE WELLFIELD PROTECTION AREA
	N	SURFACE WATER BODIES BEYOND 1000 FEET
Y		SEWAGE FLOW IS LESS THAN 500 GPD FOR SFR /DUPLEX
N	A	SEWAGE FLOW IS LESS THAN 1000 GPD FOR MULTI-FAMILY/OTHER USES
Y		SEWAGE LOADING LESS THAN 500 GPD/ACRE

Y	N	OTHER CONSIDERATIONS FOR OSTDS APPROVAL
Y		SANITARY SEWERS NOT AVAILABLE, ABUTTING, OR OPERATIVE
Y		SYSTEM WILL SERVE ONLY ONE LOT
N	A	PROPERTY LINES OVER 50 FEET FROM OSTDS FOR PROPERTIES SERVED BY A POTABLE WATER WELL

TYPE OF SYSTEM REQUIRED : PBTS (Advanced Secondary Treatment Standards TYPE III)
TOTAL NITROGEN TREATED BY : NORWECO SINGULAR 960-750
TOTAL PHOSPHORUS TREATED BY : NORWECO SINGULAR 960-750
FECAL COLIFORM TREATED BY : BLUE CRYSTAL DESINFECTION TANK
SOURCE OF TREATMENT STANDARDS : DEP Average Testing Performance Data for PBTS

TREATMENT STANDARDS		
POLLUTANT	REQUIRED (mg/L) (ANNUAL AVERAGE)	PROPOSED (mg/L) (ANNUAL AVERAGE)
$CBOD_5$	<10 MG/L	6
TSS	<10MG/L	10
TN	50% Removal	53% RED.
TP	<10 MG/L	10
FECAL COLIFORM (cfu/100ml)	<200 FC COL/100ML	<2 FC COL/100ML (99% RED.)

OSTDS CALCULATIONS PER CHAPTER 62-6 F.A.C.

NET LOT SIZE = 69260 FT² = 1.589 ACRES
LAND USE: Residencial
BUILDING AREA = 11814.08 FT²
1rdFL 7373.92 sqft + 2ndFL 3917.11 sqft + EXEC. BLDG 523.77 SQFT = 11,814.8 SQFT

SEWAGE FLOW
MAXIMUM SEWAGE LOADING ALLOWANCE = 1500 GPD/ACRE (1,500 GPD/ACRE OR 2,500 GPD/ACRE)
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UNIT FLOW CRITERIA (PER TABLE 1) : BEDRMS/ BLDG AREA
SEWAGE FLOW PER UNIT FLOW = 100 G.P.D.X BEDRMS or per 750 sqft
TOTAL SEWAGE FLOW = 1120 GPD
System #1: 650 GPD DF: 813.SQFT / RA:1220 SQFT
SYSTEM#2: 471 GPD DF: 589 SQFT / RA: 884 SQFT

TREATMENT TANK AND DRAINFIELD
PROPOSED SYSTEM : PBTS (Advanced Secondary Treatment Standards)
MINIMUM REQUIRED TREATMENT CAPACITY = 750 GPD
DRAINFIELD CONFIGURATION : TRENCH
DRAINFIELD TYPE : STANDARD (SYSTEM#1)
DRAINFIELD MATERIAL : CHAMBER ARC 24
MAXIMUM SEWAGE LOADING RATE FOR THE PROPOSED DRAINFIELD = 0.8 GAL/FT²DAY
DRAINFIELD SIZE = 650 GPD / 0.8 GAL/FT²DAY = 813 FT²

SEPARATION BETWEEN THE SHWT AND BOTTOM OF THE DRAINFIELD (ELEVATIONS IN NGVD)
GRADE ELEVATION = 9.8 FT
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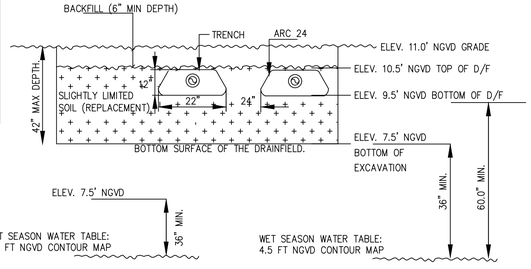
ELEVATION AT THE BOTTOM OF THE DRAINFIELD = 8.2 FT
SEPARATION BETWEEN SHWT AND BOTTOM OF DRAINFIELD = 44.4 INCHES

SYSTEM # 2

FINISHED FLOOR.

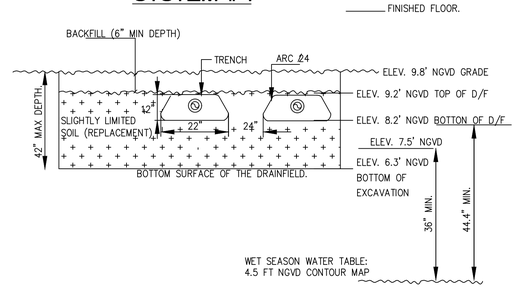


DRAINFIELD CROSS SECTION

N.T.S.

SYSTEM # 1

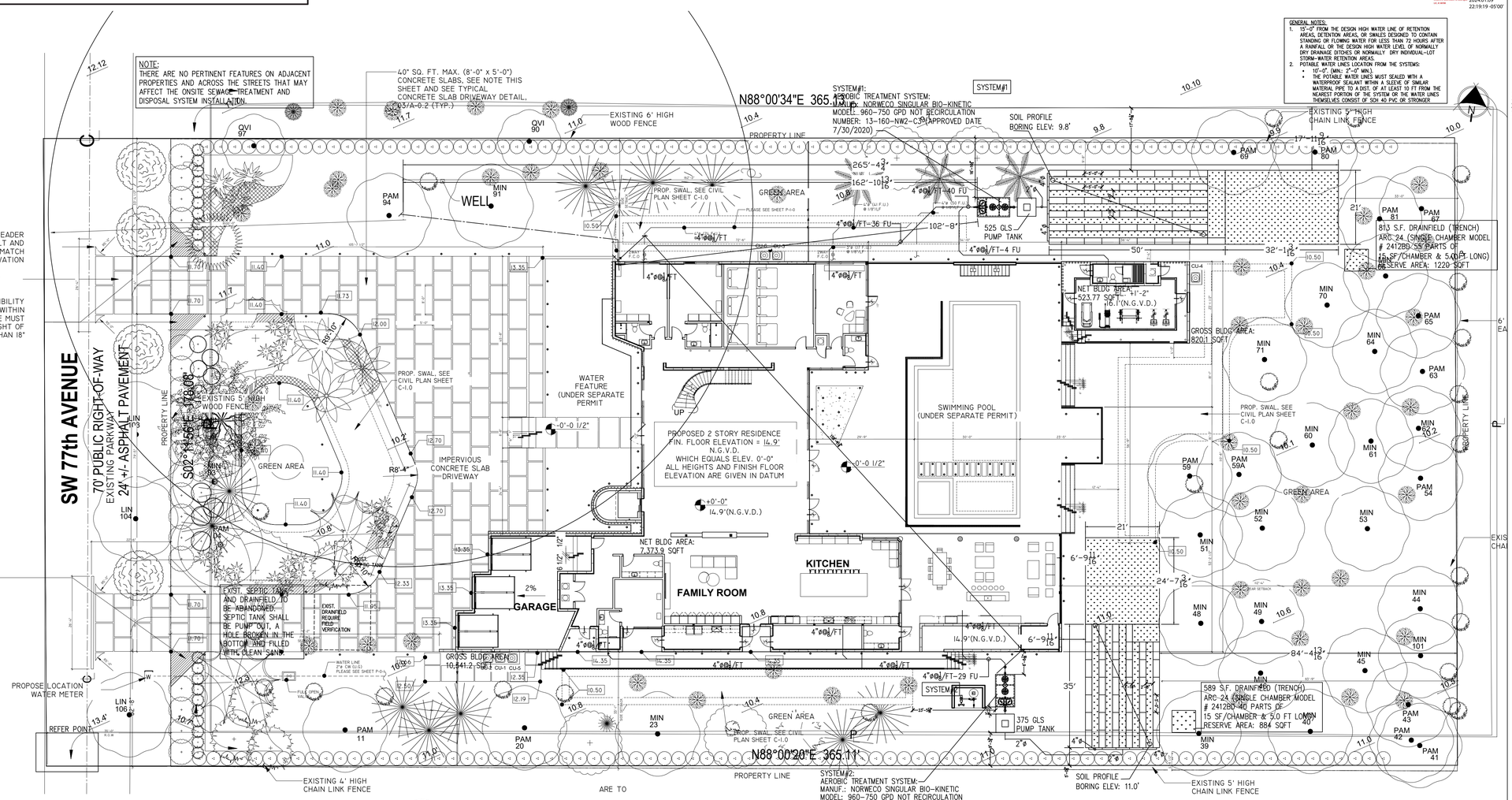
FINISHED FLOOR.



DRAINFIELD CROSS SECTION

N.T.S.

Digitally signed by Ernesto Santana
Date: 2024.01.09 22:19:19 -05'00'



FIXTURE UNITS CALCULATIONS

SANITARY SYSTEM No.#1 EXIST. DRAINAGE FIXTURE UNIT COUNT	
GUEST BATHRM#1	6FU
GUEST BATHRM#2	6FU
BATHRM # 3	6FU
BATHRM # 4	6FU
BATHRM # 5	6FU
BATHRM # 6	6FU
GYM BATHRM	4FU
TOTAL FIXTURE UNITS	40FU
TOTAL HOUSE COUNT	69 FU

SANITARY SYSTEM No.#1

TOTAL GALLONS PER DAY=1120 GPD
TOTAL FIXTURE UNITS= 40 + 29 = 69 FU
40/69=0.5797 x1120= 650 GPD
SEPTIC TANK 1500 GAL. / DOSING TANK 525 GLS REQ.
DRAINFIELD 813 SQFT TRENCH (55CHAMBERS)
RESERVE AREA: 407 SQFT
TOTAL SYSTEM AREA 1220 SQFT

SANITARY SYSTEM No.#2 DRAINAGE FIXTURE UNIT COUNT	
MBATH RM	9FU
LAUNDRY	2FU
POOL BATHRM	4FU
BBQ BATHRM	4FU
SERV. BATHRM	6FU
BBQ SINK	2FU
KITCHEN SINK	2FU
TOTAL FIXTURE UNITS	29FU
TOTAL HOUSE COUNT	69 FU

SANITARY SYSTEM No.#2

TOTAL GALLONS PER DAY= 1120 GPD
TOTAL FIXTURE UNITS= 40 + 29 = 69 FU
29/69= 0.4202 x 1120= 471 GPD
SEPTIC TANK 1200 GAL. / DOSING TANK 375 GLS REQ.
DF 589 SQFT
1400 SQFT X 0.4202= 589 SQFT REQ DRAINFIELD
(40 CHAMBERS)
RESERVE AREA 295 SQFT
TOTAL AREA: 884 SQFT

SITE PLAN PLUMBING

SCALE 1/16"= 1'-0"

NOTE:
THERE ARE NO PERTINENT FEATURES ON ADJACENT PROPERTIES AND ACROSS THE STREETS THAT MAY AFFECT THE ONSITE SEWAGE TREATMENT AND DISPOSAL SYSTEM INSTALLATION.

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2023021890 - 7/9/2024 11:49:47 AM
Site Plan -.pdf

Examiner	Date Time Stamp	Trade	Stamp Name
GUILLARTE, YAILYN	2/26/2024 1:34:45 PM	DERM	Approved
ROJAS, RICHARD	2/26/2024 1:35:31 PM	OTDS	Approved

Ernesto Santana, P.E., LEED ® AP
CONSULTING ENGINEERS
P.E.# 60788–MECHANICAL
16438 S.W. 85Ln, Miami, Florida 33193
Phone:(786)564-4040

ERNESTO SANTANA LICENSE No. 60788 STATE OF FLORIDA PROFESSIONAL ENGINEER

SEAL:

THIS ITEM HAS BEEN DIGITALLY SIGN AND SEALED BY ERNESTO SANTANA P.E. LIC.:60788 ON PRINTED COPIES OF THIS DOCUMENT ARE NOT CONSIDERED SIGNED AND SEALED AND THE SIGNATURE MUST BE VERIFIED ON ANY ELECTRONIC COPIES.

SITE PLAN
ONSITE SEWAGE TREATMENT

NEW SINGLE FAMILY HOME
11041 SW 77 AVE. PINECREST, FL 33156

REVISION		
No.	DESCRIPTION	DATE:

JOB No. 123–2023

SITE PLAN

DATE: 11/13/2023

SP-2.00

3 OF 5

COVER LETTER:

PROJECT LOCATION: 11041 SW 77 AVE, PINECREST, FL 33156

TO WHOM CONCERN:

SYSTEM MEETING BASELINE SYSTEM STANDARDS WITH ADVANCED SECONDARY TREATMENT STANDARDS CONSISTING OF ONE NORWECO SINGULAR BIO-KINETIC TREATMENT UNIT (MODEL 960-750 GPD.) WITH A CORRESPONDING DRAINFIELD AS DISPOSAL SYSTEM.

REQUIREMENTS:

THE NORWECO SINGULAR BIO-KINETIC TREATMENT UNIT (MODEL 960-750 GPD.), WHEN PROPERLY MAINTAINED AND OPERATED, CAN REDUCE EFFLUENT TO LESS THAN 10 MG/L FOR CBOD 5, TSS, THE TP CAN BE REDUCE BY A PHOSPHORUS REMOVAL FILTER (PHOS-4-FADE) TO LESS THAN 1.0 ML/L . THE FECAL COLIFORM WILL BE TREATED BY A CHLORINATION/DESCHLORINATION SYSTEM LESS THAN 200 FC COL/100 ML.

CERTIFICATION OF DESIGN:

PROJECT LOCATION: 11041 SW 77 AVE, PINECREST, FL 33156
TO WHOM CONCERN:

I CERTIFY THE ENGINEERING FEATURES OF THIS ADVANCED SECONDARY TREATMENT STANDARDS SYSTEM HAVE BEEN DESIGNED OR SPECIFIED BY ME AND CONFORM TO ENGINEERING PRINCIPLES APPLICABLE TO SUCH PROJECTS. IN MY PROFESSIONAL JUDGMENT, THIS SYSTEM, WHEN PROPERLY CONSTRUCTED, OPERATED AND MAINTAINED, WILL ACHIEVE THE ESTABLISHED PERFORMANCE STANDARD AND COMPLY WITH ALL APPLICABLE STATUS OF THE STATE OF FLORIDA AND RULES OF THE DEPARTMENT.

MONITORING REQUIREMENTS:

1-PONDING DEPTH QUARTERLY INSPECTION SHOULD BE DONE (MEMO HSES-10-001)
2-FECAL COLIFORMS SEMI ANNUALLY.
3- CBOD5 AND TSS SEMI ANNUALLY
(MEMO# HSES 08-003)

LOCATION:

ON TOP OF THE OBSERVATION PORT AT DRAINFIELD

FRECUENCY:

ON A QUARTERLY BASIS

SYSTEM DESIGN CRITERIA

PBTS (ASTS) STANDARDS BY FLORIDA HEATH

CBOD5	≤	10 MG/L
TSS	≤	10 MG/L
TN	=	50% REMOVAL REQ.
TP	≤	10 MG/L
FECAL	≤	OR < 200 FC COL/100 ML

FLOW - 1120 G.P.D. SEWAGE FLOW SYSTEM

DRAIN-FIELD AREA REQUIRED	=	1400 FT2
UNOBSTRUCTED AREA PROVIDED	=	700 FT2
TOTAL SYSTEM AREA:	=	2100 SQFT

*SEE ATTACHED WITH ADDITIONAL DESIGN CALCULATIONS.

CONTINGENCY PLAN

1. AT THE HIGH WATER LEVEL, THE SYSTEM WILL START AN ALARM. THE OWNER MUST CONTACT THE MAINTENANCE ENTITY WITHIN 24 HOURS.
2. MAINTENANCE ENTITY PERSONNEL WILL INSPECT THE SYSTEM AND MAKE NECESSARY REPAIRS WITHIN 36 HOURS PER 64E-6.012(4)(B).
3. OWNER SHALL PUMP TANKS AS REQUIRED (NECESSARY) TO KEEP TRASH OUT OF AERATION CHAMBER.

OPERATION AND MAINTENANCE

THE OPERATIONS AND MAINTENANCE MANUALS ARE PROVIDED TO THE INSTALLER AND MAINTENANCE ENTITY AT THE TIME OF INSTALLATION. THESE MANUALS HAVE MOSTLY LIKELY BEEN PREVIOUSLY SUBMITTED TO THE COUNTY HEALTH OFFICE. COPIES CAN BE PROVIDED UPON REQUEST.

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THE INSTALLATION INSTRUCTIONS WILL BE PROVIDED BY NORWECO FOR ANY NEW INSTALLERS. NEW INSTALLERS WILL HAVE A NORWECO SYSTEMS AND DESIGN REPRESENTATIVE ON SITE WITH THEM TO ENSURE PROPER CONSTRUCTION OF THE SYSTEM.

OFFICE OF THE PROPERTY APPRAISER

Summary Report

Generated On : 9/14/2022

Property Information	
Folio:	20-5011-000-0390
Property Address:	11041 SW 77 AVE Pinecrest, FL 33156-3772
Owner	PAOLO FIDANZA MILENA DORIA
Mailing Address	11041 SW 77 AVE PINECREST, FL 33156 USA
PA Primary Zone	2300 ESTATES - 1 ACRE
Primary Land Use	0802 MULTIFAMILY 2-9 UNITS : 2 LIVING UNITS
Beds / Baths / Half	4 / 3 / 0
Floors	1
Living Units	2
Actual Area	Sq.Ft
Living Area	Sq.Ft
Adjusted Area	1,881 Sq.Ft
Lot Size	69,260 Sq.Ft
Year Built	Multiple (See Building Info.)

Assessment Information			
Year	2022	2021	2020
Land Value	$1,384,290	$1,128,200	$902,560
Building Value	$14,051	$107,937	$45,986
XF Value	$227	$2,304	$1,168
Market Value	$1,398,568	$1,238,441	$949,714
Assessed Value	$1,398,568	$1,044,685	$949,714

Benefits Information				
Benefit	Type	2022	2021	2020
Non-Homestead Cap	Assessment Reduction		$193,756	

Note: Not all benefits are applicable to all Taxable Values (i.e. County, School Board, City, Regional).

Short Legal Description
11 55 40 1.59 AC
N1/2 OF W1/2 OF SW1/4 OF SW1/4 OF
NW1/4 LESS N155FT & N1/2 OF W66FT
OF E1/2 OF SW1/4 OF SW1/4 OF NW
1/4 LESS N155FT

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PLUMBING GENERAL NOTES:

1. THE CONTRACTOR SHALL FURNISH ALL LABOR, MATERIALS AND EQUIPMENT NECESSARY FOR THE INSTALLATION OF A COMPLETE PLUMBING SYSTEM IN ACCORDANCE WITH THESE DRAWINGS, THE APPLICABLE EDITION OF THE FLORIDA BUILDING CODE 2017, ALL OTHER APPLICABLE STATE, COUNTY AND LOCAL CODES AND ORDINANCES
2. THE CONTRACTOR SHALL PAY ALL INSPECTION FEES. ALL COSTS OF PERMITS AND ALL OTHER COSTS INCIDENTAL TO THE COMPLETION AND TESTING OF THIS WORK UPON FINAL. ACCEPTANCE A CERFICATE FROM THE LOCAL INSPECTION AUTHORITY SHALL BE FURNISHED TO THE OWNER.
3. ALL MATERIALS AND EQUIPMENTS SHALL BE NEW, OF U.S. MANUFACTURER AND OF GOOD QUALITY OF RESPECTIVE KIND AND GRADE, AND MUST BE FURNISHED SO AS TO PREVENT AND DELAY IN THE PROGRESS OF THE WORK. ALL WORK THROUGHOUT SHALL BE PERFORMED IN A WORKMAN-LIKE MANNER BY SUFFICIENT NUMBER OF SKILLED WORKMEN.
4. THE CONTRACTOR SHALL VISIT THE SITE AND REVIEW ALL PERTINENT UTILITY DRAWINGS TO FAMILIARIZE HIMSELF WITH THE LOCATION OF ALL EXISTING AND/OR PROPOSED UTILITY STUB OUTS, PIPING, EQUIPMENT, ETC., AND MAKE DUE ALLOWANCE FOR ANY CONDITION AFFECTING HIS WORK.
5. ALL UNDERGROUND SANITARY & STORM DRAINAGE PIPING AND FITTINGS SHALL BE PVC-DWV (ASTM D-2662/D-3034).
6. ALL ABOVE GROUND SANITARY & STORM DRAINAGE BRANCH & VENT PIPES AND FITTING SHALL BE PVC-DWV (ASTM D-2662/D-3034).
7. PROVIDE CLEANOUTS (WITH CHROME PLATED WALL OR FLOOR ACCESS FRAME AND COVERS AS REQUIRED) AT THE BASE OF ALL WASTE AND/OR VENT STACKS. PROVIDE PITCH PANS & LEADS FLASHING FOR ALL SANITARY SYSTEM VENTS.
8. ALL HORIZONTAL WASTE PIPING SHALL BE SLOPPED AT 1/8 PER FOOT, UNLESS OTHERWISE NOTED.
9. CONTRACTOR SHALL VERIFY SLOPE AND DEPTHS AND LOCATIONS OF CONNECTION POINTS TO EXISTING PRESSURE OR DRAINAGE LINES BEFORE STARTING WORK.

MANUFACTURER INFORMATION:

BASED ON THE INFORMATION PROVIDED BY NORWECO, (NSF STANDARD 40 AND 245 FINAL REPORTS) AND UNDERSTANDING THAT THESE RESULTS HAVE BEEN APPLIED TO THE LARGER UNITS AND CERTIFIED BY NSF, THE NORWECO AEROBIC SYSTEM, WHEN PROPERLY CONSTRUCTED, OPERATED AND MAINTAINED WILL ACHIEVE THE ESTABLISHED PERFORMANCE STANDARD IN THIS SUBMITTAL AND COMPLY WITH ALL APPLICABLE STATUS OF THE STATE OF FLORIDA AND RULES OF THE DEPARTMENT.

METHOD OF MONITORING FLOW THROUGH SYSTEM:

USED OF THE FLOW METER READING

NOTE:
THERE ARE NO PERTINENT FEATURES ON ADJACENT PROPERTIES AND ACROSS THE STREETS THAT MAY AFFECT THE ONSITE SEWAGE TREATMENT AND DISPOSAL SYSTEM INSTALLATION.

AUTHORIZED SEWAGE FLOW:

LOT SIZE (SFT) / 43,560 ACRE X 1,500 GPD

69,260 SQFT / 43,560 ACRE X 1,500 GPD =

1.58999 X 2500 = 2384.98 GPD

ERNESTO SANTANA, P.E. LEED @AP
LIC. #: 60788

Digitally signed by Ernesto Santana
Date: 2023.12.05 23:48:06 -05'00'

ON SITE SEWAGE SYSTEM CALCULATION AS PER 62-6 AND ORDNANCE.
MAIN HOUSE HOUSE
S.F.H. 8 BEDROOMS W/11,291.03 SQFT OF CONDITION SPACE.
GUEST HOUSE EXE. RM W/523.77 SQFT OF CONDITION SPACE
2251 - 3300 SQFT OF BLDG AREA 400 G.P.D. ESTIMATED SEWAGE FLOW
FOR EACH ADD BEDRM OR ADDITIONAL 750 SQFT OF BLDG 60 G.P.D.
11,814.8-3300= 8514.8 / 750) x 60= 681.18 G.P.D. 720 G.P.D.
TOTAL: 1120 G.P.D.

DRAIN-FIELD: AS PER TABLE NO III TRENCH SYSTEMS:
RATE ABSORPTION IN GPD/SF/DAY = 0.8
ESTIMATED SEWAGE FLOW (G.P.D.) = 1120 / 0.8 = 1325 SQFT DF/ 663 SQFT RA
TOTAL: 1988 SQFT

NORWECO SINGULAR TNT 960-750 / NOT RECIRCULATION
W/CHLORINATION/DESCHLORINATION SYSTEM
ADVANCED SECONDARY TREATMENT STANDARDS TYPE 3:
BY 62-6.017, (4)

STANDARD		NORWECO SINGULAR 960 750 SYSTEM	
CBOD5	< 10 MG/L	CBOD5	< 6 MG/L
TSS	< 10 MG/L	TSS	< 10 MG/L
TP	< 10 MG/L	TP	< 10 MG/L
TN	50 % REMOVAL	TN	53% RED
FECAL COLIFORM	< 200 FC COL/100ML	FECAL COLIFORM	< 2 FC COL/100ML

STANDARD FECAL COLIFORM IN THE EFFLUENT:

USING THE BLUE CRYSTAL DISINFECTION TABLETS WE HAVE A 99% REDUCTION OF FECAL EQUIVALENT TO 100 FC COL/100 ML

BLUE CRYSTAL TABLES CONTAIN 20 PPM COMBINED CHLORINE, BIO-NEUTRALIZER TABLE REMOVED CHLORINE TO NON-DETECT LEVELS.
THE TABLE FEEDER INSERT IN THE BIOKINETIC FILTER IS 18" HIGH AND EVERY TABLET HAS A THICKNESS OF 1", WHEN FULLY CHARGED THE FEED TUBE CAN LAST AN AVERAGE OF 6 MONTHS (180 DAYS) 18 TABLETS / 180 DAYS = 0.10 TABLET PER DAY NEEDED FOR CHLORINATION.
AS PER SPECS ATTACHED, TABLETS SHALL DISSOLVE IN DIRECT PROPORTION TO THE FLOW RATE, RELEASING CONTROLLED AMOUNTS OF CHLORINE.
CHLORINE CONTACT TIME REQUIRED FOR DISINFECTION 15 MINUTES, FREE CHLORINE 20 PPM, CHLORINE ON DEMAND 19.5 PPM AS PER SPECS ATTACHED

PROPOSE SYSTEM

FIXTURE UNITS CALCULATIONS

SANITARY SYSTEM No.#1 EXIST. DRAINAGE FIXTURE UNIT	COUNT
GUEST BATHRM#1	6FU
GUEST BATHRM#2	6FU
BATHRM # 3	6FU
BATHRM # 4	6FU
BATHRM # 5	6FU
BATHRM # 6	6FU
EXE. BATHRM	4FU
TOTAL FIXTURE UNITS	40FU
TOTAL HOUSE COUNT	69 FU

SANITARY SYSTEM No.#1

TOTAL GALLONS PER DAY=1120 GPD
TOTAL FIXTURE UNITS= 40 + 29 = 69 FU
40/69=0.5797 x1120= 650 GPD
DOSING TANK 525 GLS REQ.
DRAINFIELD 813 SQFT TRENCH (55CHAMBERS)
RESERVE AREA: 407 SQFT
TOTAL SYSTEM AREA 1220 SQFT

SANITARY SYSTEM No.#2 DRAINAGE FIXTURE UNIT	COUNT
MBATH RM	9FU
LAUNDRY	2FU
POOL BATHRM	4FU
BBQ BATHRM	4FU
SERV. BATHRM	6FU
BBQ SINK	2FU
KITCHEN SINK	2FU
TOTAL FIXTURE UNITS	29FU
TOTAL HOUSE COUNT	69 FU

SANITARY SYSTEM No.#2

TOTAL GALLONS PER DAY= 1120 GPD
TOTAL FIXTURE UNITS= 40 + 29 = 69 FU
29/69= 0.4202 x 1120= 471 GPD
DOSING TANK 375 GLS REQ.
DF 589 SQFT
1400 SQFT X 0.4202= 589 SQFT REQ DRAINFIELD (40 CHAMBERS)
RESERVE AREA 295 SQFT
TOTAL AREA: 884 SQFT

CALCULATION :
Standard Septic system:

Biochemical Oxygen Demand (BOD)

(1120 GPD) x (216 mg/l) x (3.7854 L/1 gal) x (1 lb/453592.4 mg) = 1.37 lbs/day

Suspended Solid (SS)

(1120 GPD) x (61 mg/l) x (3.7854 L/1 gal) x (1 lb/453592.4 mg) = 0.39 lbs/day

Total Nitrogen (TN)

(1120 GPD) x (60 mg/l) x (3.7854 L/1 gal) x (1 lb/453592.4 mg) = 0.38 lbs/day

Using an PBTS NSF 245

SYSTEM CALCULATION

Biochemical Oxygen Demand (BOD)

(1120 GPD) x (4 mg/l) x (3.7854 L/1 gal) x (1 lb/453592.4 mg) = 0.025 lbs/day

Suspended Solid (SS)

(1120 GPD) x (9 mg/l) x (3.7854 L/1 gal) x (1 lb/453592.4 mg) = 0.057 lbs/day

Total Nitrogen (TN)

(1120 GPD) x (19.2 mg/l) x (3.7854 L/1 gal) x (1 lb/453592.4 mg) = 0.121 lbs/day

CONCLUSION:

INSTALLATION OF THE PBTS SYSTEM DRAMATICALLY REDUCE THE AMOUNT OF BIOCHEMICAL OXYGEN DEMAND, SUSPENDED SOLID AND TOTAL NITROGEN DISCHARGE INTO THE DRAINFIELD

ADVANCE SECONDARY TREATMENT STANDARDS WERE ADJUSTED TO TAKE INTO ACCOUNT THE REDUCTION IN LOT SIZE. THE ADJUSTED TREATMENT STANDARDS THAT THE PROPOSED SYSTEM SHALL MEET, ARE AS FOLLOWS:

POLLUTANT - ANNUAL AVERAGE (MG/L)	Domestic Sewage Waste Range	Advanced Secondary Treatment Standards	Adjusted Advanced Secondary Treatment Standards for Non-Compliant Lot	PROPOSE SYSTEM	SYSTEM CALCULATION
				NORWECO SINGULAR BIO-KINETIC SYSTEM 960-500	RESULT FROM CALC
CBOD5	300	10	7.96	6 MG/L	0.025 LBS/DAY
TSS	200	10	7.96	9 MG/L	0.057 LBS/DAY
TN	100	30	23.89	5.4 MG/L	0.121 LBS/DAY
TP	18	10	7.96	3.2 MG/L	0.3- 1.0 MG/L (W/FILTER)
Fecal coliform (cfu/100ml)	2.00E+06	200	159.26	< 100 FC COL/100ML USING THE BLUE CRYSTAL DISINFECTION	< 100 FC COL/100ML USING THE BLUE CRYSTAL DISINFECTION

Ernesto Santana, P.E., LEED @AP
CONSULTING ENGINEERS
P.E.# 60788-MECHANICAL
16438 S.W. 85Ln, Miami,
Florida 33193
Phone:(786)564-4040

ERNESTO SANTANA LICENSE No. 60788 STATE OF FLORIDA PROFESSIONAL ENGINEER

SEAL:

THIS ITEM HAS BEEN DIGITALLY SIGN AND SEALED BY ERNESTO SANTANA P.E. LIC.:60788 ON PRINTED COPIES OF THIS DOCUMENT ARE NOT CONSIDERED SIGNED AND SEALED AND THE SIGNATURE MUST BE VERIFIED ON ANY ELECTRONIC COPIES.

GENERAL NOTES, SCHEDULES, DETAILS AND CALCULATIONS

NEW SINGLE FAMILY HOME
11041 SW 77 AVE, PINECREST, FL 33156

REVISION		
No.	DESCRIPTION	DATE:

JOB No. 123-2023

SITE PLAN

DATE: 11/13/2023

SP-1.00

1 OF 5

Miami Dade County Department of Regulatory and Economic Resources - Job Copy
2023021890 - 7/9/2024 11:49:47 AM
SP-1.00.pdf
Examiner Date Time Stamp Trade Stamp Name
FLORES, ANA 3/1/2024 11:48:26 AM HRS Approved

COVER LETTER:

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ON SITE SEWAGE SYSTEM CALCULATION AS PER 62-6 AND ORDNANCE.
MAIN HOUSE HOUSE
S.F.H. 7 BEDROOMS W/11,291.03 SQFT OF CONDITION SPACE.
GUEST HOUSE EXE. RM W/523.77 SQFT OF CONDITION SPACE
2251 - 3300 SQFT OF BLDG AREA 400 G.P.D. ESTIMATED SEWAGE FLOW
FOR EACH ADD BEDRM OR ADDITIONAL 750 SQFT OF BLDG 60 G.P.D.
11,814.8-3300= 8514.8 / 750) x 60= 681.18 G.P.D. 720 G.P.D.
TOTAL: 1120 G.P.D.

DRAIN-FIELD: AS PER TABLE NO III TRENCH SYSTEMS:
RATE ABSORPTION IN GPD/SF/DAY = 0.8
ESTIMATED SEWAGE FLOW (G.P.D.) = 1120 / 0.8 = 1325 SQFT DF/ 663 SQFT RA
TOTAL: 1988 SQFT

NORWECO SINGULAR TNT 960-750 / NOT RECIRCULATION
W/CHLORINATION/DESCHLORINATION SYSTEM
ADVANCED SECONDARY TREATMENT STANDARDS TYPE 3:

BY 62-6.017, (4) STANDARD		NORWECO SINGULAR 960 750 SYSTEM	
CBOD5	< 10 MG/L	CBOD5	< 6 MG/L
TSS	< 10 MG/L	TSS	< 10 MG/L
TP	< 10 MG/L	TP	< 10 MG/L
TN	50 % REMOVAL	TN	53% RED
FECAL COLIFORM	< 200 FC COL/100ML	FECAL COLIFORM	< 2 FC COL/100ML

PROPOSE SYSTEM

STANDARD FECAL COLIFORM IN THE EFFLUENT:

USING THE BLUE CRYSTAL DISINFECTION TABLETS WE HAVE A 99% REDUCTION OF FECAL EQUIVALENT TO 100 FC COL/100 ML

BLUE CRYSTAL TABLES CONTAIN 20 PPM COMBINED CHLORINE, BIO-NEUTRALIZER TABLE REMOVED CHLORINE TO NON-DETECT LEVELS.
THE TABLE FEEDER INSERT IN THE BIOKINETIC FILTER IS 18" HIGH AND EVERY TABLET HAS A THICKNESS OF 1", WHEN FULLY CHARGED THE FEED TUBE CAN LAST AN AVERAGE OF 6 MONTHS (180 DAYS) 18 TABLETS / 180 DAYS = 0.10 TABLET PER DAY NEEDED FOR CHLORINATION.
AS PER SPECS ATTACHED, TABLETS SHALL DISSOLVE IN DIRECT PROPORTION TO THE FLOW RATE, RELEASING CONTROLLED AMOUNTS OF CHLORINE.
CHLORINE CONTACT TIME REQUIRED FOR DISINFECTION 15 MINUTES, FREE CHLORINE 20 PPM, CHLORINE ON DEMAND 19.5 PPM AS PER SPECS ATTACHED

FIXTURE UNITS CALCULATIONS

SANITARY SYSTEM No.#1 DRAINAGE FIXTURE UNIT COUNT	
GUEST BATHRM#1	6FU
GUEST BATHRM#2	6FU
BATHRM # 3	6FU
BATHRM # 4	6FU
BATHRM # 5	6FU
BATHRM # 6	6FU
P. BATHRM	4FU
BATHSAUNA	4FU
TOTAL FIXTURE UNITS	44FU
TOTAL HOUSE COUNT	75 FU

SANITARY SYSTEM No.#1

TOTAL GALLONS PER DAY=1120 GPD
TOTAL FIXTURE UNITS= 44 + 31 = 75 FU
44/75=0.5867 x1120= 657 GPD
DOSING TANK 525 GLS REQ.
DRAINFIELD 822 SQFT TRENCH (55CHAMBERS)
RESERVE AREA: 411 SQFT
TOTAL SYSTEM AREA 1233 SQFT

SANITARY SYSTEM No.#2 DRAINAGE FIXTURE UNIT COUNT	
MBATH RM	9FU
LAUNDRY	2FU
LAUNDRY SINK	2FU
P. BATHRM 2	4FU
P. BATHRM 3	4FU
MAID'S BATHRM	6FU
BBQ SINK	2FU
KITCHEN SINK	2FU
TOTAL FIXTURE UNITS	31FU
TOTAL HOUSE COUNT	75 FU

SANITARY SYSTEM No.#2

TOTAL GALLONS PER DAY= 1120 GPD
TOTAL FIXTURE UNITS= 44 + 31 = 75 FU
31/75= 0.4133 x 1120= 463 GPD
DOSING TANK 375 GLS REQ.
DF 579 SQFT
1400 SQFT X 0.4133= 579 SQFT REQ DRAINFIELD (39 CHAMBERS)
RESERVE AREA 290 SQFT
TOTAL AREA: 869 SQFT

CALCULATION :
Standard Septic system:

Biochemical Oxygen Demand (BOD)
(1120 GPD) x (216 mg/l) x (3.7854 L/1 gal) x (1 lb/453592.4 mg) = 1.37 lbs/day

Suspended Solid (SS)
(1120 GPD) x (61 mg/l) x (3.7854 L/1 gal) x (1 lb/453592.4 mg) = 0.39 lbs/day

Total Nitrogen (TN)
(1120 GPD) x (60 mg/l) x (3.7854 L/1 gal) x (1 lb/453592.4 mg) = 0.38 lbs/day

Using an PBTS NSF 245

SYSTEM CALCULATION

Biochemical Oxygen Demand (BOD)
(1120 GPD) x (4 mg/l) x (3.7854 L/1 gal) x (1 lb/453592.4 mg) = 0.025 lbs/day

Suspended Solid (SS)
(1120 GPD) x (9 mg/l) x (3.7854 L/1 gal) x (1 lb/453592.4 mg) = 0.057 lbs/day

Total Nitrogen (TN)
(1120 GPD) x (19.2 mg/l) x (3.7854 L/1 gal) x (1 lb/453592.4 mg) = 0.121 lbs/day

CONCLUSION:

INSTALLATION OF THE PBTS SYSTEM DRAMATICALLY REDUCE THE AMOUNT OF BIOCHEMICAL OXYGEN DEMAND, SUSPENDED SOLID AND TOTAL NITROGEN DISCHARGE INTO THE DRAINFIELD

ADVANCE SECONDARY TREATMENT STANDARDS WERE ADJUSTED TO TAKE INTO ACCOUNT THE REDUCTION IN LOT SIZE. THE ADJUSTED TREATMENT STANDARDS THAT THE PROPOSED SYSTEM SHALL MEET, ARE AS FOLLOWS:

POLLUTANT - ANNUAL AVERAGE (MG/L)	Domestic Sewage Waste Range	Advanced Secondary Treatment Standards	Adjusted Advanced Secondary Treatment Standards for Non-Compliant Lot
CBODS	300	10	7.96
TSS	200	10	7.96
TN	100	30	23.89
TP	18	10	7.96
Fecal coliform (cfu/100ml)	2.00E+06	200	159.26

PROPOSE SYSTEM
NORWECO SINGULAR BIO-KINETIC SYSTEM 960-500
6 MG/L
9 MG/L
5.4 MG/L
3.2 MG/L
< 100 FC COL/100ML USING THE BLUE CRYSTAL DISINFECTION

SYSTEM CALCULATION
RESULT FROM CALC
0.025 LBS/DAY
0.057 LBS/DAY
0.121 LBS/DAY
0.3- 1.0 MG/L (W/FILTER)
< 100 FC COL/100ML USING THE BLUE CRYSTAL DISINFECTION

Ernesto Santana, P.E., LEED ® AP
CONSULTING ENGINEERS
P.E.# 60788-MECHANICAL
16438 S.W. 85Ln, Miami, Florida 33193
Phone:(786)564-4040

ERNESTO SANTANA LICENSE No. 60788 STATE OF FLORIDA PROFESSIONAL ENGINEER

ERNESTO SANTANA, PE 60788 @AP

Digitally signed by Ernesto Santana
Date: 2024.03.11 19:05:03 -04'00'

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GENERAL NOTES, SCHEDULES, DETAILS AND CALCULATIONS

NEW SINGLE FAMILY HOME
11041 SW 77 AVE, PINECREST, FL 33156

	REVISION	
No.	DESCRIPTION	DATE:
⚠	COMMENTS	3-5-24

JOB No. 123-2023

SITE PLAN

DATE: 11/13/2023

SP-1.00

1 OF 5

Miami Dade County Department of Regulatory and Economic Resources - Job Copy
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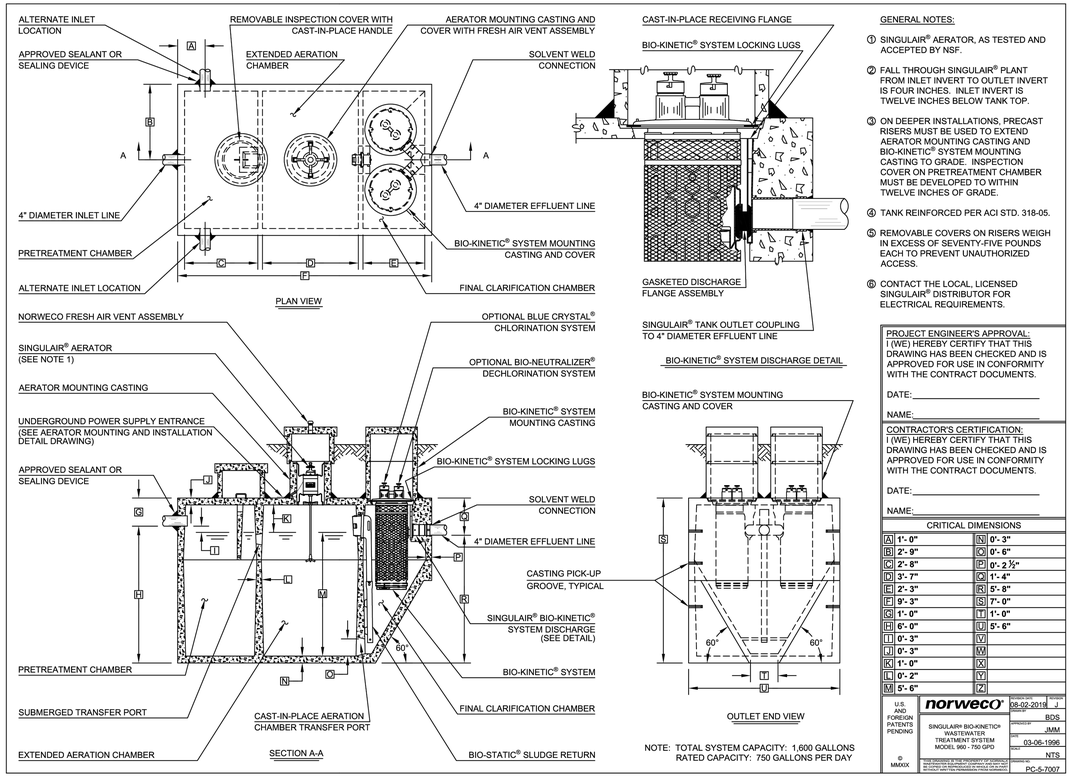
SP-1.00_V2.pdf

SEPTIC TANK TREATMENT UNIT SPECIFICATION (PBTS SYSTEM)
NUMBER: 13-160-NW2-C3



NOTE: TOTAL SYSTEM CAPACITY: 1,600 GALLONS
RATED CAPACITY: 750 GALLONS PER DAY

GENERAL NOTES:

1. SINGULAIR® AERATOR, AS TESTED AND ACCEPTED BY NSF.
2. FALL THROUGH SINGULAIR® PLANT FROM INLET INVERT TO OUTLET INVERT IS FOUR INCHES. INLET INVERT IS TWELVE INCHES BELOW TANK TOP.
3. ON DEEPER INSTALLATIONS, PRECAST RISERS MUST BE USED TO EXTEND AERATOR MOUNTING CASTING AND BIO-KINETIC® SYSTEM MOUNTING CASTING TO GRADE. INSPECTION COVER ON PRETREATMENT CHAMBER MUST BE DEVELOPED TO WITHIN TWELVE INCHES OF GRADE.
4. TANK REINFORCED PER ACI STD. 318-05.
5. REMOVABLE COVERS ON RISERS WEIGH IN EXCESS OF SEVENTY-FIVE POUNDS EACH TO PREVENT UNAUTHORIZED ACCESS.
6. CONTACT THE LOCAL, LICENSED SINGULAIR® DISTRIBUTOR FOR ELECTRICAL REQUIREMENTS.

PROJECT ENGINEER'S APPROVAL:
I (WE) HEREBY CERTIFY THAT THIS DRAWING HAS BEEN CHECKED AND IS APPROVED FOR USE IN CONFORMITY WITH THE CONTRACT DOCUMENTS.

DATE:_____

NAME:_____

CONTRACTOR'S CERTIFICATION:
I (WE) HEREBY CERTIFY THAT THIS DRAWING HAS BEEN CHECKED AND IS APPROVED FOR USE IN CONFORMITY WITH THE CONTRACT DOCUMENTS.

DATE:_____

NAME:_____

CRITICAL DIMENSIONS

A	1'- 0"	N	0'- 3"
B	2'- 9"	O	0'- 6"
C	2'- 8"	P	0'- 2 ½"
D	3'- 7"	Q	1'- 4"
E	2'- 3"	R	5'- 8"
F	9'- 3"	S	7'- 0"
G	1'- 0"	T	1'- 0"
H	6'- 0"	U	5'- 6"
I	0'- 3"	V	
J	0'- 3"	W	
K	1'- 0"	X	
L	0'- 2"	Y	
M	5'- 6"	Z	

U.S. AND FOREIGN PATENTS PENDING

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norweco®

SINGULAIR® BIO-KINETIC® WASTEWATER TREATMENT SYSTEM MODEL 960 - 750 GPD

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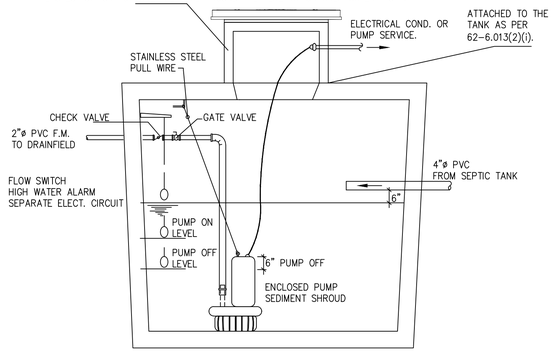
DATE	08-02-2019
REVISION	J
DRAWN BY	BDS
CHECKED BY	JMM
DATE	03-06-1996
SCALE	NTS
DRAWING NO.	PC-5-7007

RISER.
WHEN RISERS ARE USED, THE ELECTRICAL LINE AND THE EFFLUENT DOSING PIPE MAY PENETRATE THE RISER WALL PROVIDED THE PENETRATION IS ABOVE THE WET SEASON HIGH WATER TABLE ELEVATION AND THERE IS A WATER-TIGHT SEAL AROUND THE PENETRATIONS. WHEN THE TOP OF THE DOSING TANK IS PLACED MORE THAN 8 INCHES BELOW THE FINISHED GRADE, RISERS SHALL BE USED TO PROVIDE ACCESS WITHIN 8 INCHES OF THE FINISHED GRADE.

(1) RULE 62-6.013(2)(K) REQUIRES THAT IF A RISER IS USED, AND IF THE RISER ACCESS LID OPENS DIRECTLY TO THE RECEPTACLE INTERIOR, JOINTS AROUND THE RISER AND RECEPTACLE SHALL BE SEALED AND MADE WATERTIGHT AS SPECIFIED IN PARAGRAPH 62-6.013(2)(I), F.A.C., TO PROHIBIT INTRUSION OF GROUND WATER INTO THE RECEPTACLE. PLEASE CORRECT THE SPECIFICATION TO MAKE THE SEAL AROUND THE PENETRATION AREA WATER-TIGHT.



TYPICAL SUMP PIT DETAIL

NOTE:
1. PROVIDE WATERPROOF ELEC. INSTALLATION.
2. PROVIDE VISUAL & AUDIBLE ALARM.

SUMP PUMP SPECIFICATIONS.
PROVIDE A 3 LEVER FLOAT SWITCH AS FOLLOW:
0'-2' WATER TABLE PUMP OFF
2'-0" – 3'-6" PUMP ON. COMPLETED DOSING AT 30"
3'-6" – HIGHER PUMPS ON *
* WHEN THIS OCCUR OR PUMP IS BROKEN, THEN AN ALARM BE ACTUATED (LIGHT & BOOZER).

Digitally signed by Ernesto Santana
Date: 2023.12.05 23:48:41 -05'00'

ERNESTO SANTANA, P.E LEED @AP
LIC. #: 60788

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DETAILS AND CALCULATIONS

NEW SINGLE FAMILY HOME
11041 SW 77 AVE, PINECREST, FL 33156

REVISION		
No.	DESCRIPTION	DATE:

JOB No. 123-2023

SITE PLAN

DATE: 11/13/2023

SP-1.01

2 OF 5

LE50-SERIES
Sewage Pumps

Liberty Pumps®
A Family and Employee Owned Company

1/2 hp
2" Solids Handling
118 GPM at 10' TDH
25' Maximum Head

Features

- Heavy cast iron construction
- Oil-filled, thermally protected motor
- Permanently lubricated ball bearings
- 2 Vane corrosion resistant *HYTREL® impeller
- All stainless-steel fasteners and rotor shaft
- Quick-connect 10' standard power cord allows replacement of cord in seconds without breaking seals to motor. (25' length optional. 35' and 50' bare lead cords available.)

*HYTREL® is a registered trademark of DuPont Polymers

Vertical float switch models available in 115V

SSPMA CERTIFIED

innovate, evolve.

LE50-Series

Impeller
2 Vane semi-open capable of passing a 2" spherical solid

Paint
Powder coat

Max Fluid Temperature
104°F (40°C) Continuous duty
140°F (60°C) Intermittent

Motor
Submersible type, oil-filled, hermetically sealed, thermally protected

Power Cord Type
SJTW, Quick-connect 10' standard length (25' cord option or 35' and 50' bare lead option)

Motor Housing
Class 25 cast iron

Volute
Class 25 cast iron

Dimensional Data
Weight: LE51M: 42 lbs
Height: 14"
Major Width: 11.5" (manual models)

Shaft
Stainless

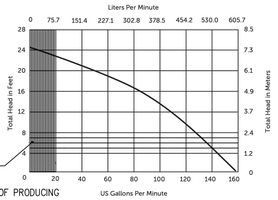
Hardware
Stainless

Mechanical Shaft Seal
Unitized ceramic carbon

Bearings
Upper and lower ball bearings

Float Switch (automatic models)
Wide-angle and vertical float switch available

Performance Curve
60 Hz, 1725 RPM



PUMP SELECTION
LE50 SERIA ½ HP
PUMP IS CAPABLE OF PRODUCING
2.0 GPM @ 6.06' OF HEAD

All Models

MODELS	HP	VOLTS	PHASE	AMPS	DISCHARGE SIZE	AUTOMATIC	IMPELLER
LE51M	1/2	115	1	12	2" FNPT	No	2 Vane Semi-Open
LE51A	1/2	115	1	12	2" FNPT	Wide-Angle Float Switch	2 Vane Semi-Open
LE51AV	1/2	115	1	12	2" FNPT	Vertical Float Switch	2 Vane Semi-Open
LE52M	1/2	208-230	1	6.8	2" FNPT	No	2 Vane Semi-Open
LE52A	1/2	208-230	1	6.8	2" FNPT	Wide-Angle Float Switch	2 Vane Semi-Open

SELECTION

10' cord standard on above models.
For 25' cord options, add a "-2" suffix to model number. Example: LE51A-2
For 35' bare lead cords, add a "-3" suffix to model number. Example: LE51A-3
For 50' bare lead cords, add a "-5" suffix to model number. Example: LE51A-5

Specifications subject to change without notice.

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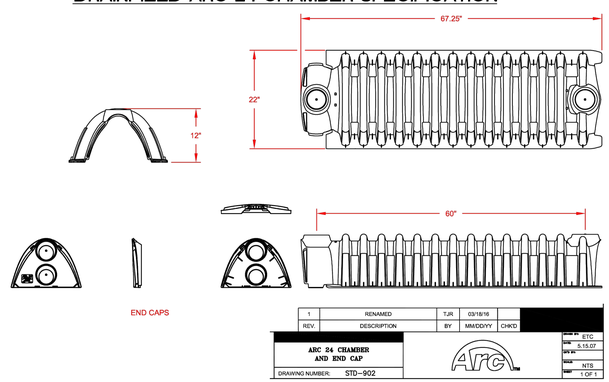
Liberty Pumps - 7000 Apple Tree Avenue - Bergen, New York 14416
Phone 800-543-2550 - Fax 585-494-1839 - LibertyPumps.com

DRAINFIELD ARC 24 CHAMBER SPECIFICATION



REV.	DESCRIPTION	BY	MM/DD/YY	CHK'D
1	RENAMED	TJR	03/18/16	

ARC 24 CHAMBER AND END CAP
DRAWING NUMBER: STD-902
ARC
ETC
5.15.07
NTS
1 OF 1

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SYSTEM # 1

DETERMINATION OF OSTDS TYPE AND STANDARDS PER SECTION 24-42.7

GROSS LOT SIZE = 71,301.2 FT² = 1.637 ACRES
LAND USE: Residencial
GROSS BUILDING AREA =(1,161.3 FT²
SEWAGE FLOW = 510 GPD
SEWAGE LOADING = 510 GPD / 1.637ACRES =311.54 GPD/ACRE

Y	N	CRITERIA FOR OSTDS TYPE SELECTION
Y		PROPERTY WILL BE SERVED BY PUBLIC WATER
Y		PROPERTY COMPLETELY OUTSIDE WELLFIELD PROTECTION AREA
	N	SURFACE WATER BODIES BEYOND 1000 FEET
Y		SEWAGE FLOW IS LESS THAN 500 GPD FOR SFR /DUPLEX
N	A	SEWAGE FLOW IS LESS THAN 1000 GPD FOR MULTI-FAMILY/OTHER USES
Y		SEWAGE LOADING LESS THAN 500 GPD/ACRE

Y	N	OTHER CONSIDERATIONS FOR OSTDS APPROVAL
Y		SANITARY SEWERS NOT AVAILABLE, ABUTTING, OR OPERATIVE
Y		SYSTEM WILL SERVE ONLY ONE LOT
N	A	PROPERTY LINES OVER 50 FEET FROM OSTDS FOR PROPERTIES SERVED BY A POTABLE WATER WELL

TYPE OF SYSTEM REQUIRED - PBTS (Advanced Secondary Treatment Standards TYPE III)
TOTAL NITROGEN TREATED BY : NORWECO SINGULAR 960-750
TOTAL PHOSPHORUS TREATED BY : NORWECO SINGULAR 960-750
FECAL COLIFORM TREATED BY : BLUE CRYSTAL DESINFECTION TANK
SOURCE OF TREATMENT STANDARDS : DEP Average Testing Performance Data for PBTS

TREATMENT STANDARDS		
POLLUTANT	REQUIRED (mg/L) (ANNUAL AVERAGE)	PROPOSED (mg/L) (ANNUAL AVERAGE)
$CBOD_5$	<10 MG/L	6
TSS	<10MG/L	10
TN	50% Removal	53% RED.
TP	<10 MG/L	10
FECAL COLIFORM (cfu/100ml)	<200 FC COL/100ML	<2 FC COL/100ML (99% RED.)

OSTDS CALCULATIONS PER CHAPTER 62-6 F.A.C.

NET LOT SIZE = 69260 FT² = 1.589 ACRES
LAND USE: Residencial
BUILDING AREA = 11814.08 FT²
1rdFL 7373.92 sqft + 2ndFL 3917.11 sqft + EXEC. BLDG 523.77 SQFT = 11,814.8 SQFT

SEWAGE FLOW
MAXIMUM SEWAGE LOADING ALLOWANCE = 1500 GPD/ACRE (1,500 GPD/ACRE OR 2,500 GPD/ACRE)
AUTHORIZED SEWAGE FLOW = 1500 GPD/ACRE x 1.589 ACRES = 2384.98 GPD
UNIT FLOW CRITERIA (PER TABLE 1) : BEDRMS/ BLDG AREA
SEWAGE FLOW PER UNIT FLOW = 100 G.P.D.X BEDRMS or per 750 sqft
TOTAL SEWAGE FLOW = 1120 GPD
System #1: 650 GPD DF: 813.SQFT / RA:1220 SQFT
SYSTEM#2: 471 GPD DF: 589 SQFT / RA: 884 SQFT

TREATMENT TANK AND DRAINFIELD
PROPOSED SYSTEM : PBTS (Advanced Secondary Treatment Standards)
MINIMUM REQUIRED TREATMENT CAPACITY = 750 GPD
DRAINFIELD CONFIGURATION : TRENCH
DRAINFIELD TYPE : STANDARD (SYSTEM#1)
DRAINFIELD MATERIAL : CHAMBER ARC 24
MAXIMUM SEWAGE LOADING RATE FOR THE PROPOSED DRAINFIELD = 0.8 GAL/FT²DAY
DRAINFIELD SIZE = 650 GPD / 0.8 GAL/FT²DAY = 813 FT²

SEPARATION BETWEEN THE SHWT AND BOTTOM OF THE DRAINFIELD (ELEVATIONS IN NGVD)
GRADE ELEVATION = 9.8 FT
SEASONAL HIGH WATER TABLE ELEVATION = 4.5 FT
ELEVATION AT THE BOTTOM OF THE DRAINFIELD = 8.2 FT
SEPARATION BETWEEN SHWT AND BOTTOM OF DRAINFIELD = 44.4 INCHES

SYSTEM # 2

DETERMINATION OF OSTDS TYPE AND STANDARDS PER SECTION 24-42.7

GROSS LOT SIZE = 71,301.2 FT² = 1.637 ACRES
LAND USE: Residencial
GROSS BUILDING AREA =(1,161.3 FT²
SEWAGE FLOW = 510 GPD
SEWAGE LOADING = 510 GPD / 1.637ACRES =311.54 GPD/ACRE

Y	N	CRITERIA FOR OSTDS TYPE SELECTION
Y		PROPERTY WILL BE SERVED BY PUBLIC WATER
Y		PROPERTY COMPLETELY OUTSIDE WELLFIELD PROTECTION AREA
	N	SURFACE WATER BODIES BEYOND 1000 FEET
Y		SEWAGE FLOW IS LESS THAN 500 GPD FOR SFR /DUPLEX
N	A	SEWAGE FLOW IS LESS THAN 1000 GPD FOR MULTI-FAMILY/OTHER USES
Y		SEWAGE LOADING LESS THAN 500 GPD/ACRE

Y	N	OTHER CONSIDERATIONS FOR OSTDS APPROVAL
Y		SANITARY SEWERS NOT AVAILABLE, ABUTTING, OR OPERATIVE
Y		SYSTEM WILL SERVE ONLY ONE LOT
N	A	PROPERTY LINES OVER 50 FEET FROM OSTDS FOR PROPERTIES SERVED BY A POTABLE WATER WELL

TYPE OF SYSTEM REQUIRED - PBTS (Advanced Secondary Treatment Standards TYPE III)
TOTAL NITROGEN TREATED BY : NORWECO SINGULAR 960-750
TOTAL PHOSPHORUS TREATED BY : NORWECO SINGULAR 960-750
FECAL COLIFORM TREATED BY : BLUE CRYSTAL DESINFECTION TANK
SOURCE OF TREATMENT STANDARDS : DEP Average Testing Performance Data for PBTS

TREATMENT STANDARDS		
POLLUTANT	REQUIRED (mg/L) (ANNUAL AVERAGE)	PROPOSED (mg/L) (ANNUAL AVERAGE)
$CBOD_5$	<10 MG/L	6
TSS	<10MG/L	10
TN	50% Removal	53% RED.
TP	<10 MG/L	10
FECAL COLIFORM (cfu/100ml)	<200 FC COL/100ML	<2 FC COL/100ML (99% RED.)

OSTDS CALCULATIONS PER CHAPTER 62-6 F.A.C.

NET LOT SIZE = 69260 FT² = 1.589 ACRES
LAND USE: Residencial
BUILDING AREA = 11814.08 FT²
1rdFL 7373.92 sqft + 2ndFL 3917.11 sqft + EXEC. BLDG 523.77 SQFT = 11,814.8 SQFT

SEWAGE FLOW
MAXIMUM SEWAGE LOADING ALLOWANCE = 1500 GPD/ACRE (1,500 GPD/ACRE OR 2,500 GPD/ACRE)
AUTHORIZED SEWAGE FLOW = 1500 GPD/ACRE x 1.589 ACRES = 2384.98 GPD
UNIT FLOW CRITERIA (PER TABLE 1) : BEDRMS/ BLDG AREA
SEWAGE FLOW PER UNIT FLOW = 100 G.P.D.X BEDRMS or per 750 sqft
TOTAL SEWAGE FLOW = 1120 GPD
System #1: 650 GPD DF: 813.SQFT / RA:1220 SQFT
SYSTEM#2: 471 GPD DF: 589 SQFT / RA: 884 SQFT

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SEPARATION BETWEEN THE SHWT AND BOTTOM OF THE DRAINFIELD (ELEVATIONS IN NGVD)
GRADE ELEVATION = 9.8 FT
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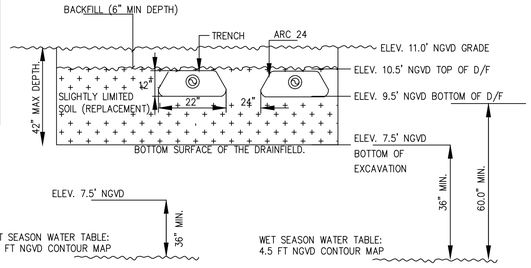
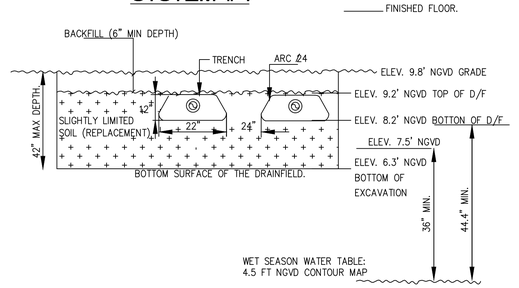
ELEVATION AT THE BOTTOM OF THE DRAINFIELD = 8.2 FT
SEPARATION BETWEEN SHWT AND BOTTOM OF DRAINFIELD = 44.4 INCHES

SYSTEM # 2



SYSTEM # 1



DRAINFIELD CROSS SECTION

N.T.S.

DRAINFIELD CROSS SECTION

N.T.S.

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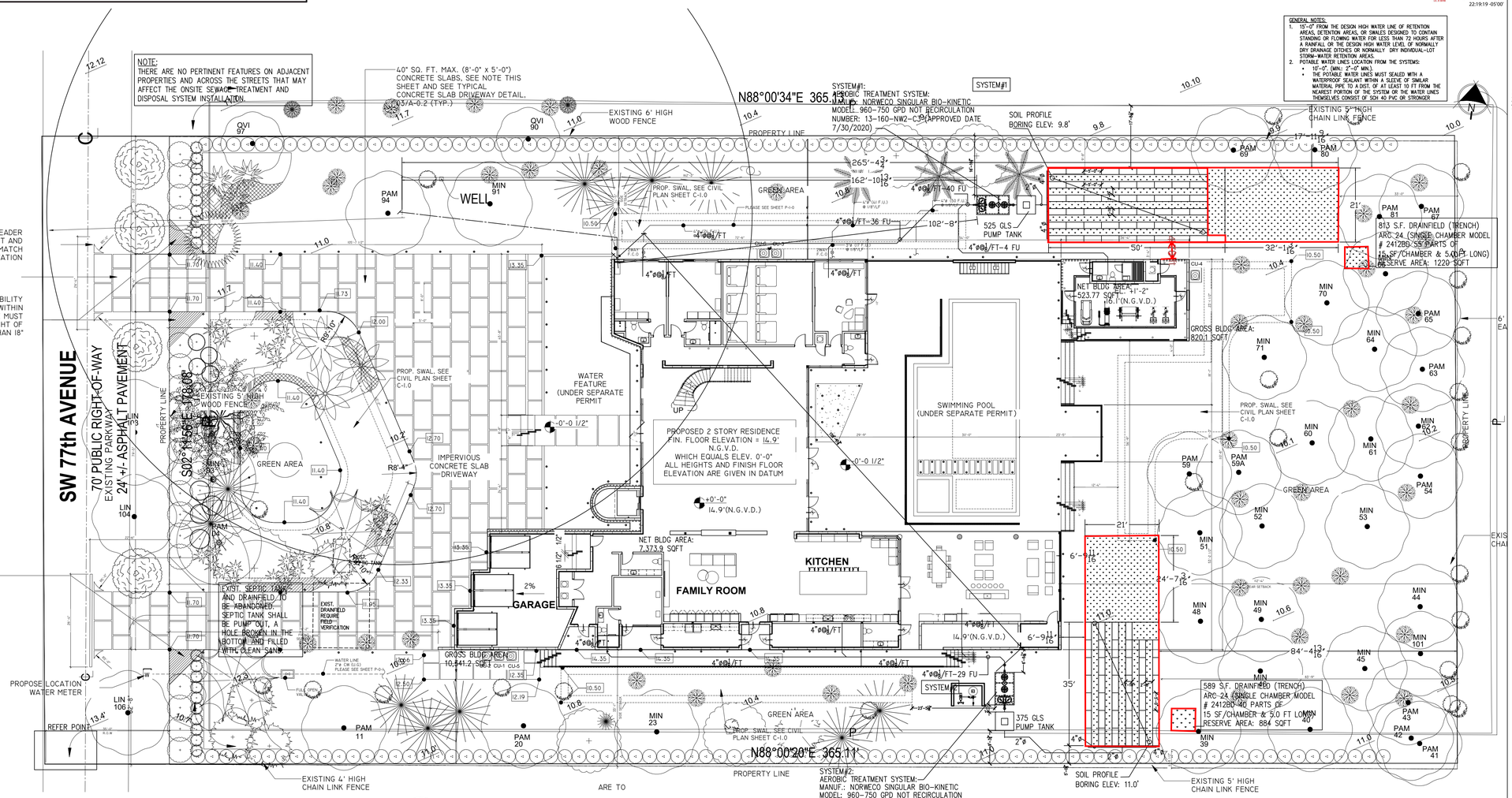

FIXTURE UNITS CALCULATIONS

SANITARY SYSTEM No.#1 EXIST. DRAINAGE FIXTURE UNIT COUNT	
GUEST BATHRM#1	6FU
GUEST BATHRM#2	6FU
BATHRM # 3	6FU
BATHRM # 4	6FU
BATHRM # 5	6FU
BATHRM # 6	6FU
GYM BATHRM	4FU
TOTAL FIXTURE UNITS	40FU
TOTAL HOUSE COUNT	69 FU

SANITARY SYSTEM No.#1

TOTAL GALLONS PER DAY=1120 GPD
TOTAL FIXTURE UNITS= 40 + 29 = 69 FU
40/69=0.5797 x1120= 650 GPD
SEPTIC TANK 1500 GAL. / DOSING TANK 525 GLS REQ.
DRAINFIELD 813 SQFT TRENCH (55CHAMBERS)
RESERVE AREA: 407 SQFT
TOTAL SYSTEM AREA 1220 SQFT

SANITARY SYSTEM No.#2 DRAINAGE FIXTURE UNIT COUNT	
MBATH RM	9FU
LAUNDRY	2FU
POOL BATHRM	4FU
BBQ BATHRM	4FU
SERV. BATHRM	6FU
BBQ SINK	2FU
KITCHEN SINK	2FU
TOTAL FIXTURE UNITS	29FU
TOTAL HOUSE COUNT	69 FU

SANITARY SYSTEM No.#2

TOTAL GALLONS PER DAY= 1120 GPD
TOTAL FIXTURE UNITS= 40 + 29 = 69 FU
29/69= 0.4202 x 1120= 471 GPD
SEPTIC TANK 1200 GAL. / DOSING TANK 375 GLS REQ.
DF 589 SQFT
1400 SQFT X 0.4202= 589 SQFT REQ DRAINFIELD
(40 CHAMBERS)
RESERVE AREA 295 SQFT
TOTAL AREA: 884 SQFT

SITE PLAN PLUMBING

SCALE 1/16"= 1'-0"

NOTE:
THERE ARE NO PERTINENT FEATURES ON ADJACENT PROPERTIES AND ACROSS THE STREETS THAT MAY AFFECT THE ONSITE SEWAGE TREATMENT AND DISPOSAL SYSTEM INSTALLATION.

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SITE PLAN
ONSITE SEWAGE TREATMENT

NEW SINGLE FAMILY HOME
11041 SW 77 AVE. PINECREST, FL 33156

REVISION		
No.	DESCRIPTION	DATE:

JOB No. 123-2023

SITE PLAN

DATE: 11/13/2023

SP-2.00

3 OF 5

SYSTEM # 1

DETERMINATION OF OSTDS TYPE AND STANDARDS PER SECTION 24-42.7

GROSS LOT SIZE = 71,301.2 FT² = 1.637 ACRES
LAND USE: Residencial
GROSS BUILDING AREA =11,161.3 FT²
SEWAGE FLOW = 510 GPD
SEWAGE LOADING = 510 GPD / 1.637 ACRES = 311.64 GPD/ACRE

Y	N	CRITERIA FOR OSTDS TYPE SELECTION
Y		PROPERTY WILL BE SERVED BY PUBLIC WATER
Y		PROPERTY COMPLETELY OUTSIDE WELLFIELD PROTECTION AREA
	N	SURFACE WATER BODIES BEYOND 1000 FEET
Y		SEWAGE FLOW IS LESS THAN 500 GPD FOR SFR /DUPLEX
N	A	SEWAGE FLOW IS LESS THAN 1000 GPD FOR MULTI-FAMILY/OTHER USES
Y		SEWAGE LOADING LESS THAN 500 GPD/ACRE

Y	N	OTHER CONSIDERATIONS FOR OSTDS APPROVAL
Y		SANITARY SEWERS NOT AVAILABLE, ABUTTING, OR OPERATIVE
Y		SYSTEM WILL SERVE ONLY ONE LOT
N	A	PROPERTY LINES OVER 50 FEET FROM OSTDS FOR PROPERTIES SERVED BY A POTABLE WATER WELL

TYPE OF SYSTEM REQUIRED : PBTS (Advanced Secondary Treatment Standards TYPE III)
TOTAL NITROGEN TREATED BY : NORWECO SINGULAR 960-750
TOTAL PHOSPHORUS TREATED BY : NORWECO SINGULAR 960-750
FECAL COLIFORM TREATED BY : BLUE CRYSTAL DESINFECTION TANK
SOURCE OF TREATMENT STANDARDS : DEP Average Testing Performance Data for PBTS

TREATMENT STANDARDS		
POLLUTANT	REQUIRED (mg/L) (ANNUAL AVERAGE)	PROPOSED (mg/L) (ANNUAL AVERAGE)
$CBOD_5$	<10 MG/L	6
TSS	<10MG/L	10
TN	50% Removal	53% RED.
TP	<10 MG/L	10
FECAL COLIFORM (cfu/100ml)	<200 FC COL/100ML	<2 FC COL/100ML (99% RED.)

OSTDS CALCULATIONS PER CHAPTER 62-6 F.A.C.

NET LOT SIZE = 69260 FT² = 1.589 ACRES
LAND USE: Residencial
BUILDING AREA = 11814.08 FT²
1rdFL 7373.92 sqft + 2ndFL 3917.11 sqft + EXEC. BLDG 523.77 SQFT = 11,814.8 SQFT

SEWAGE FLOW
MAXIMUM SEWAGE LOADING ALLOWANCE = 1500 GPD/ACRE (1,500 GPD/ACRE OR 2,500 GPD/ACRE)
AUTHORIZED SEWAGE FLOW = 1500 GPD/ACRE x 1.589 ACRES = 2384.98 GPD
UNIT FLOW CRITERIA (PER TABLE 1) : BEDRMS/ BLDG AREA
SEWAGE FLOW PER UNIT FLOW = 100 G.P.D.X BEDRMS or per 750 sqft
TOTAL SEWAGE FLOW = 1120 GPD
System #1: 657 GPD — DF: 822 SQFT / RA:1233 SQFT
SYSTEM#2: 463 GPD — DF: 579 SQFT / RA: 869 SQFT

TREATMENT TANK AND DRAINFIELD
PROPOSED SYSTEM : PBTS (Advanced Secondary Treatment Standards)
MINIMUM REQUIRED TREATMENT CAPACITY = 750 GPD
DRAINFIELD CONFIGURATION : TRENCH
DRAINFIELD TYPE : STANDARD (SYSTEM#1)
DRAINFIELD MATERIAL : CHAMBER ARC 24
MAXIMUM SEWAGE LOADING RATE FOR THE PROPOSED DRAINFIELD = 0.8 GAL/FT²DAY
DRAINFIELD SIZE = 657 GPD / 0.8 GAL/FT²DAY = 822 FT²

SEPARATION BETWEEN THE SHWT AND BOTTOM OF THE DRAINFIELD (ELEVATIONS IN NGVD)
GRADE ELEVATION = 9.8 FT
SEASONAL HIGH WATER TABLE ELEVATION = 4.5 FT
ELEVATION AT THE BOTTOM OF THE DRAINFIELD = 8.2 FT
SEPARATION BETWEEN SHWT AND BOTTOM OF DRAINFIELD = 44.4 INCHES

SYSTEM # 2

DETERMINATION OF OSTDS TYPE AND STANDARDS PER SECTION 24-42.7

GROSS LOT SIZE = 71,301.2 FT² = 1.637 ACRES
LAND USE: Residencial
GROSS BUILDING AREA =11,161.3 FT²
SEWAGE FLOW = 510 GPD
SEWAGE LOADING = 510 GPD / 1.637 ACRES = 311.64 GPD/ACRE

Y	N	CRITERIA FOR OSTDS TYPE SELECTION
Y		PROPERTY WILL BE SERVED BY PUBLIC WATER
Y		PROPERTY COMPLETELY OUTSIDE WELLFIELD PROTECTION AREA
	N	SURFACE WATER BODIES BEYOND 1000 FEET
Y		SEWAGE FLOW IS LESS THAN 500 GPD FOR SFR /DUPLEX
N	A	SEWAGE FLOW IS LESS THAN 1000 GPD FOR MULTI-FAMILY/OTHER USES
Y		SEWAGE LOADING LESS THAN 500 GPD/ACRE

Y	N	OTHER CONSIDERATIONS FOR OSTDS APPROVAL
Y		SANITARY SEWERS NOT AVAILABLE, ABUTTING, OR OPERATIVE
Y		SYSTEM WILL SERVE ONLY ONE LOT
N	A	PROPERTY LINES OVER 50 FEET FROM OSTDS FOR PROPERTIES SERVED BY A POTABLE WATER WELL

TYPE OF SYSTEM REQUIRED : PBTS (Advanced Secondary Treatment Standards TYPE III)
TOTAL NITROGEN TREATED BY : NORWECO SINGULAR 960-750
TOTAL PHOSPHORUS TREATED BY : NORWECO SINGULAR 960-750
FECAL COLIFORM TREATED BY : BLUE CRYSTAL DESINFECTION TANK
SOURCE OF TREATMENT STANDARDS : DEP Average Testing Performance Data for PBTS

TREATMENT STANDARDS		
POLLUTANT	REQUIRED (mg/L) (ANNUAL AVERAGE)	PROPOSED (mg/L) (ANNUAL AVERAGE)
$CBOD_5$	<10 MG/L	6
TSS	<10MG/L	10
TN	50% Removal	53% RED.
TP	<10 MG/L	10
FECAL COLIFORM (cfu/100ml)	<200 FC COL/100ML	<2 FC COL/100ML (99% RED.)

OSTDS CALCULATIONS PER CHAPTER 62-6 F.A.C.

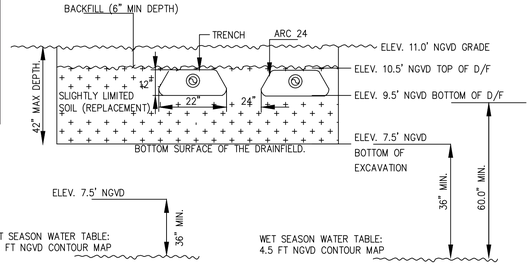
NET LOT SIZE = 69260 FT² = 1.589 ACRES
LAND USE: Residencial
BUILDING AREA = 11814.08 FT²
1rdFL 7373.92 sqft + 2ndFL 3917.11 sqft + EXEC. BLDG 523.77 SQFT = 11,814.8 SQFT

SEWAGE FLOW
MAXIMUM SEWAGE LOADING ALLOWANCE = 1500 GPD/ACRE (1,500 GPD/ACRE OR 2,500 GPD/ACRE)
AUTHORIZED SEWAGE FLOW = 1500 GPD/ACRE x 1.589 ACRES = 2384.98 GPD
UNIT FLOW CRITERIA (PER TABLE 1) : BEDRMS/ BLDG AREA
SEWAGE FLOW PER UNIT FLOW = 100 G.P.D.X BEDRMS or per 750 sqft
TOTAL SEWAGE FLOW = 1120 GPD
System #1: 657 GPD — DF: 822 SQFT / RA:1233 SQFT
SYSTEM#2: 463GPD — DF: 579 SQFT / RA: 869SQFT

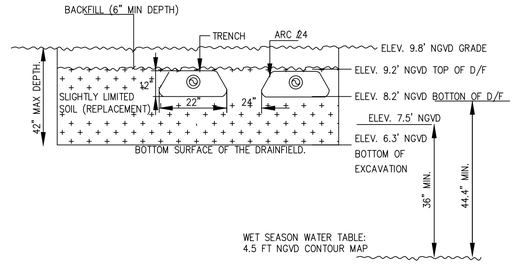
TREATMENT TANK AND DRAINFIELD
PROPOSED SYSTEM : PBTS (Advanced Secondary Treatment Standards)
MINIMUM REQUIRED TREATMENT CAPACITY = 750 GPD
DRAINFIELD CONFIGURATION : TRENCH
DRAINFIELD TYPE : STANDARD (SYSTEM#2)
DRAINFIELD MATERIAL : CHAMBER ARC 24
MAXIMUM SEWAGE LOADING RATE FOR THE PROPOSED DRAINFIELD = 0.8 GAL/FT²DAY
DRAINFIELD SIZE = 463 GPD / 0.8 GAL/FT²DAY = 579 FT²

SEPARATION BETWEEN THE SHWT AND BOTTOM OF THE DRAINFIELD (ELEVATIONS IN NGVD)
GRADE ELEVATION = 11.0 FT
SEASONAL HIGH WATER TABLE ELEVATION = 4.5 FT
ELEVATION AT THE BOTTOM OF THE DRAINFIELD = 9.5 FT
SEPARATION BETWEEN SHWT AND BOTTOM OF DRAINFIELD = 60.0 INCHES

SYSTEM # 2



SYSTEM # 1



DRAINFIELD CROSS SECTION

N.T.S.

DRAINFIELD CROSS SECTION

N.T.S.

ERNESTO SANTANA, PE LEED @AP
LIC.# 60788

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Date: 2024.03.12 17:29 -04'00'

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SITE PLAN
ONSITE SEWAGE TREATMENT

NEW SINGLE FAMILY HOME
11041 SW 77 AVE, PINECREST, FL 33156

REVISION		
No.	DESCRIPTION	DATE:
1	COMMENTS	3-5-24

JOB No. 123-2023

SITE PLAN

DATE: 11/13/2023

SP-2.00

3 OF 5

NOTE:
THERE ARE NO PERTINENT FEATURES ON ADJACENT PROPERTIES AND ACROSS THE STREETS THAT MAY AFFECT THE ONSITE SEWAGE TREATMENT AND DISPOSAL SYSTEM INSTALLATION.

SYSTEM#1: AEROBIC TREATMENT SYSTEM: MANUF.: NORWECO SINGULAR BIO-KINETIC MODEL: 960-750 GPD NOT RECIRCULATION NUMBER: 13-160-NW2-C3 (APPROVED DATE 7/30/2020)

822 S.F. DRAINFIELD (TRENCH) ARC 24 (SINGLE CHAMBER MODEL # 2412BD 55 PARTS OF 15 SF/CHAMBER & 5.0 FT LONG) RESERVE AREA: 1233 SQFT

GENERAL NOTES:
1. 15'-0" FROM THE DESIGN HIGH WATER LINE OF RETENTION AREAS, DETENTION AREAS, OR SWALES DESIGNED TO CONTAIN STANDING OR FLOWING WATER FOR LESS THAN 72 HOURS AFTER A RAINFALL OR THE DESIGN HIGH WATER LEVEL OF NORMALLY DRY DRAINAGE DITCHES OR NORMALLY DRY INDIVIDUAL-LOT STORM-WATER RETENTION AREAS.
2. POTABLE WATER LINES LOCATION FROM THE SYSTEMS:
   - 10'-0" (MIN.; 2'-0" MIN.).
   - THE POTABLE WATER LINES MUST SEALED WITH A WATERPROOF SEALANT WITHIN A SLEEVE OF SIMILAR MATERIAL PIPE TO A DIST. OF AT LEAST 10 FT FROM THE NEAREST PORTION OF THE SYSTEM OR THE WATER LINES THEMSELVES CONSIST OF SCH 40 PVC OR STRONGER

SOIL PROFILE BORING ELEV: 9.8'
SOIL PROFILE BORING ELEV: 11.0'
SYSTEM#1
SYSTEM#2
525 GLS PUMP TANK
375 GLS PUMP TANK
SAMPLING PORT
4"ø@1/FT-44 FU
4"ø@1/FT-40 FU
4"ø@1/FT-4 FU
4"ø@1/FT-31 FU
4"ø@1/FT
NET BLDG AREA: 523.77 SQFT
GROSS BLDG. AREA: 820.1 SQFT
NET BLDG AREA: 7,373.9 SQFT
GROSS BLDG. AREA: 10,541.2 SQFT
PROPOSED 2-STORY RESIDENCE FIN. FLOOR ELEVATION = 14.9' N.G.V.D. WHICH EQUALS ELEV. 0'-0" ALL HEIGHTS AND FINISH FLOOR ELEVATION ARE GIVEN IN DATUM
+0'-0" = 14.9'(N.G.V.D.)
KITCHEN
FAMILY ROOM
GARAGE
SWIMMING POOL (UNDER SEPARATE PERMIT)
WATER FEATURE (UNDER SEPARATE PERMIT)
GREEN AREA
IMPERVIOUS CONCRETE SLAB DRIVEWAY
PROP. SWAL, SEE CIVIL PLAN SHEET C-1.0
EXIST. SEPTIC TANK AND DRAINFIELD TO BE ABANDONED. SEPTIC TANK SHALL BE PUMP OUT, A HOLE BROKEN IN THE BOTTOM AND FILLED WITH CLEAN SAND.
EXIST. DRAINFIELD REQUIRE FIELD VERIFICATION
EXISTING 5' HIGH WOOD FENCE
EXISTING 4' HIGH CHAIN LINK FENCE
PROPERTY LINE
N88°00'34"E 365.13'
N88°00'20"E 365.11'
SW 77th AVENUE
70' PUBLIC RIGHT-OF-WAY
EXISTING PARKWAY
24' +/- ASPHALT PAVEMENT
S02°15'56"E 178.08'
WELL
PROPOSE LOCATION WATER METER
REFER POINT
579 S.F. DRAINFIELD (TRENCH) ARC 24 (SINGLE CHAMBER MODEL # 2412BD 39 PARTS OF 15 SF/CHAMBER & 5.0 FT LONG) RESERVE AREA: 869 SQFT
SYSTEM#2: AEROBIC TREATMENT SYSTEM: MANUF.: NORWECO SINGULAR BIO-KINETIC MODEL: 960-750 GPD NOT RECIRCULATION NUMBER: 13-160-NW2-C3 (APPROVED DATE 7/30/2020)

FIXTURE UNITS CALCULATIONS

SANITARY SYSTEM No.#1 DRAINAGE FIXTURE UNIT COUNT	
GUEST BATHRM#1	6FU
GUEST BATHRM#2	6FU
BATHRM # 3	6FU
BATHRM # 4	6FU
BATHRM # 5	6FU
BATHRM # 6	6FU
P. BATHRM	4FU
BATH/SAUNA	4FU
TOTAL FIXTURE UNITS	44FU
TOTAL HOUSE COUNT	75 FU

SANITARY SYSTEM No.#1
TOTAL GALLONS PER DAY=1120 GPD
TOTAL FIXTURE UNITS= 44 + 31 = 75 FU
44/75=0.5867 x1120= 657 GPD
DOSING TANK 525 GLS REQ.
DRAINFIELD 822 SQFT TRENCH (55CHAMBERS)
RESERVE AREA: 411 SQFT
TOTAL SYSTEM AREA 1233 SQFT

SANITARY SYSTEM No.#2 DRAINAGE FIXTURE UNIT COUNT	
MBATH RM	9FU
LAUNDRY	2FU
LAUNDRY SINK	2FU
P. BATHRM 2	4FU
P. BATHRM 3	4FU
MAID'S BATHRM	6FU
BBQ SINK	2FU
KITCHEN SINK	2FU
TOTAL FIXTURE UNITS	31FU
TOTAL HOUSE COUNT	75 FU

SANITARY SYSTEM No.#2
TOTAL GALLONS PER DAY= 1120 GPD
TOTAL FIXTURE UNITS= 44 + 31 = 75 FU
31/75= 0.4133 x 1120= 463 GPD
DOSING TANK 375 GLS REQ.
DF 579 SQFT
1400 SQFT X 0.4133= 579 SQFT REQ DRAINFIELD (39 CHAMBERS)
RESERVE AREA 290 SQFT
TOTAL AREA: 869 SQFT

SITE PLAN PLUMBING

SCALE 1/16"= 1'-0"

NOTE:
THERE ARE NO PERTINENT FEATURES ON ADJACENT PROPERTIES AND ACROSS THE STREETS THAT MAY AFFECT THE ONSITE SEWAGE TREATMENT AND DISPOSAL SYSTEM INSTALLATION.

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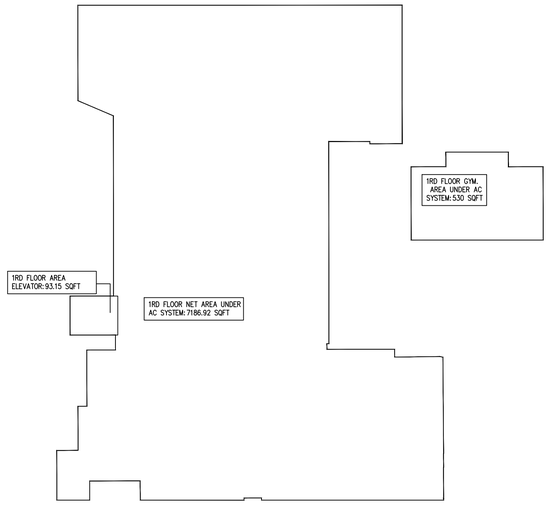
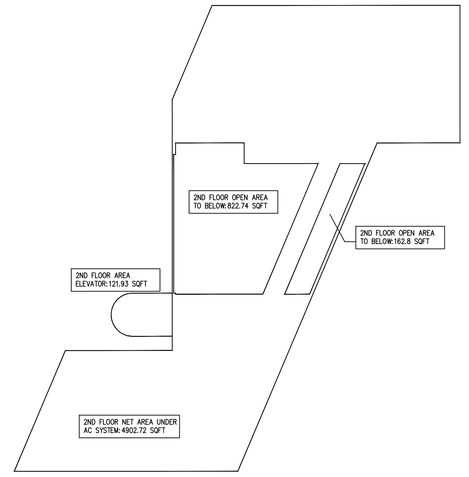


SINGLE FAMILY HOME FIRST FL AREA

SCALE 1/16"= 1'-0"



SINGLE FAMILY HOME SECOND FL AREA

SCALE 1/16"= 1'-0"

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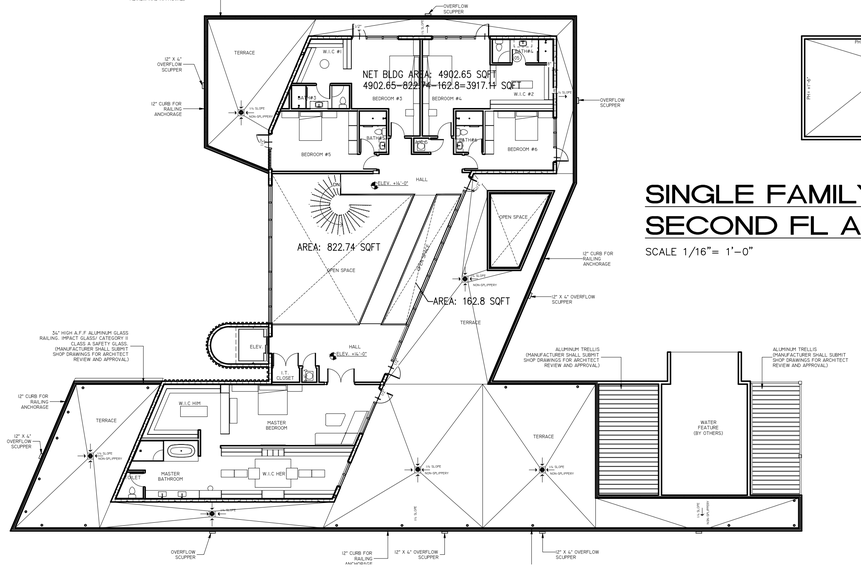
LIC. #: 60788



SINGLE FAMILY HOME SECOND FL AREA

SCALE 1/16"= 1'-0"

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BLDGS AREA
REFER ONLY

NEW SINGLE FAMILY HOME
11041 SW 77 AVE, PINECREST, FL 33156

	REVISION	
No.	DESCRIPTION	DATE:

JOB No. 123-2023

SITE PLAN

DATE: 11/13/2023

SP-2.00

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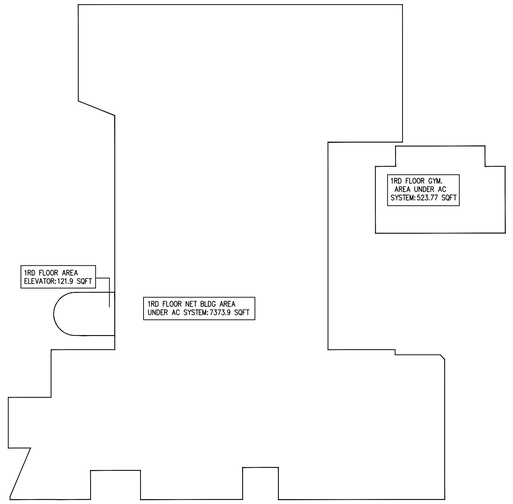
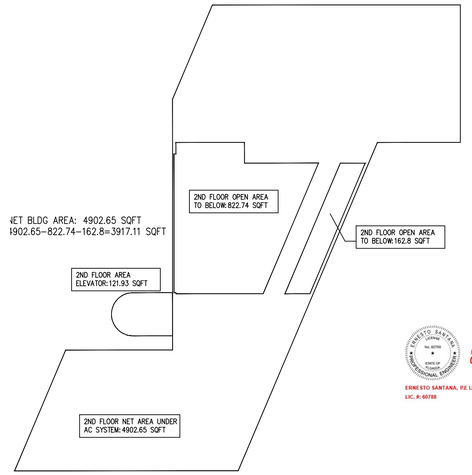


SINGLE FAMILY HOME FIRST FL AREA

SCALE 1/16"= 1'-0"



SINGLE FAMILY HOME SECOND FL AREA

SCALE 1/16"= 1'-0"

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LIC. #: 60788

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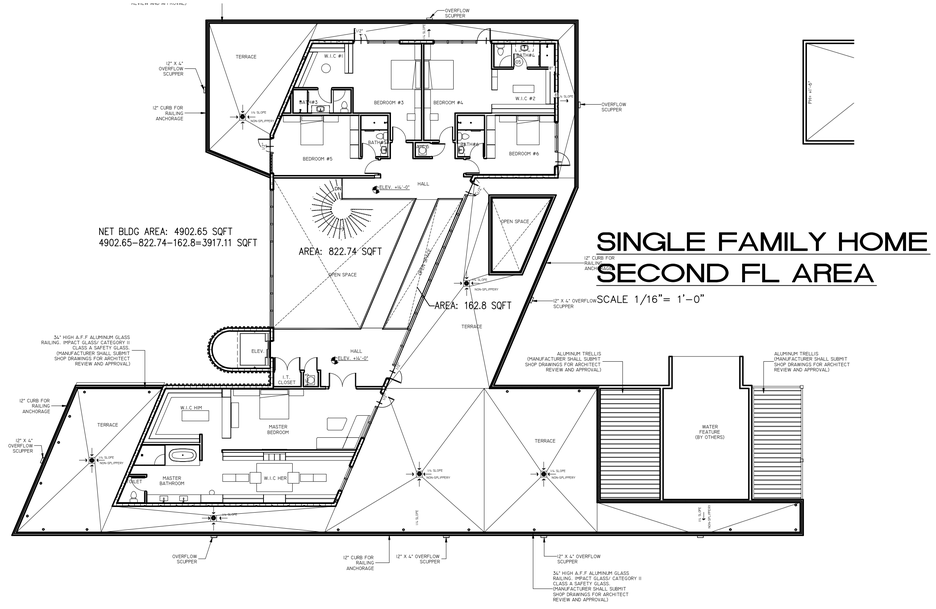
Date: 2024.04.22 23:14:31 -04'00'



SINGLE FAMILY HOME SECOND FL AREA

SCALE 1/16"= 1'-0"

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STATE OF FLORIDA
PROFESSIONAL ENGINEER

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BLDGS AREA
REFER ONLY

NEW SINGLE FAMILY HOME
11041 SW 77 AVE, PINECREST, FL 33156

REVISION		
No.	DESCRIPTION	DATE:

JOB No. 123-2023

SITE PLAN

DATE: 11/13/2023

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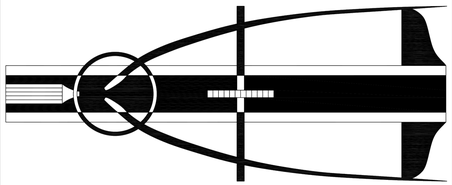
norweco®

SINGULAIR® BIO-KINETIC®
WASTEWATER TREATMENT SYSTEM MODEL 960

SPECIFICATIONS

GENERAL SPECIFICATIONS

The contractor shall furnish and install one complete Singulair Bio-Kinetic wastewater treatment system with all necessary parts and equipment as described in the following specifications. Treatment of the domestic wastewater shall be accomplished by the extended aeration process with non-mechanical flow equalization, pretreatment of the influent and filtration of the final effluent. The treatment system shall provide primary, secondary and tertiary treatment of the wastewater flow, and if required, chlorination and dechlorination of the effluent prior to discharge. All treatment processes shall be contained within reinforced precast concrete tankage meeting the requirements of ACI Standard 318. The wastewater treatment system shall be a Singulair Model 960 as manufactured by Norweco, Inc., Norwalk, Ohio, USA.



The wastewater treatment system shall include precast concrete tankage providing separate pretreatment, aeration and final clarification chambers. The tankage shall be furnished with cast-in-place inlets, submerged transfer ports, aerator mounting casting with removable cover, cast-in-place molded plastic vent assembly, cast-in-place outlet coupling and Bio-Kinetic system mounting casting with removable cover. Principal items of electro-mechanical equipment supplied with the Singulair system shall be a 1725 RPM mechanical aerator, UL Listed Service Pro electrical control center with MCD technology, Bio-Static sludge return and Bio-Kinetic tertiary treatment device for flow equalization and final filtration of system effluent.

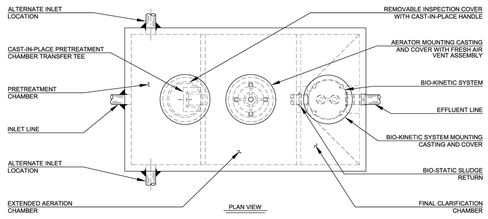
SINGULAIR®

OPERATING CONDITIONS

Total holding capacity of the system shall provide a minimum of 48 hour retention of the daily flow. The pretreatment chamber shall provide at least 18 hour retention, the extended aeration chamber shall provide at least 24 hour retention and the clarification chamber shall provide at least 6 hour retention. The non-mechanical flow equalization device shall increase each individual chamber and total system retention time in direct proportion to loading. Design of the system shall include a compartmented tank and non-mechanical flow equalization device to insure successful treatment performance without upset even when the significant runoff period is six hours. Hydraulic design considerations of the system and flow equalization device shall be such that intermittent peak flow factors as high as four shall not upset hydraulic reliability within the system. Capability of the system to perform as outlined, when built by an approved manufacturer, shall be certified by an independent testing laboratory and approved for use by the local governing regulatory agency.

PRETREATMENT CHAMBER

The pretreatment chamber shall be an integral part of the wastewater treatment system. All domestic wastewater shall be preconditioned and flow equalized while passing through the pretreatment chamber prior to being introduced to the extended aeration chamber. The outlet of the pretreatment chamber shall be equipped with a discharge tee that extends vertically into the liquid so that only the preconditioned equalized flow from the center area of the chamber is displaced to the extended aeration chamber. The discharge tee and transfer port shall be of adequate size to handle a peak flow factor of four without restricting the outlet and disturbing hydraulic displacement to the extended aeration chamber. A removable inspection cover shall be cast into the top of the pretreatment chamber to allow tank and transfer tee inspection. As a safety measure, the uncovered opening shall be small enough to insure that the tank cannot be entered for inspection or service.



AERATION CHAMBER

The extended aeration chamber shall provide in excess of 24 hour retention of the equalized daily flow. The chamber shall be of sufficient size to provide a minimum of 80 cubic feet of tank capacity per pound of applied BOD. The aeration chamber length-width-depth ratio shall be designed to insure uniform tank mixing and provide optimum treatment. The aeration chamber(s) shall be an integral part of the system flow path and constructed of properly reinforced 5,000 PSI, 28 day compression strength precast concrete. All castings used to construct the precast concrete tankage shall be monolithic units with external and internal walls incorporated into each section.

EXECUTIVE SUMMARY

Testing of the Norweco Singulair Model TNT-500 was conducted under the provisions of NSF/ANSI Standard 245 for Wastewater Treatment Systems – Nitrogen Reduction (March 2007). NSF/ANSI Standard 245 was developed by the NSF Joint Committee on Wastewater Technology.

The performance evaluation was conducted at the NSF Wastewater Technology Test Facility located in Waco, Texas using predominantly residential wastewater diverted from the Waco municipal wastewater collection system. The evaluation consisted of sixteen weeks of dosing at design flow, seven and one half weeks of stress testing, and two and one half weeks of dosing at design flow. Dosing was initiated on June 27, 2005. After a three-week start up period, sample and data collection for the test was officially started on July 18, 2005. Sampling started in the summer and continued into the winter, covering a range of operating temperatures.

Over the course of the evaluation, the average influent Total Nitrogen was 38 mg/L, ranging between 15 and 58 mg/L. The Norweco Singulair Model TNT-500 produced an average effluent Total Nitrogen of 12 mg/L, which results in a 68% reduction in the influent Total Nitrogen.

The Norweco Singulair Model TNT-500 was previously certified as an NSF/ANSI Standard 40 Class I system, producing an average effluent $CBOD_5$ of 3 mg/L (ranging between <2 and 11 mg/L) and an average effluent total suspended solids was 8 mg/L (ranging between <2 mg/L and 48 mg/L). The effluent successfully met the performance requirements established by NSF/ANSI Standard 40 for Class I effluent.

The maximum 7-day arithmetic mean was 15 mg/L for $CBOD_5$ and 30 mg/L for total suspended solids, both below the allowed maximums of 40 and 45 mg/L respectively. The maximum 30-day arithmetic mean was 7 mg/L for $CBOD_5$ and 17 mg/L for total suspended solids, both below the allowed maximums of 25 mg/L and 30 mg/L respectively. The effluent pH during the entire evaluation ranged between, 6.3 and 7.4, within the required range of 6.0 to 9.0. The Model TNT-500 met the requirements for noise levels (less than 60 dbA at a distance of 20 feet), color, threshold odor, oily film and foam.

Over the course of the Standard 245 evaluation the influent averaged 240 mg/L BOD_5, 270 mg/L TSS, 38 mg/L Total Nitrogen, 310 mg/L alkalinity, 28 °C and a median pH of 6.7, meeting the requirements of the Standard. The effluent averages over the course of the test were 3 mg/L $CBOD_5$, 8 mg/L TSS and 12 mg/L Total Nitrogen, representing a 68% reduction, and the effluent pH ranged between 6.3 and 7.4 SU. The effluent values met the requirements of the Standard.

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16438 S.W. 85Ln, Miami, Florida 33193
Phone:(786)564–4040

ERNESTO SANTANA, P.E LEED @AP LIC. # 60788

Digitally signed by Ernesto Santana
Date: 2023.12.05 23:52:39 -05'00'

ERNESTO SANTANA LICENSE No. 60788 STATE OF FLORIDA PROFESSIONAL ENGINEER

SEAL:

THIS ITEM HAS BEEN DIGITALLY SIGN AND SEALED BY ERNESTO SANTANA P.E. LIC.:60788 ON PRINTED COPIES OF THIS DOCUMENT ARE NOT CONSIDERED SIGNED AND SEALED AND THE SIGNATURE MUST BE VERIFIED ON ANY ELECTRONIC COPIES.

SITE PLAN ONSITE
SEWAGE TREATMENT
SPECIFICATION

NEW SINGLE FAMILY HOME
11041 SW 77 AVE, PINECREST, FL 33156

	REVISION	
No.	DESCRIPTION	DATE:

JOB No. 123–2023

SITE PLAN

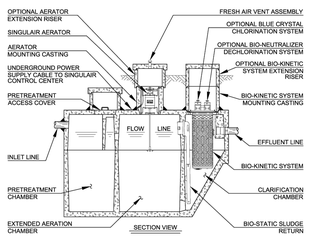
DATE: 11/13/2023

SP-3.00

5 OF 5

FINAL CLARIFICATION CHAMBER

The final clarification chamber shall consist of 5 functionally independent zones operating together to provide satisfactory settling and clarification of the equalized flow. An inlet zone shall be provided and shall dissipate transfer turbulence at the flow inlet of the clarification chamber. Its performance shall also eliminate turbulence in other zones of the clarifier. Liquid shall be hydraulically displaced from the inlet zone to the sludge return zone. Hydraulic currents shall sweep settled sludge from the hoppered walls and return these solids via the inlet zone to the aeration chamber. As solids are removed, liquid is displaced to the hopper zone of the clarifier. In this zone, settling by gravity takes place. Three of the four sidewalls are slanted to form a hopper which directs all settled material back to the sludge return zone. Clarified liquid from the hopper zone shall be displaced into the final settling zone to provide additional clarification of the liquid. The liquid is finally displaced to the outlet zone for final filtration and discharge from the system. Non-mechanical equalization of the flow, through all 5 independent zones, shall provide optimal settling and clarification.

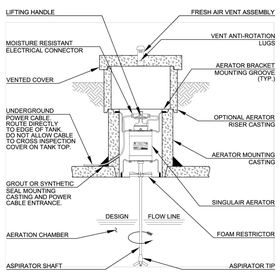


BIO-STATIC® SLUDGE RETURN

A Bio-Static sludge return shall be installed into the cast-in-place opening(s) in the aeration/clarification chamber wall to provide positive return of settled solids. Aeration chamber hydraulic currents shall enter the sludge return(s) and be directed into the sludge return zone of the clarification chamber. The Bio-Static sludge return shall accomplish resuspension and return of settled solids without disturbing the clarified liquid in the final settling zone and outlet zone.

MECHANICAL AERATOR

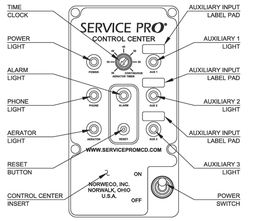
Each Singulair aerator shall be installed in a concrete aerator mounting casting above the aeration chamber. Fresh air shall be supplied through a molded plastic vent assembly cast into the concrete access cover above the aerator. The Singulair aerator shall include plated mounting brackets, NEMA 6 rated electrical connector, UL recognized fractional horsepower motor, molded plastic lifting handle, molded plastic air intake screens, molded plastic foam restrictor, stainless steel aspirator shaft and molded glass-filled nylon aspirator tip. The motor shall contain precision manufactured o-ring type seals installed between the motor shell and the machined aluminum endbells to insure watertight integrity is maintained. Molded Viton elastomer shaft seals shall be utilized to protect the bearings from contamination. Only the stainless steel aspirator shaft and glass-filled nylon aspirator tip shall be installed in contact with the liquid. There shall be no submerged electrical motors, bearings or fixed air piping in the aeration system. Singulair aerator motors shall be designed not to exceed the motor nameplate rating when installed and operated as recommended for the system. The fractional horsepower aerator motor shall be equipped with a foam restrictor to protect the motor against high water and foam. The motor shall be 4 pole, 1725 RPM, 115 volt, 60 Hertz, single phase, ball bearing constructed with a 1.0 service factor. It shall draw less than 4.0 amps when operating at the rated nameplate voltage. Aerator motors without UL recognition have not demonstrated compliance with international electrical standards for safety and reliability and shall not be considered for this application.



BIO-KINETIC®

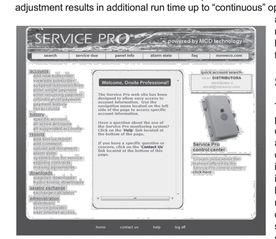
SERVICE PRO® ELECTRICAL CONTROL CENTER

The Service Pro electrical control center with MCD technology shall provide Monitoring, Compliance and Diagnostic functions for the Singulair treatment plant using a microprocessor based platform. The Service Pro control center shall contain nonvolatile memory to prevent loss of programming in the event of a power failure. The pre-wired controls shall be mounted in a lockable NEMA rated enclosure designed specifically for outdoor use. Each Service Pro control center shall be a UL Listed assembly and shall include a time clock, alarm light, reset button, power switch, power light, phone light, aerator alarm light and three auxiliary alarm lights. The control center shall monitor all treatment system operating conditions including aerator over current, aerator under current and open motor circuit. In the event the control center detects one of these conditions, power to the aerator shall be interrupted, a diagnostic sequence shall begin and the visual alarm shall activate. After a programmed recovery interval, an automatic restart attempt shall be initiated. If normal aerator operation does not resume during 24 programmed recovery and restart cycles, the audible alarm shall activate and the telemetry system shall report the specific condition to the Service Pro monitoring center. In the event that any of the auxiliary inputs detect abnormal operation of the treatment system auxiliary equipment, the audible and visual alarms shall immediately activate and the telemetry system shall report the alarm condition to the monitoring center. The service provider shall automatically be notified by the Service Pro monitoring center of the specific alarm condition using phone, fax or email.



TIME CLOCK

The aerator run cycle shall be controlled by an adjustable, pre-wired time clock. The minimum setting shall not permit the aerator to be "off" for more than 30 minutes per hour. It shall be adjustable in 5 minute increments and designed such that any adjustment results in additional run time up to "continuous" operation (60 minutes per hour). Use of a time clock can seriously affect system performance and operating cost. Systems that have not been performance certified at the minimum time clock setting by an independent testing laboratory shall not be considered for this application.



www.servicepromcd.com

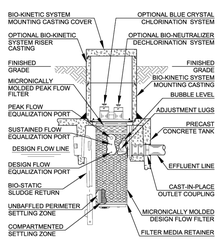
SERVICE PRO® MONITORING CENTER

The Service Pro monitoring center shall include a 256 bit encrypted password protected website for interface with the monitoring center database. Access to the secure website shall be obtained through a unique user name and password that provides tiered access to data from monitored treatment systems. Access level tiers shall include distributors, service providers, regulatory agencies and individual system owners. Distributors and service providers shall be able to create accounts, maintain service records and grant regulatory agencies access to the information. Individual system owners shall be able to view information regarding their own systems, as well as download instructional information. Integrity of stored data shall be maintained through the use of multiple servers operating in geographically isolated locations.

SPECIFICATIONS

BIO-KINETIC® SYSTEM

A Bio-Kinetic system shall be installed in the mounting casting(s) above the clarification chamber. Each Bio-Kinetic system shall provide non-mechanical flow equalization through all plant processes including pretreatment, aeration, clarification, tertiary filtration, chlorination and dechlorination. The assembly shall be supplied with locking lugs and removable moisture/vapor shield and shall consist of a design flow and peak flow micronically molded filter, baffled perimeter settling zone, flow distribution deck, lifting handles, level indicator, adjustment lugs, optional chlorination feed tube, unbaffled perimeter settling zone, solids contact zone, vertical inlet zone, compartmented settling zone consisting of 42 baffled chamber plates, effluent stilling well, final discharge zone, adjustable outlet weir, optional dechlorination feed tube, outlet zone and gasketed discharge flange. All components shall be manufactured from inert synthetic materials or rubber, assembled in circular fashion and connected to a plastic outlet coupling. The outlet coupling shall accept a 4" diameter, Schedule 40, PVC pipe. Each Bio-Kinetic system shall be installed with the inverts of the design flow equalization ports located at the normal liquid level of the clarifier. If intermittent flow rates exceed the capacity of the design flow ports, flow shall be held upstream until the intermittent flow dissipates. If the intermittent flow continues to increase, the liquid level may reach a pair of sustained flow equalization ports. With four ports in use, flow through the system increases while continuing to provide flow equalization to all upstream and downstream processes. Peak flow equalization ports are supplied but should not be required in a properly sized system. Optional Blue Crystal and Bio-Neutralizer tablet feed tubes shall be positioned such that the flow-activated chemical cannot make contact with the liquid upstream of the feed tubes.



FLOW EQUALIZATION

The wastewater treatment system shall include a non-mechanical, demand use, flow equalization device. The device shall control normal residential flow rates and reduce typical residential flow surges. The flow equalization rate shall be dependent upon the specific loading pattern and the duration of flow surges. At the 600 gallon per day NSF Standard 40 design loading schedule, minimum performance of the device shall equalize daily flow an average of 50%.

BLUE CRYSTAL® CHLORINATION SYSTEM (Optional)

The Singulair system shall be furnished complete with a tablet feeder and a six month supply of Blue Crystal disinfecting tablets. Blue Crystal tablets shall be specifically formulated for consistent chlorine dosage and effluent disinfection to the sustained, variable and intermittent flows that are typical of domestic wastewater treatment systems. The tablets shall be manufactured from pure calcium hypochlorite and contain a minimum of 70% available chlorine. Each tablet shall be 2 5/8" diameter, compressed to a 1" thickness, weigh approximately 5 ounces and be white in color with blue crystals for easy identification. The tablets shall dissolve in direct proportion to the flow rate, releasing controlled amounts of chlorine.

BIO-NEUTRALIZER® DECHLORINATION SYSTEM (Optional)

The Singulair system shall be furnished complete with a tablet feeder and a six month supply of Bio-Neutralizer dechlorination tablets. The dechlorination tablets shall contain active ingredients specially formulated to chemically neutralize both free and combined chlorine. Each tablet shall be 2 5/8" diameter, compressed to a 13/16" thickness, weigh approximately 5 ounces and be green in color for easy identification. The tablets shall dissolve slowly, releasing controlled amounts of chemical for the instantaneous removal of residual chlorine from the system effluent.

WARRANTY AND EXCHANGE PROGRAM

The manufacturer shall provide a three year limited warranty for each Singulair aerator, Service Pro control center and Bio-Kinetic system purchased from the manufacturer. A comprehensive exchange program offers Singulair owners a lifetime of equipment protection. The distributor shall provide warranty and exchange program details to the regulatory agency, contractor and customer as required.

norweco Lifetime 3 Year Limited Warranty | Lifetime Exchange Program

EQUIPMENT MANUFACTURER

The equipment specified herein shall be the product of a manufacturer having a minimum of seven years experience in the construction of prefabricated wastewater treatment equipment and systems. Bids shall be prepared on the basis of the equipment and material specified herein for purposes of determining the low bid. This is not done, however, to eliminate other products or equipment of equal quality and efficiency. If equipment is to be substituted, approval of such substitution must be made prior to execution of any order. It is assumed that substitution will result in a reduction of cost to the contractor and that if accepted, these savings will be passed along by a reduction in the base bid.

SINGULAIR® MODEL 960 DATA CHART

Designation: Model 960-	500 GPD	750 GPD	1000 GPD	1250 GPD	1500 GPD
Daily Treatment Capacity (Gallons Per Day)	500/600	750/800	1000	1250	1500
Total System Capacity (Gallons)	1300	1600	2300	2850	3400
Number of Singulair Aerators	1	1	2	2	2
Number of Bio-Kinetic Systems	1	2	2	3	3
Number of Bio-Static Sludge Returns	1	1	1	2	2
Drawing Number (PC-5-)	7006	7007	7008	7009	7010

PROGRESS THROUGH SERVICE SINCE 1906

norweco® Engineering the future of water and wastewater treatment

DISTRIBUTED LOCALLY BY:

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NORWALK, OHIO, U.S.A. 44857
TELEPHONE (419) 668-4471
FAX (419) 663-5440
www.norweco.com

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Miami Dade County Department of Regulatory and Economic Resources - Job Copy
2023021890 - 7/9/2024 11:49:47 AM
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Examiner Date Time Stamp Trade Stamp Name
FLORES, ANA 3/1/2024 9:02:55 AM HRS Approved

MAP OF SURVEY

SHEET 1/1

PROPERTY ADDRESS:
11041 SW 77th AVENUE PINECREST FL. 33156

FLOOD ZONE INFORMATION:
COMMUNITY NO. **120425** PANEL NO. **0462** SUFFIX: **L**
FIRM DATE: **09-11-2009** FLOOD ZONE: **X**

LEGAL DESCRIPTION:
The North ½, of the West ½, of the Southwest ¼, of the Southwest ¼, of the Northwest ¼, less the North 155 feet, **and** the North ½, of the West 66 Feet, of the East ½, of the Southwest ¼, of the Southwest ¼, of the Northwest ¼, less the North 155 feet thereof, Section 11, Township 55 South, Range 40 East, and less the West 35 feet thereof, for road purposes lying and being in Miami-Dade County, Florida.

SURVEYOR'S NOTES:
LEGAL DESCRIPTION WAS FURNISHED BY THE CLIENT.

LEGAL DESCRIPTION SUBJECT TO ANY DEDICATIONS, LIMITATIONS, RESTRICTIONS, RESERVATIONS OR RECORDED EASEMENTS.

THERE MAY BE LEGAL RESTRICTIONS ON THE SUBJECT PROPERTY THAT ARE NOT SHOWN ON THE MAP OF SURVEY THAT MAY BE FOUND IN THE PUBLIC RECORDS OF MIAMI-DADE COUNTY, OR THE RECORDS OF ANY OTHER PUBLIC AND PRIVATE ENTITIES AS THEIR JURISDICTIONS MAY APPEAR.

THIS SURVEY WAS CONDUCTED FOR THE PURPOSE OF A **BOUNDARY SURVEY** ONLY

WELL-IDENTIFIED FEATURES AS DEPICTED ON THIS SURVEY AND MAP WERE MEASURED TO AN ESTIMATED HORIZONTAL AND VERTICAL POSITIONAL ACCURACY OF 1/10 FOOT UNLESS OTHERWISE SHOWN.

THE MAP OF SURVEY IS INTENDED TO BE DISPLAYED AT THE STATED GRAPHIC SCALE IN ENGLISH UNITS OF MEASUREMENT. ATTENTION IS BROUGHT TO THE FACT THAT SAID DRAWING MAY BE ALTERED IN SCALE BY THE REPRODUCTION PROCESS

ALL MEASUREMENTS SHOWN ARE IN THE UNITED STATES STANDARD FEET SHOWN ELEVATIONS ARE REFERRED TO N.G.V.D. OF 1929.

THE SURVEYOR MAKES NO REPRESENTATION AS TO OWNERSHIP, POSSESSION OR OCCUPATION OF THE SUBJECT PROPERTY BY ANY ENTITY OR INDIVIDUAL.

SUBSURFACE IMPROVEMENTS AND/OR ENCROACHMENTS WITHIN, UPON, ACROSS, ABUTTING OR ADJACENT TO THE SUBJECT PROPERTY WERE NOT LOCATED AND ARE NOT SHOWN.

NOT VALID WITHOUT THE ELECTRONIC SIGNATURE AND DIGITAL SEAL AND /OR THE SIGNATURE AND ORIGINAL RAISED SEAL OF A FLORIDA LICENSED SURVEYOR AND MAPPER. ADDITIONS AND DELETIONS TO THIS MAP OF SURVEY BY OTHER THAN THE SIGNING PARTY ARE PROHIBITED WITHOUT THE WRITTEN CONSENT OF THE SIGNING PARTY.

THIS MAP OF SURVEY HAS BEEN PREPARED FOR THE EXCLUSIVE USE OF THE ENTITIES NAMED HEREIN AND THE CERTIFICATION DOES NOT EXTEND TO ANY UNNAMED PARTY.

CERTIFY TO:
PAOLO FIDANZA AND MILENA DORIA

SURVEYOR'S CERTIFICATION:
IN MY PROFESSIONAL OPINION, THIS "**BOUNDARY SURVEY**", MEETS THE STANDARDS OF PRACTICE AS SET FORTH BY THE FLORIDA BOARD OF PROFESSIONAL SURVEYORS AND MAPPERS IN CHAPTER 5J-17.05 FLORIDA ADMINISTRATIVE CODE, PURSUANT TO SECTION 472.027, FLORIDA STATUTES. AND, IT IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

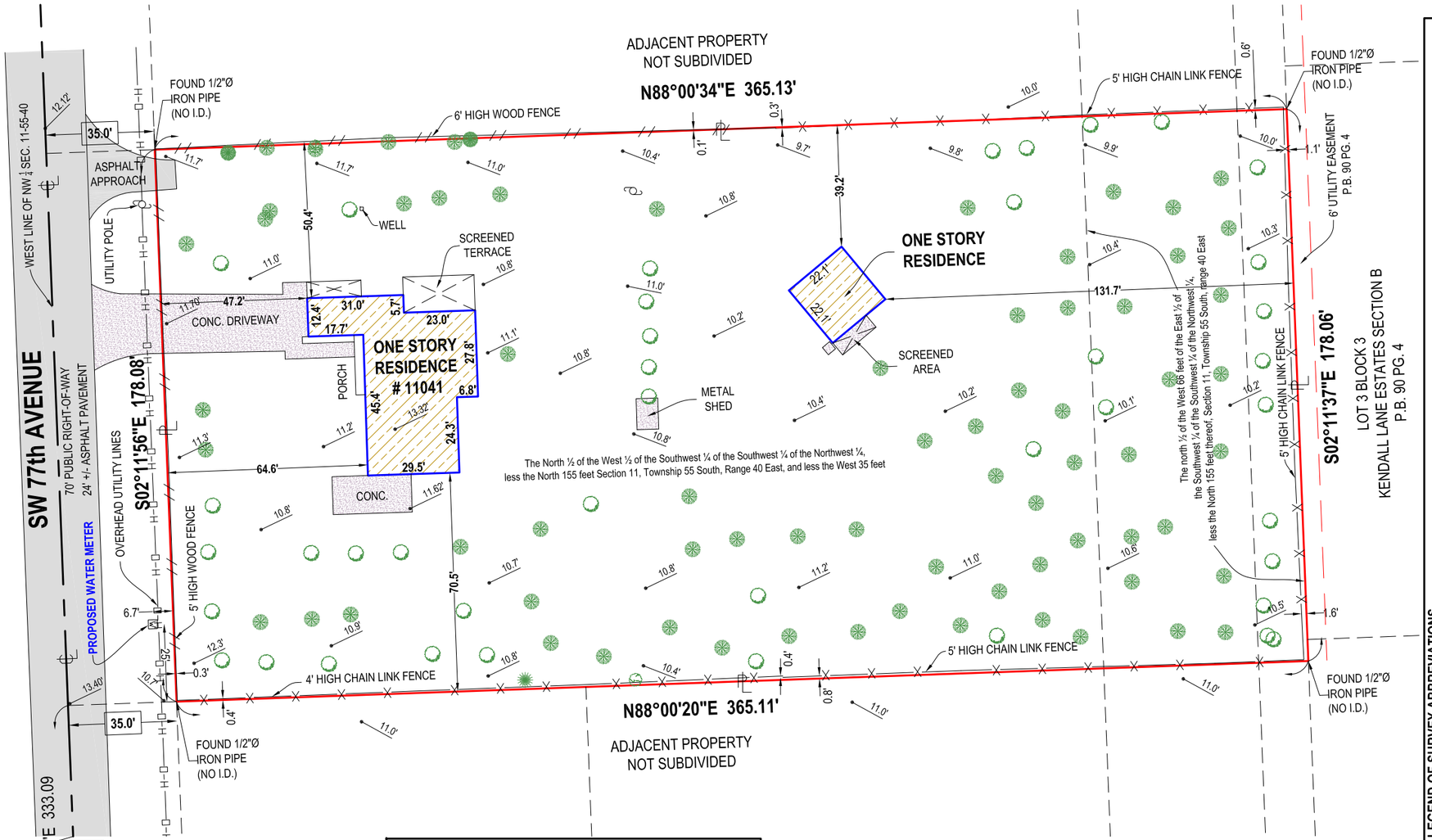
360° SURVEYING AND MAPPING, LLC
FLORIDA CERTIFICATE OF AUTHORIZATION NO. LB 6356

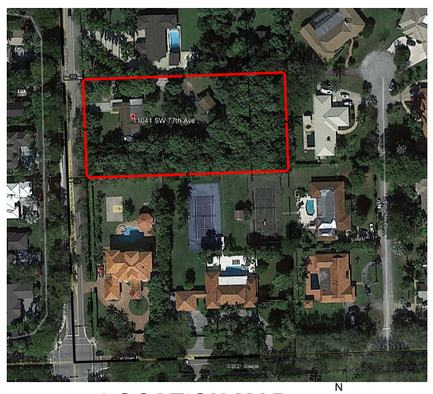
Oscar E Baez
Digitally signed by Oscar E Baez
Date: 2023.11.07 13:29:21 -05'00'

OSCAR E. BAEZ-CUSIDO, P.L.S.
REGISTERED SURVEYOR AND MAPPER NO.
STATE OF FLORIDA.

OSCAR E. BAEZ-CUSIDO LICENSE NO. LS 5034 STATE OF FLORIDA REGISTERED LAND SURVEYOR

Miami-Dade County Department of Regulatory and Economic Resources - Job Copy
20230218900 7/9/2024 11:49:47 AM
SURVEY WITH ELEVATIONS.pdf





LOCATION MAP
(NOT TO SCALE)

= OAK TREE Ø= 1.2' +/- C= 20' +/- H= 30' +/-

= MANGO TREE Ø= 1.2'-2.5' C= 20'-30' H = 25'-40'

= AVOCADO TREE Ø= 1.2'-2.5' C= 20'-30' H = 25'-40'

= PALM TREE Ø= 1.5' C= 15' H = 30'

N

SCALE: 1" = 40'

LEGEND OF SURVEY ABBREVIATIONS

A = ARC LENGTH	CLP = CONC. LIGHT POLE	MH = MAN HOLE	P/L = PROPERTY LINE
A/C = AIR CONDITIONING PAD	CONC. = CONCRETE	(M) = MEASURED	(R) = RECORDED
Alum.F = ALUMINUM FENCE	(E) = ELECTRIC HOLE	M/L = MONUMENT LINE	R = RADIUS
B/C = BACK OF CURB	E.S.B. = ELECTRIC SERVICE BOX	N.G.V.D. = NATIONAL GEODETIC VERTICAL DATUM	RAD. = RADIAL
BLDG = BLOCK CORNER	EM = ELECTRIC METER (CAN)	N.T.S. = NOT TO SCALE	RES. = RESIDENCE
C.B. = CATCH BASIN	F.D.H.= FOUND DRILL HOLE	O/E = OVERHEAD ELECTRIC LINES	R/W = RIGHT OF WAY
C.B.S.= CONCRETE BLOCK STRUCTURE	F.H. = FIRE HYDRANT	P.B. = PLAT BOOK	S.M.H. = SEWER MANHOLE
CH. = CHORD DISTANCE	F.I.P. = FOUND IRON PIPE	P.C.P. = PERMANENT CONTROL POINT	SEC. = SECTION
CL = CLEAR	F.R. = FOUND REBAR	P.E. = POOL EQUIPMENT	S.I.P. = SET IRON PIPE No
C/L = CENTER LINE	F.N.D. = FOUND NAIL	P.O.B. = POINT OF BEGINNING	S.B.L. = SET BACK LINE
CLF = CHAIN LINK FENCE	G = GAS METER	PKWY. = PARKWAY	STY. = STORY
	L.P. = LIGHT POLE	P.R.M. = PERMANENT REFERENCE MONUMENT	

ELEVATIONS × 12.69

TILES | BRICK | ASPHALT | BLDG. | CONC. | WALL

MW - GAS MONITRING WELL
MH - STORM DRAIN MANHOLE
UP - WOOD UTILITY POLE
CUP - CONC. UTILITY POLE
CB - CATCH BASIN

SWK. = SIDEWALK
T = TELEPHONE SERVICE BOX
TV = TV CABLE SERVICE BOX
U.D.E. = UTILITY DRAINAGE EASEMENT
U.E. = UTILITY EASEMENT
U.M.E. = UTILITY & MAINTENANCE EASEMENT
U.P. = UTILITY POLE
W = WATER WELL
W.M. = WATER METER

REVISIONS AND/OR UP-DATES
10-01-2021 ADD TREES & ELEVATIONS
11-07-2023 ADD PROPOSED WATER METER

360° SURVEYING AND MAPPING, LLC
Land Surveyors - Land Planners
2935 S.W. 82nd Avenue MIAMI, FLORIDA 33155
PHONE: (305) 265-1002

ORIGINAL FIELD DATE 06-17-2021

JOB NO. **2106-0069B**

MAP OF SURVEY

SHEET 1/1

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FIRM DATE: **09-11-2009** FLOOD ZONE: **X**

LEGAL DESCRIPTION:
The North ½, of the West ½, of the Southwest ¼, of the Southwest ¼, of the Northwest ¼, less the North 155 feet, **and** the North ½, of the West 66 Feet, of the East ½, of the Southwest ¼, of the Southwest ¼, of the Northwest ¼, less the North 155 feet thereof, Section 11, Township 55 South, Range 40 East, and less the West 35 feet thereof, for road purposes lying and being in Miami-Dade County, Florida.

SURVEYOR'S NOTES:
LEGAL DESCRIPTION WAS FURNISHED BY THE CLIENT.

LEGAL DESCRIPTION SUBJECT TO ANY DEDICATIONS, LIMITATIONS, RESTRICTIONS, RESERVATIONS OR RECORDED EASEMENTS.

THERE MAY BE LEGAL RESTRICTIONS ON THE SUBJECT PROPERTY THAT ARE NOT SHOWN ON THE MAP OF SURVEY THAT MAY BE FOUND IN THE PUBLIC RECORDS OF MIAMI-DADE COUNTY, OR THE RECORDS OF ANY OTHER PUBLIC AND PRIVATE ENTITIES AS THEIR JURISDICTIONS MAY APPEAR.

THIS SURVEY WAS CONDUCTED FOR THE PURPOSE OF A **BOUNDARY SURVEY** ONLY

WELL-IDENTIFIED FEATURES AS DEPICTED ON THIS SURVEY AND MAP WERE MEASURED TO AN ESTIMATED HORIZONTAL AND VERTICAL POSITIONAL ACCURACY OF 1/10 FOOT UNLESS OTHERWISE SHOWN.

THE MAP OF SURVEY IS INTENDED TO BE DISPLAYED AT THE STATED GRAPHIC SCALE IN ENGLISH UNITS OF MEASUREMENT. ATTENTION IS BROUGHT TO THE FACT THAT SAID DRAWING MAY BE ALTERED IN SCALE BY THE REPRODUCTION PROCESS

ALL MEASUREMENTS SHOWN ARE IN THE UNITED STATES STANDARD FEET SHOWN ELEVATIONS ARE REFERRED TO N.G.V.D. OF 1929.

THE SURVEYOR MAKES NO REPRESENTATION AS TO OWNERSHIP, POSSESSION OR OCCUPATION OF THE SUBJECT PROPERTY BY ANY ENTITY OR INDIVIDUAL.

SUBSURFACE IMPROVEMENTS AND/OR ENCROACHMENTS WITHIN, UPON, ACROSS, ABUTTING OR ADJACENT TO THE SUBJECT PROPERTY WERE NOT LOCATED AND ARE NOT SHOWN.

NOT VALID WITHOUT THE ELECTRONIC SIGNATURE AND DIGITAL SEAL AND /OR THE SIGNATURE AND ORIGINAL RAISED SEAL OF A FLORIDA LICENSED SURVEYOR AND MAPPER. ADDITIONS AND DELETIONS TO THIS MAP OF SURVEY BY OTHER THAN THE SIGNING PARTY ARE PROHIBITED WITHOUT THE WRITTEN CONSENT OF THE SIGNING PARTY.

THIS MAP OF SURVEY HAS BEEN PREPARED FOR THE EXCLUSIVE USE OF THE ENTITIES NAMED HEREIN AND THE CERTIFICATION DOES NOT EXTEND TO ANY UNNAMED PARTY.

CERTIFY TO:
PAOLO FIDANZA AND MILENA DORIA

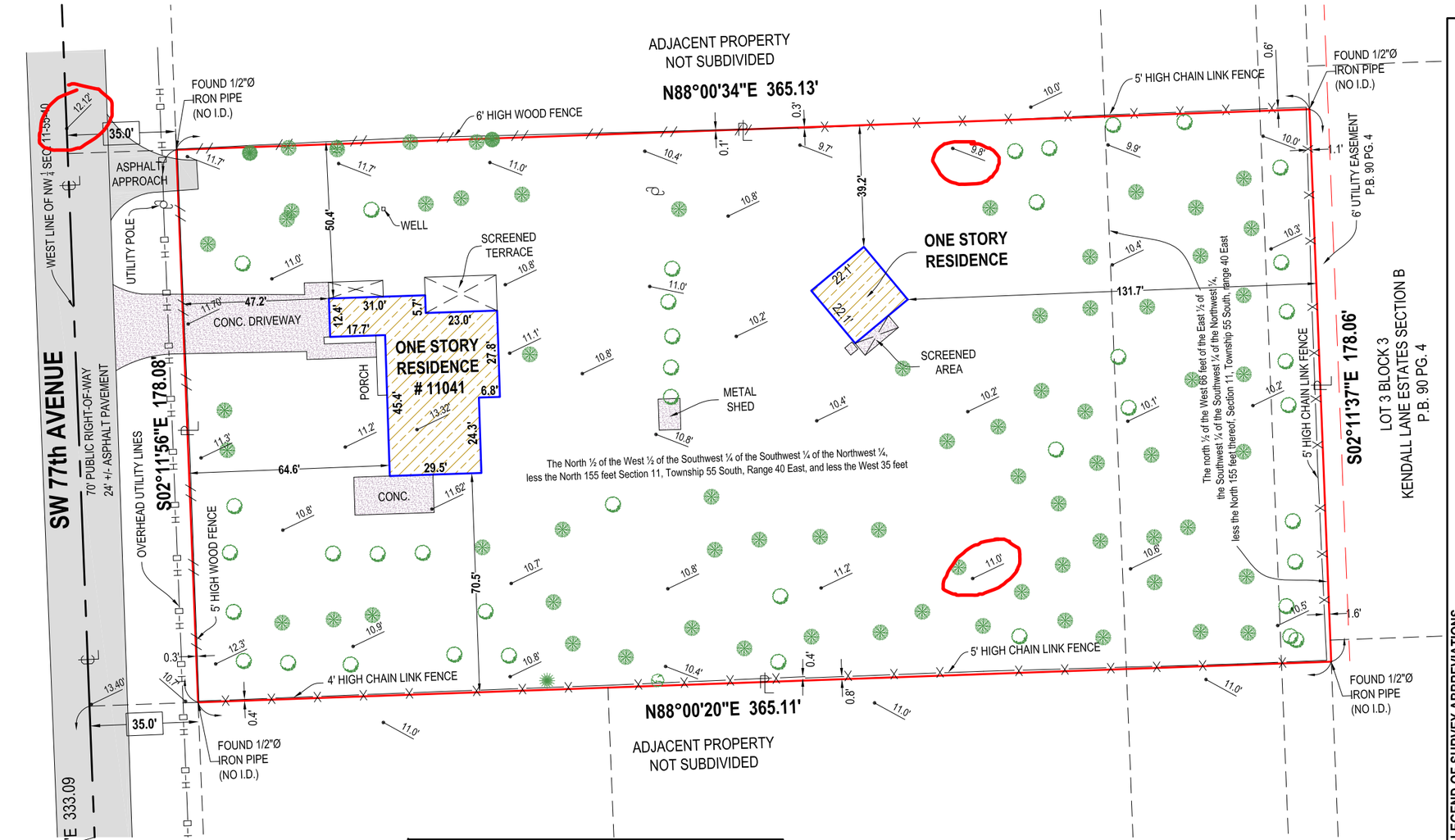
SURVEYOR'S CERTIFICATION:
IN MY PROFESSIONAL OPINION, THIS "**BOUNDARY SURVEY**", MEETS THE STANDARDS OF PRACTICE AS SET FORTH BY THE FLORIDA BOARD OF PROFESSIONAL SURVEYORS AND MAPPERS IN CHAPTER 5J-17.05 FLORIDA ADMINISTRATIVE CODE, PURSUANT TO SECTION 472.027, FLORIDA STATUTES. AND, IT IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

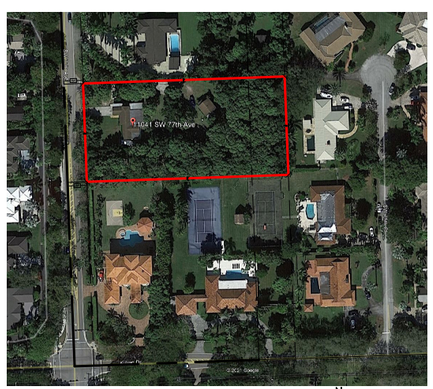
360° SURVEYING AND MAPPING, LLC
FLORIDA CERTIFICATE OF AUTHORIZATION NO. LB 6356

OSCAR E. BAEZ-CUSIDO, P.L.S.
REGISTERED SURVEYOR AND MAPPER NO. 5034
STATE OF FLORIDA

Oscar E Baez
Digitally signed by Oscar E Baez
Date: 2021.10.03 13:15:36 -04'00'

Miami Dade County Department of Regulatory and Economic Resources - Job Copy
20230218900 7/9/2024 11:49:47 AM
SURVEY.pdf
Examiner Date Time Stamp Trade Stamp Name
FLORES, ANA 3/1/2024 11:43:54 AM HRS Approved





LOCATION MAP
(NOT TO SCALE)

= OAK TREE Ø= 1.2' +/- C= 20' +/- H= 30' +/-

= MANGO TREE Ø= 1.2'-2.5' C= 20'-30' H = 25'-40'

= AVOCADO TREE Ø= 1.2'-2.5' C= 20'-30' H = 25'-40'

= PALM TREE Ø= 1.5' C= 15' H = 30'

N

SCALE: 1" = 40'

LEGEND OF SURVEY ABBREVIATIONS

A = ARC LENGTH	CLP = CONC. LIGHT POLE	MH = MAN HOLE	P/L = PROPERTY LINE	SWK. = SIDEWALK	MW - GAS MONITRING WELL
A/C = AIR CONDITIONING PAD	CONC. = CONCRETE	(M) = MEASURED	(R) = RECORDED	T = TELEPHONE SERVICE BOX	MH - STORM DRAIN MANHOLE
AlumF = ALUMINUM FENCE	(D) = ELECTRIC MANHOLE	M/L = MONUMENT LINE	R = RADIUS	TV = TV CABLE SERVICE BOX	
B/CBS = BLOCK	EM = ELECTRIC METER (CAN)	N.G.V.D. = NATIONAL GEODETIC VERTICAL DATUM	RAD. = RADIAL	U.D.E. = UTILITY DRAINAGE EASEMENT	
B/C = BLOCK CORNER	F.D.H.= FOUND DRILL HOLE	N.T.S. = NOT TO SCALE	RES. = RESIDENCE	U.E. = UTILITY EASEMENT	
C.B. = CATCH BASIN	F.H. = FIRE HYDRANT	OE = OVERHEAD ELECTRIC LINES	R/W = RIGHT OF WAY	U.M.E. = UTILITY & MAINTENANCE EASEMENT	UP - WOOD UTILITY POLE
C.B.S.= CONCRETE BLOCK STRUCTURE	F.I.P. = FOUND IRON PIPE	P.B. = PLAT BOOK	S/MH = SEWER MANHOLE	U.P. = UTILITY POLE	CUP - CONC. UTILITY POLE
CH. = CHORD DISTANCE	F.R. = FOUND REBAR	P.C.P. = PERMANENT CONTROL POINT	SEC. = SECTION	W = WATER METER	
CL = CLEAR	F.N.D. = FOUND NAIL	P.O.B. = POINT OF BEGINNING	S.I.P. = SET IRON PIPE No	W/M = WATER METER	CB - CATCH BASIN
C/L = CENTER LINE	G = GAS METER	PRKWY. = PARKWAY	S.M.L. = SET BACK LINE		
CLF = CHAIN LINK FENCE	L.P. = LIGHT POLE	P.R.M. = PERMANENT REFERENCE MONUMENT	STY. = STORY		

ELEVATIONS × 12.69
TILES BRICK ASPHALT BLDG. CONC. WALL

REVISIONS AND/OR UP-DATES	360° SURVEYING AND MAPPING, LLC	ORIGINAL FIELD DATE 06-17-2021
10-01-2021 ADD TREES & ELEVATIONS	Land Surveyors - Land Planners 2935 S.W. 82nd Avenue MIAMI, FLORIDA 33155 PHONE: (305) 265-1002	JOB NO. 2106-0069A

WELL FORM

DOH#_____

Chapter 62-6, F.A.C.:

A plan or plat of the lot or total site ownership drawn to scale, showing boundaries with dimensions, locations of any existing or proposed residences or buildings, swimming pools, recorded easements, the on-site sewage treatment and disposal system components and their location on the property, the slope of the property and any existing or proposed wells, potable and non-potable water lines, including valves, drainage features, filled areas, unobstructed areas, and surface water bodies. The site plan shall indicate the location of wells, on-site sewage treatment and disposal systems, surface waters and other pertinent facilities or features on contiguous or adjacent property. If the features are within 75 feet of the applicant lot, the estimated to the feature must also be shown but need not be drawn to scale. The location of any public drinking water well, as defined in Chapter 62-6(44)(b), within 200 feet of the applicant's lot shall also be shown, with the distance indicated from the system to the well, and the location of limited use public water system or other public wells, as defined in Chapter 62-6(44)(b), within 100 feet of the applicant lot must also be shown, or as defined in Chapter 62-6(44)(a), F.A.C., within 75 feet from a private potable water well (well used only by one or two residences).

Chapter 24-12(18), Miami-Dade County Code:

The minimum separation between a well or wells and possible sources of contamination shall be a function of the drawdown radius of influence of the well or wells. In no case shall the well be located less than one hundred (100) horizontal feet from any source of contamination.

I have read the above and to the best of my knowledge I have provided the Department with full information regarding pertinent facilities and features on all adjacent properties. Furthermore, I understand that any on-site sewage treatment and disposal system permit issued on the basis of said facilities and feature as provided by me and found to be incorrect will be subject to revocation in accordance with the provisions of Chapter 120, Florida Statutes.

Property Address: 11041 SW 77 AVE PINECREST, FL 33156

Date: 1/23/24 Signature: _____

Florida Department of Health
Division of Environmental Health and Engineering
Miami-Dade County
1725 NW 167th Street, Miami, FL 33056
PHONE: 786-364-6620 Email: hrsdehi@flhealth.gov
FloridaHealth.gov

Accredited Health Department
PHAB Public Health Accreditation Board

Miami Dade County Department of Regulatory and Economic Resources Job Copy
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