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

APPLICANT: Juan Alberto Mazzini EMAIL: westlandplumbingseptic@yahoo.com

AGENT: Westland Plumbing Corp TELEPHONE: 305-342-5767

MAILING ADDRESS: 101 W 24th St, Hialeah, FL 33010

==========

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: 10 BLOCK: 4 SUBDIVISION: Third Addn to Kendall East PLATTED: 1971

PROPERTY ID #: 20-5002-043-0100 ZONING: SFR I/M OR EQUIVALENT: [Y / N]

PROPERTY SIZE: .35 ACRES WATER SUPPLY: [ ] PRIVATE PUBLIC [✓]<=2000GPD [ ]>2000GPD

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

PROPERTY ADDRESS: 10300 SW 70 Ave, Pinecrest, FL 33156

DIRECTIONS TO PROPERTY: Take 828-S and merge onto Pinecrest Pkwy, left onto SW 104th St, left onto SW 70th Ave, destination is onthe left

BUILDING INFORMATION [✓] RESIDENTIAL [ ] COMMERCIAL

Unit No	Type of Establishment	No. of Bedrooms	Building Area Sqft	Commercial/Institutional System Design Table I, Chapter 62-6, FAC
1	Single Family Home	3	2,650 A/C	Existing system for addition of Den with
2	Addition		1,653 A/C	bathroom
3	Total	3	4,303 A/C	
4				

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

SIGNATURE: [signature] DATE: 03/14/2024

DEP 4015, 06-21-2022 (Stamp Trade Stamp Name which may not be used)
Incorporated 62-6.004, FAC

Miami Dade County Department of Regulatory and Economic Resources - Job Copy
2024008996 - 7/11/2024 6:23:24 PM
10300 SW 70 Ave Exisiting System.pdf
Examiner: Date Time Stamp Approved
TOLEDO, GABRIEL 3/21/2024 1:05:12 PM HRS

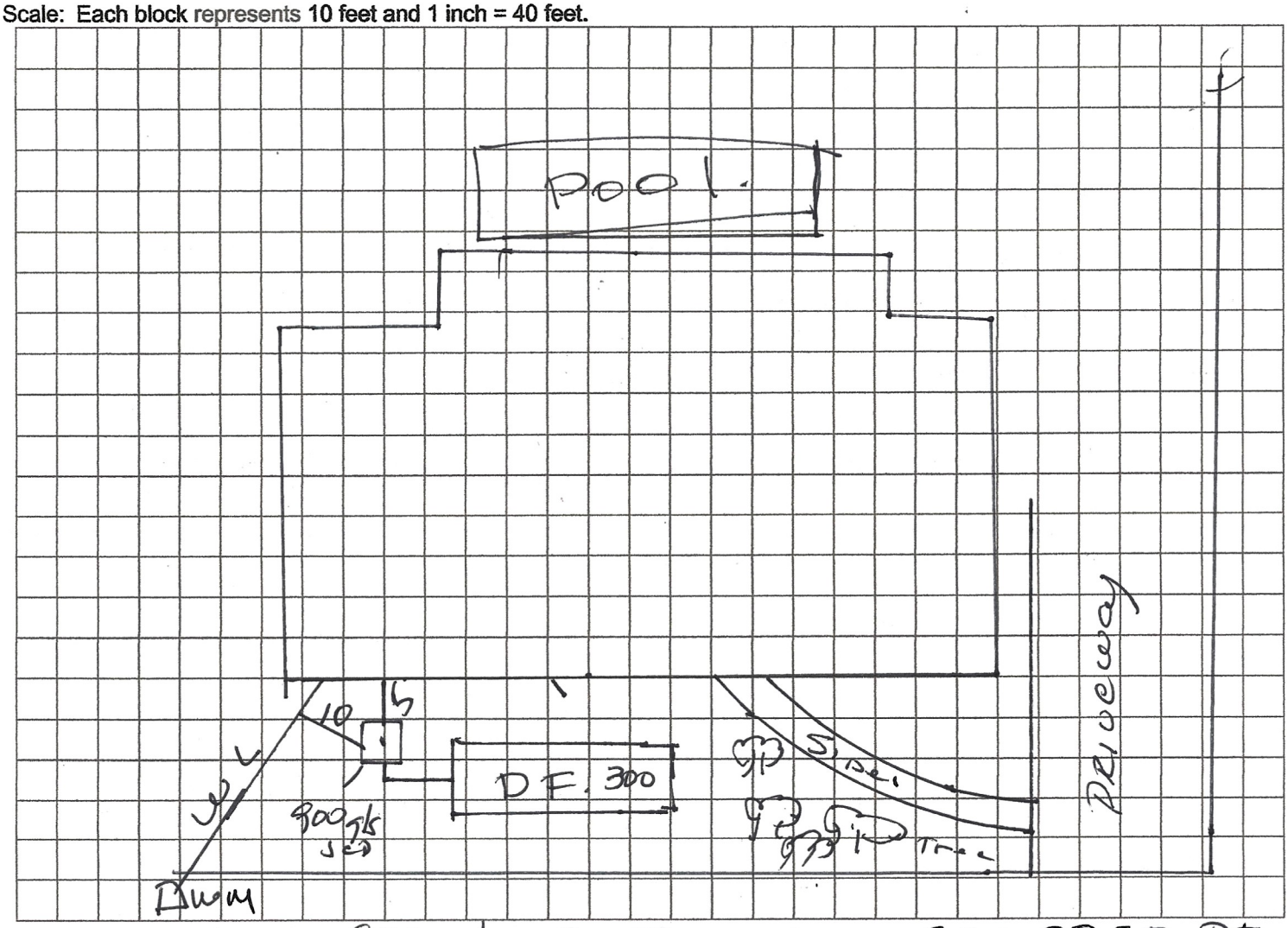
10300 SW 70 Ave.

STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
APPLICATION FOR CONSTRUCTION PERMIT

Permit Application Number_____

---------- PART II - SITEPLAN ----------

Scale: Each block represents 10 feet and 1 inch = 40 feet.



Notes: Existing 900 g/s Septic with 300 SQFT DF.

Existing system for addition of Den with bathroom

Site Plan submitted by: Carlos M. Cobos

Carlos M. Cobos

Plan Approved_____ Not Approved_____ Date 03/14/2024

By_____ County Health Department

ALL CHANGES MUST BE APPROVED BY THE COUNTY HEALTH DEPARTMENT

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STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
ONSITE SEWAGE TREATMENT AND DISPOSAL SYSTEM
EXISTING SYSTEM AND SYSTEM REPAIR EVALUATION

PERMIT # _____

APPLICANT: Juan Alberto Mazzini

CONTRACTOR / AGENT: Westland Plumbing Corp

LOT: 10 BLOCK: 4 SUBDIV: Third Addn to Kendall East ID#: 2050020430100

TO BE COMPLETED BY FLORIDA REGISTERED ENGINEER, DEPARTMENT EMPLOYEE, SEPTIC TANK CONTRACTOR OR OTHER CERTIFIED PERSON. SIGN AND SEAL ALL SUBMITTED DOCUMENTS. COMPLETE ALL APPLICABLE ITEMS. COMPLETE TANK CERTIFICATION BELOW OR NOTE IN REMARKS WHY THE TANKS CANNOT BE CERTIFIED.

EXISTING TANK INFORMATION

[900] GALLONS SEPTIC TANK/GPD ATU LEGEND: N/A MATERIAL: Concrete BAFFLED: [Y / N]
[ ] GALLONS SEPTIC TANK/GPD ATU LEGEND: _____ MATERIAL: _____ BAFFLED: [Y / N]
[ ] GALLONS GREASE INTERCEPTOR LEGEND: _____ MATERIAL: _____
[ ] GALLONS DOSING TANK LEGEND: _____ MATERIAL: _____ # PUMPS: [ ]

I CERTIFY THAT THE LISTED TANKS WERE PUMPED ON 03 /14 /24 BY Westland Plumbing Corp, HAVE THE VOLUMES SPECIFIED AS DETERMINED BY [DIMENSIONS / FILLING / LEGEND], ARE FREE OF OBSERVABLE DEFECTS OR LEAKS, AND HAVE A [SOLIDS DEFLECTION DEVICE / OUTLET FILTER DEVICE] INSTALLED.

SIGNATURE OF LICENSED CONTRACTOR | Westland Plumbing Corp (BUSINESS NAME) | 03/14/2024 (DATE)

EXISTING DRAINFIELD INFORMATION

[300] SQUARE FEET PRIMARY DRAINFIELD SYSTEM NO. OF TRENCHES [ ] DIMENSIONS: 15 x 20
[ ] SQUARE FEET _____ SYSTEM NO. OF TRENCHES [ ] DIMENSIONS: x
TYPE OF SYSTEM: [✓] STANDARD [ ] FILLED [ ] MOUND [ ] _____
CONFIGURATION: [ ] TRENCH [✓] BED [ ] _____
DESIGN: [ ] HEADER [✓] D-BOX [✓] GRAVITY SYSTEM [ ] DOSED SYSTEM
ELEVATION OF BOTTOM OF DRAINFIELD IN RELATION TO NATURAL GRADE 24 INCHES [ABOVE / BELOW]

SYSTEM FAILURE AND REPAIR INFORMATION

[1971] SYSTEM INSTALLATION DATE TYPE OF WASTE [✓] DOMESTIC [ ] COMMERCIAL
[300] GPD ESTIMATED SEWAGE FLOW BASED ON [ ] METERED WATER [✓] TABLE I, 62-6, FAC

SITE CONDITIONS: [ ] DRAINAGE STRUCTURES [ ] POOL [ ] PATIO / DECK [ ] PARKING
[ ] SLOPING PROPERTY [ ] _____

NATURE OF FAILURE: [ ] HYDRAULIC OVERLOAD [ ] SOILS [ ] MAINTENANCE [ ] SYSTEM DAMAGE
[ ] DRAINAGE / RUN OFF [ ] ROOTS [ ] WATER TABLE [ ] _____

FAILURE SYMPTOM: [ ] SEWAGE ON GROUND [ ] TANK [ ] D BOX/HEADER [ ] DRAINFIELD
[ ] PLUMBING BACKUP [ ] _____

REMARKS/ADDITIONAL CRITERIA 900 gl 9 x 4 x 3.5.

SUBMITTED BY: _____ TITLE/LICENSE CFC037110 DATE: 03/14/24

DEP 4015, 06-21-2022 (Obsoletes previous editions which may not be used)
Incorporated 62-6.004, FAC

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WELL FORM

DOH#_____

Chapter 62-6.004(3)(a), F.A.C.:

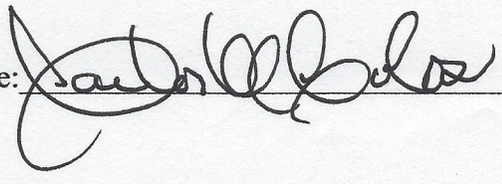
A plan or plat of the lot or total site ownership drawn to scale, showing boundaries with dimensions, locations of any existing or proposed residences or buildings, swimming pools, recorded easements, the on-site sewage treatment and disposal system components and their location on the property, the 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 64.-6.002(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 64-6.002(44)(b), within 100 feet of the applicant lot must also be shown, or as defined in Chapter 64-6.002(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: 10300 SW 70 Ave, Pinecrest, FL 33156

Date: 03/14/2024 Signature: 

Florida Department of Health
Division of Environmental Health and Engineering
Miami-Dade County
1725 NW 167th Street, Miami, FL 33056
PHONE: 786-654-6620 • Email: hrsdoh@flhealth.gov
FloridaHealth.gov

PHAB Accredited Health Department
Public Health Accreditation Board

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Examiner	Date Time Stamp	Trade Stamp Name
TOLEDO, GABRIEL	3/21/2024 1:05:12 PM HRS	Approved

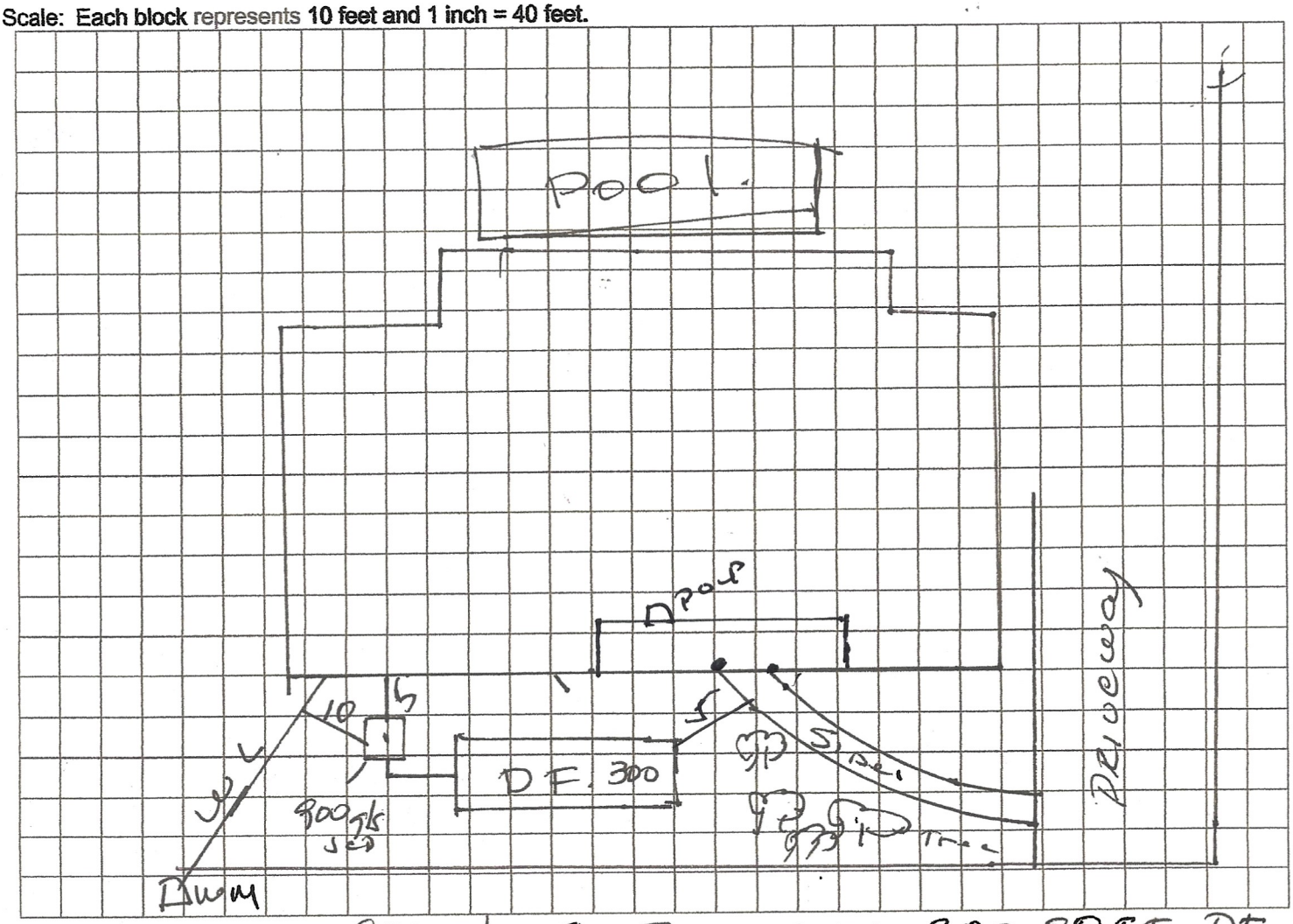
10300 SW 70 Ave.

STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
APPLICATION FOR CONSTRUCTION PERMIT

Permit Application Number_____

---------- PART II - SITEPLAN ----------

Scale: Each block represents 10 feet and 1 inch = 40 feet.



Notes: Existing 900 gls Septic with 300 SQFT DF.

Existing system for addition of Den with bathroom

Site Plan submitted by: Carlos M. Cobos

Plan Approved_____ Not Approved_____ Date 03/14/2024

By_____ County Health Department

ALL CHANGES MUST BE APPROVED BY THE COUNTY HEALTH DEPARTMENT

DEP 4015 06-24-2022 (Obsoletes previous editions which may not be used)

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LEGAL DESCRIPTION

- THIRD ADDN TO KENDALL EAST, PB 90-49, LOT 10 BLK 4

GENERAL NOTES

- PRIOR TO CONSTRUCTION CONTRACTOR SHALL VERIFY CLEARANCES OF DUCTWORK AND LIGHTS. REPORT ANY DISCREPANCIES TO ARCHITECT PRIOR TO CONSTRUCTION.
- CONTRACTOR TO COORDINATE CABINET INSTALLATION WITH ELECTRICAL OUTLET LOCATIONS. REFER TO ELECTRICAL DRAWINGS AND CABINET SHOP DRAWINGS.
- CONTRACTOR TO COORDINATE ALL INTERIOR BUILT-INS AND INTERIOR FINISHES - FLOORING, CEILINGS, PAINT, PLASTIC LAMINATING, ETC. - COLOR AND STYLE WITH TENANT / OWNER PRIOR TO FABRICATION AND/OR INSTALLATION.
- ALL WOOD BLOCKING SHALL BE FIRE RETARDANT TREATED WOOD

SAFEGUARD UNDER CONST.

- THIS PROJECT SHALL CONFORM TO ALL SAFEGUARD CONSTRUCTION REQUIREMENTS AS PER CHAPTER 33 OF THE 2020 F.B.C. AND ALL PREVAILING CODES UNDER THIS JURISDICTION
- STRUCTURES UNDERGOING CONSTRUCTION, ALTERATION, OR DEMOLITION OPERATIONS, INCLUDING THOSE IN UNDERGROUND LOCATIONS, SHALL COMPLY WITH NATIONAL FIRE PROTECTION ASSOCIATION 241, STANDARD FOR SAFEGUARDING CONSTRUCTION, ALTERATION, AND DEMOLITION OPERATIONS.
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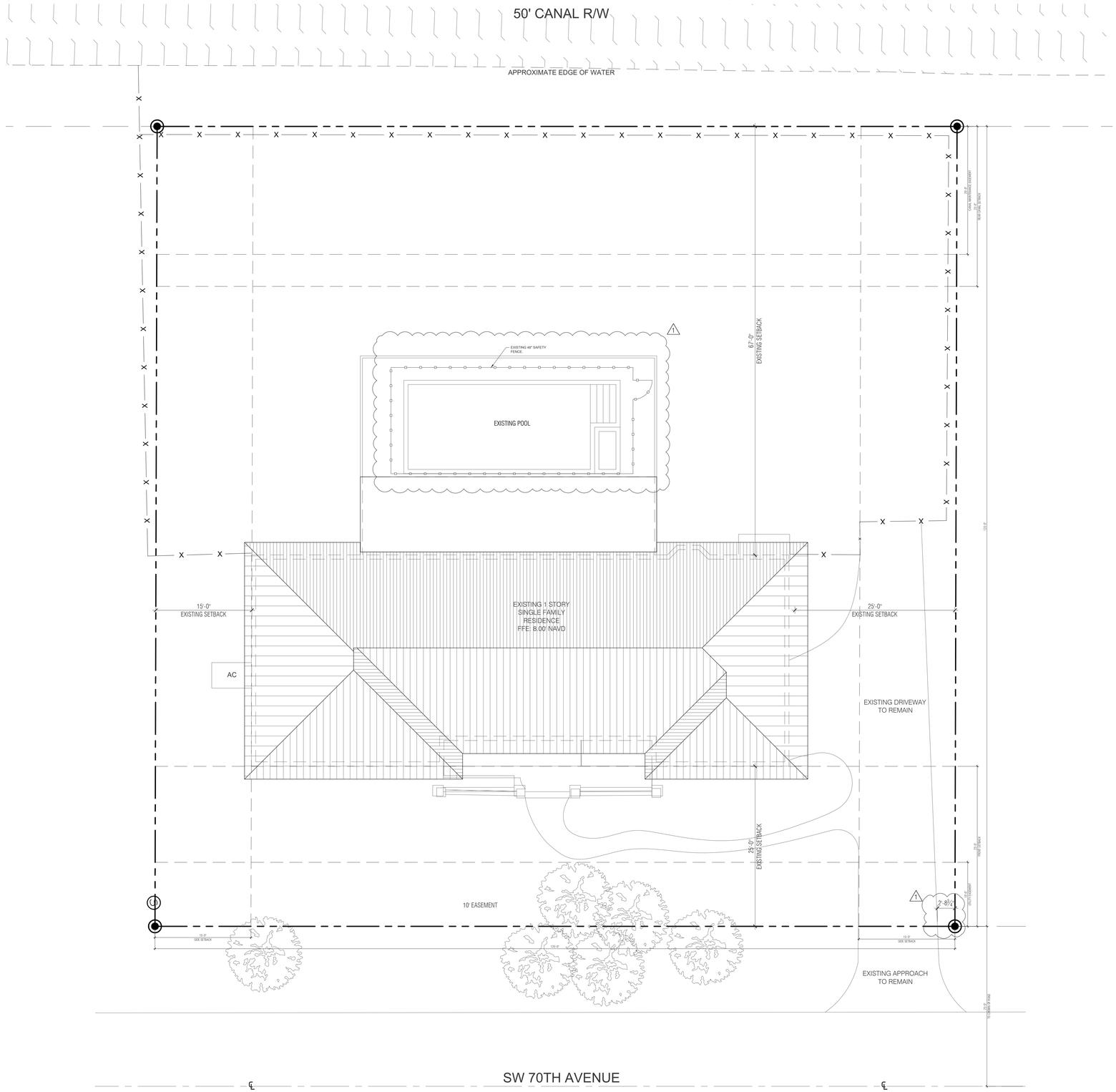

EXISTING SITE PLAN

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

ARKO ARCHITECTURE, LLC
2490 CORAL WAY, SUITE 301
MIAMI, FL 33145
edgardo@thearkogroup.com
eduardo@thearkogroup.com
www.thearkogroup.com
p: 305.400.8133

ADDITION & RESTORATION FOR:

MAZZINI & MELINE RESIDENCE

10300 SW 70TH AVE,
MIAMI, FL 33156

Digitally signed by Edgardo J Betancourt Santiago
Date: 2024.02.09 11:07:37-05'00'

STATE OF FLORIDA
EDGARDO J BETANCOURT SANTIAGO
AR99726
REGISTERED ARCHITECT

DRAWN BY MV
DATE 03.29.23
CHECKED BY EV
PROJECT 22-84

REVISIONS

1 10.06.23 BUILDING DEPARTMENT COMMENTS

EXISTING SITE PLAN

CONSTRUCTION DOCUMENTS

A-1.00

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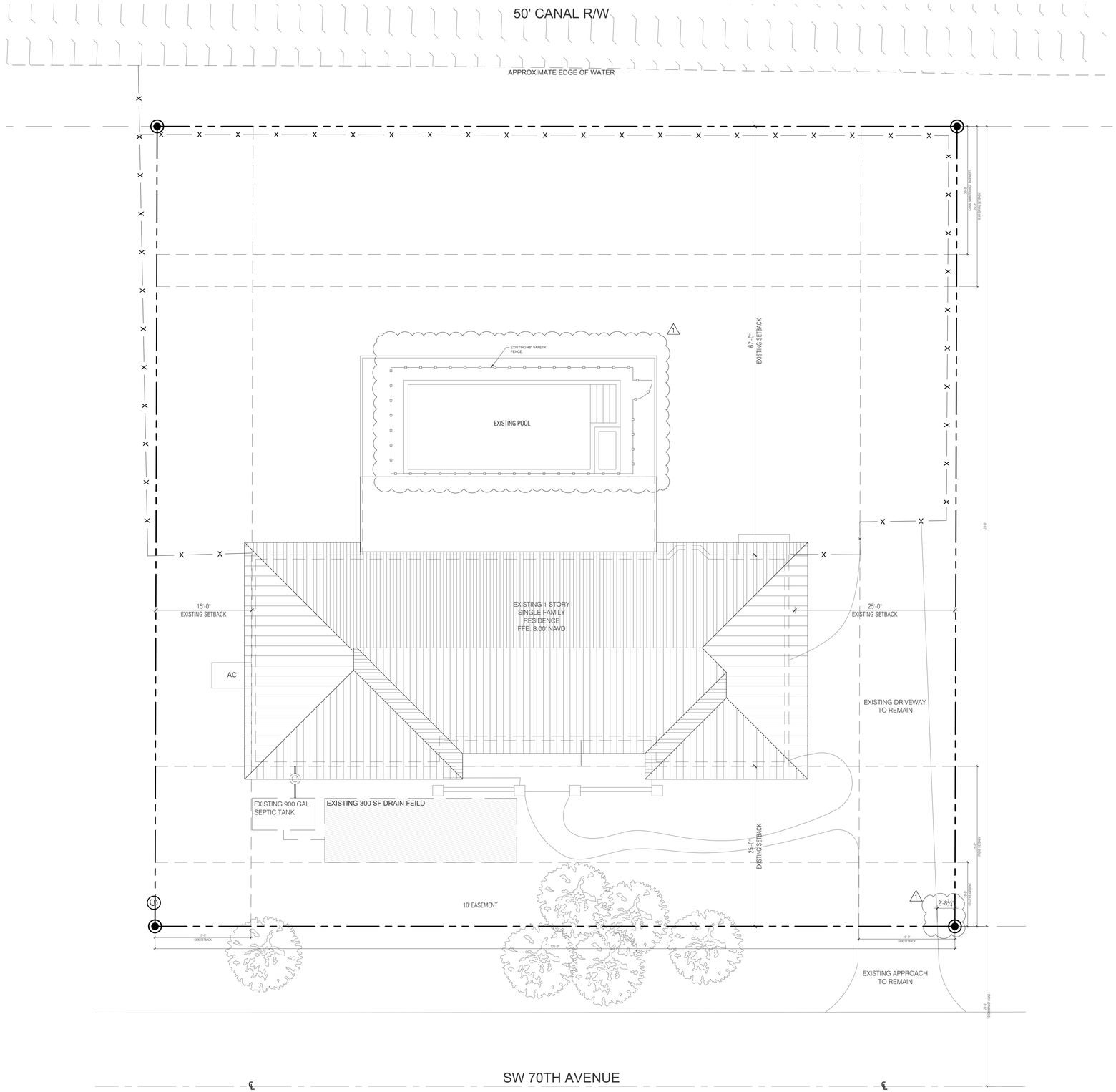

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10300 SW 70TH AVE, MIAMI, FL 33156

Digitally signed by Edgardo J Betancourt Santiago
Date: 2024.04.02 09:49:56-04'00'

STATE OF FLORIDA · EDGARDO J BETANCOURT SANTIAGO · AR99726 · REGISTERED ARCHITECT

DRAWN BY		
DATE	MV	PROJECT
03.29.23	CHECKED BY	22-84
	EV	

REVISIONS

1 10.06.23 BUILDING DEPARTMENT COMMENTS

CONSTRUCTION DOCUMENTS

A-1.00

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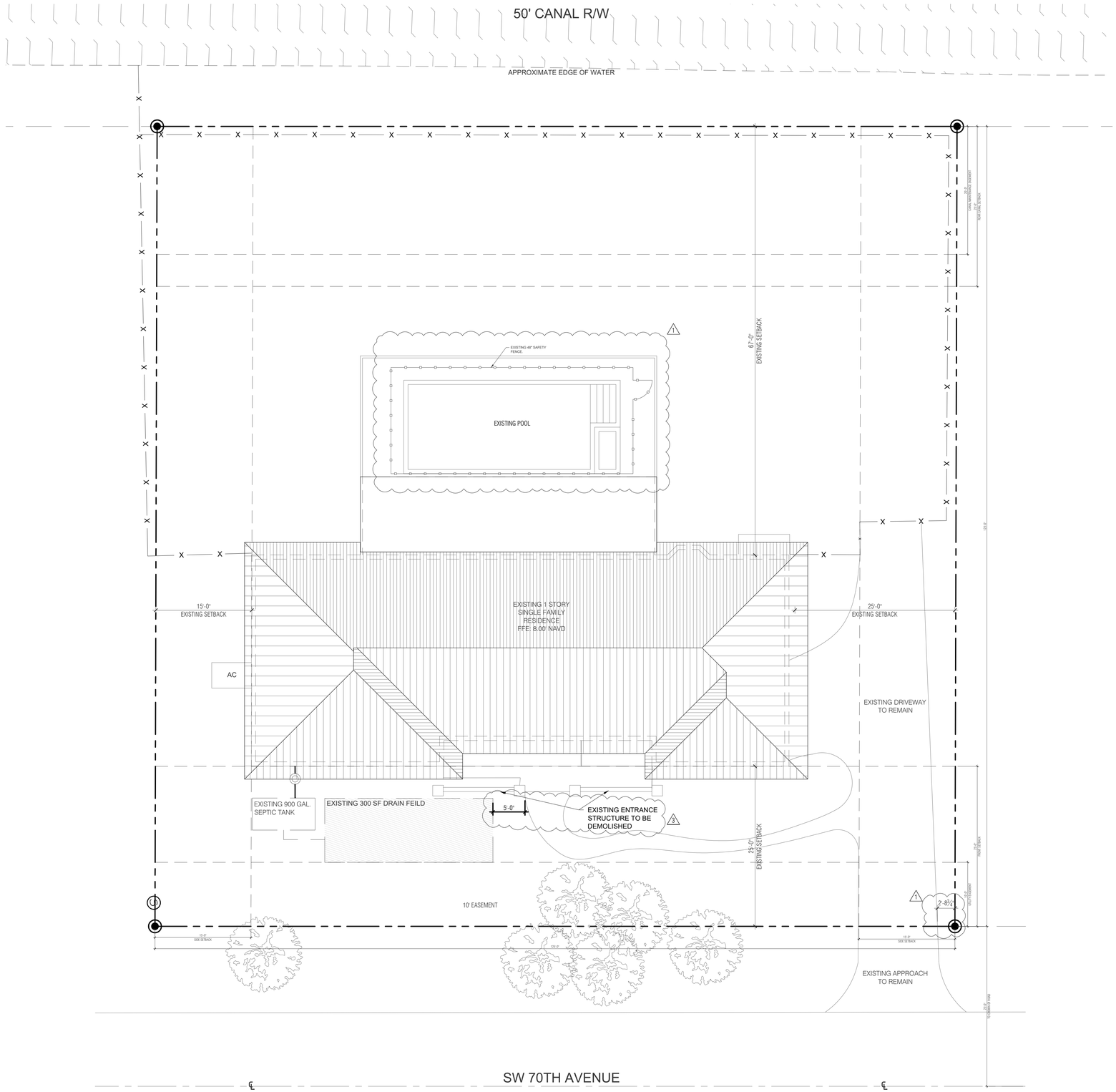

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DRAWN BY
DATE 03.29.23 | MV | PROJECT 22-84
CHECKED BY EV

REVISIONS

1 10.06.23 BUILDING DEPARTMENT COMMENTS

1 06.12.24 BUILDING DEPARTMENT COMMENTS

EXISTING SITE PLAN

CONSTRUCTION DOCUMENTS

A-1.00

THESE PLANS ARE THE COPYRIGHT AND PROPERTY OF ARKO ARCHITECTURE, LLC AND ARE NOT TO BE REPRODUCED, CHANGED, OR COPIED IN ANY FORM OR MANNER WHATSOEVER WITHOUT FIRST OBTAINING WRITTEN PERMISSION AND CONSENT. NOR ARE THEY TO BE ASSIGNED TO ANY PARTY WITHOUT FIRST OBTAINING SAID WRITTEN PERMISSION AND CONSENT. THE ARCHITECT HEREBY EXPRESSLY RESERVES THE COPYRIGHT AND PROPERTY RIGHTS IN THESE PLANS. DRAWINGS ARE NOT TO BE REPRODUCED, CHANGED, OR COPIED IN ANY FORM OR MANNER WHATSOEVER WITHOUT FIRST OBTAINING WRITTEN PERMISSION AND CONSENT. NOR ARE THEY TO BE ASSIGNED TO ANY PARTY WITHOUT FIRST OBTAINING SAID WRITTEN PERMISSION AND CONSENT.

ZONING LEGEND

ADDRESS: 10300 SW 70TH AVENUE, MIAMI, FL 33156				
1. ZONING DESIGNATION		EU-M		
2. LOT AREA		15,625 SF / 0.34 AC.		
3. LOT COVERAGE		ALLOWED/REQUIRED	EXISTING	PROPOSED
	30% MAX. BUILDING COVERAGE	4,687 SF	3,206 SF	3,430 SF (22%)
4. IMPERVIOUS SURFACE RATIO (I.S.R.)				
	65% MAX	10,156 SF	4,905 SF	5,915 SF (37.8%)
5. MAX. GREEN SPACE				
	55% MIN.	8,593 SF	10,719 SF	9,79 SF (62.1%)
6. SETBACKS				
	FRONT (EAST)	25'-0"	25'-0"	25'-0"
	SIDE (NORTH)	15'-0"	16'-0"	15'-0"
	SIDE (SOUTH)	15'-0"	25'-0"	15'-0"
	REAR (WEST)	25'-0"	67'-0"	25'-0"
7. BUILDING HEIGHT		1 STORY 35'-0" MAX.	16'	19'-8"
8. FLOOD ZONE		ZONE AE 10		

PROJECT SQUARE FOOTAGES

EXISTING A/C LIVING AREA: 2,650 SF
NEW A/C LIVING AREA: 1,653 SF
TOTAL NEW AREA UNDER ROOF: 4,303 SF

TYPE OF CONSTRUCTION

CONSTRUCTION TYPE - IIIB

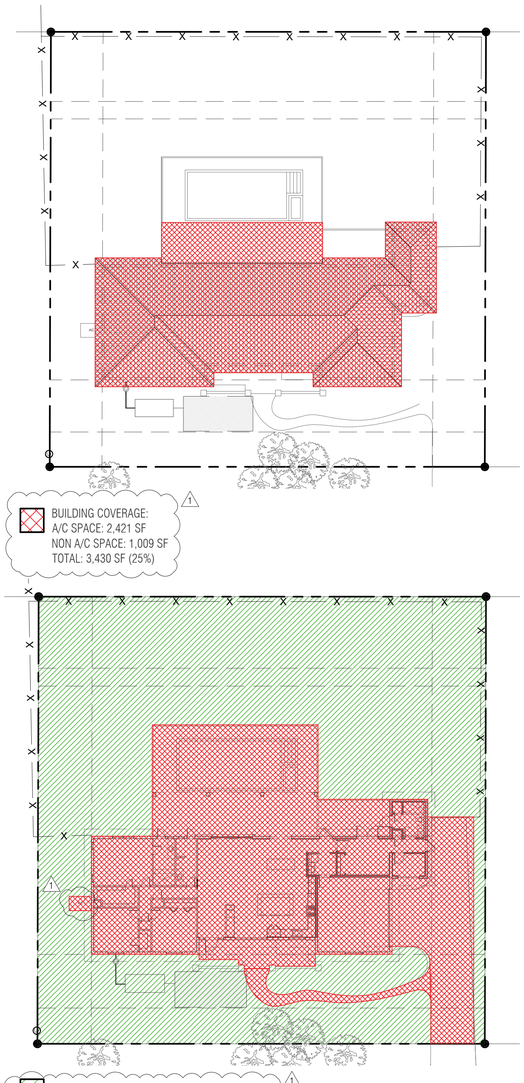
GOVERNING CODES

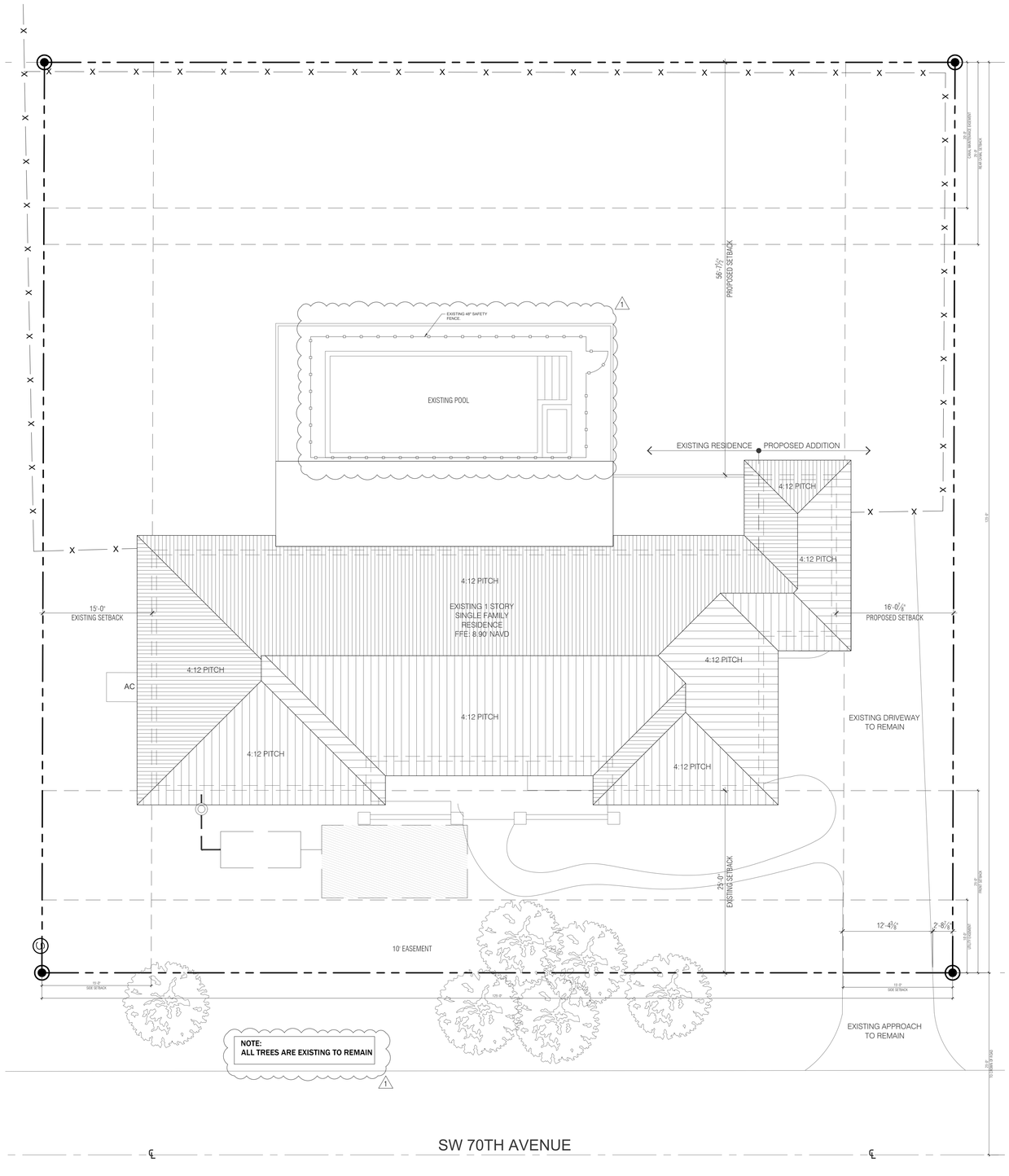
- GENERAL DESIGN AND CONSTRUCTION OF THIS PROJECT SHALL BE IN COMPLIANCE WITH THE FLORIDA BUILDING CODE 2020 EDITION WITH ALL REVISIONS AND ERRATA'S APPLICABLE TO THE JURISDICTION OF WHICH IT IS BEING CONSTRUCTED IN.
- FLORIDA EXISTING BUILDING CODE 2020 (FEBC)
- FLORIDA RESIDENTIAL BUILDING CODE 2020 (FBC)
- FLORIDA BUILDING CODE 2020 (FBC)

BUILDING AREAS

EXISTING A/C: 2,193 SF
EXISTING NON A/C (GARAGE): 458 SF
EXISTING NON A/C (COVERED TERRACE): 560
TOTAL: 3,211 SF

PROPOSED A/C: 2,422 SF
EXISTING NON A/C (GARAGE): 458 SF
EXISTING NON A/C (COVERED TERRACE): 560
TOTAL: 3,440 SF





PROPOSED SITE PLAN

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

ARKO ARCHITECTURE, LLC
2490 CORAL WAY. SUITE 301
MIAMI, FL 33145
edgardo@thearkogroup.com
eduardo@thearkogroup.com
www.thearkogroup.com
p: 305.400.8133

ADDITION & RESTORATION FOR:

MAZZINI & MELINE RESIDENCE

10300 SW 70TH AVE.
MIAMI, FL 33156

STATE OF FLORIDA
EDGARDO J BETANCOURT SANTIAGO
LICENSED ARCHITECT
AR99726

DRAWN BY
DATE 03.29.23 | MV | PROJECT 22-84
CHECKED BY EV

REVISIONS

1 10.06.23 BUILDING DEPARTMENT COMMENTS

PROPOSED SITE PLAN

CONSTRUCTION DOCUMENTS

A-1.01

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Examiner Date Time Stamp Trade Stamp Name
GUILLARTE, YAILYN 2/21/2024 11:01:41 AM DERM Approved
TOLEDO, GABRIEL 7/2/2024 2:59:42 PM HRS Void

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ZONING LEGEND

ADDRESS: 10300 SW 70TH AVENUE, MIAMI, FL 33156

1. ZONING DESIGNATION	EU-M		
2. LOT AREA	15,625 SF / 0.34 AC.		
3. LOT COVERAGE	ALLOWED/REQUIRED	EXISTING	PROPOSED
30% MAX. BUILDING COVERAGE	4,687 SF	3,206 SF	3,430 SF (22%)
4. IMPERVIOUS SURFACE RATIO (I.S.R.)			
65% MAX	10,156 SF	4,905 SF	5,915 SF (37.8%)
5. MAX. GREEN SPACE			
55% MIN.	8,593 SF	10,719 SF	9,79 SF (62.1%)
6. SETBACKS			
FRONT (EAST)	25'-0"	25'-0"	25'-0"
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PROJECT SQUARE FOOTAGES

EXISTING A/C LIVING AREA: 2,650 SF
NEW A/C LIVING AREA: 1,653 SF
TOTAL NEW AREA UNDER ROOF: 4,303 SF

TYPE OF CONSTRUCTION

CONSTRUCTION TYPE - IIIB

GOVERNING CODES

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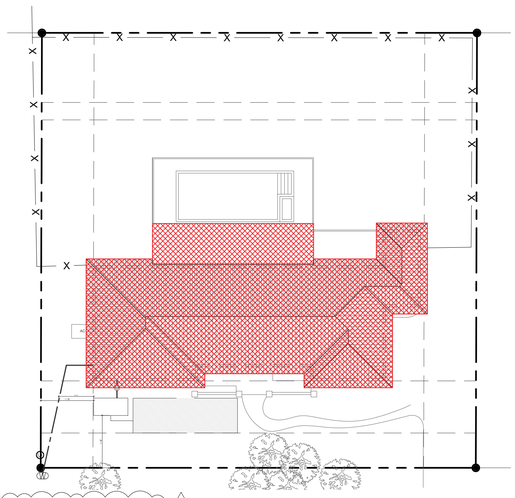
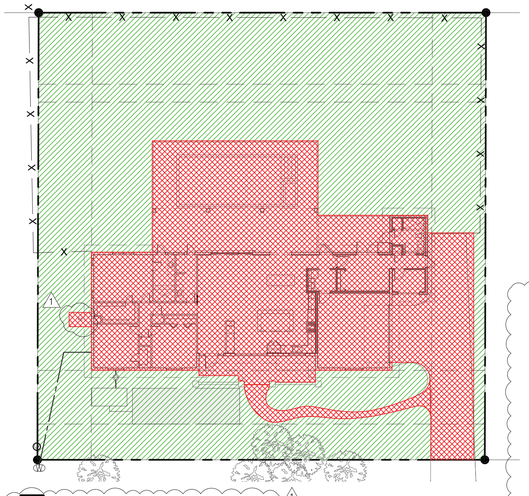


BUILDING COVERAGE:
A/C SPACE: 2,421 SF
NON A/C SPACE: 1,009 SF
TOTAL: 3,430 SF (25%)



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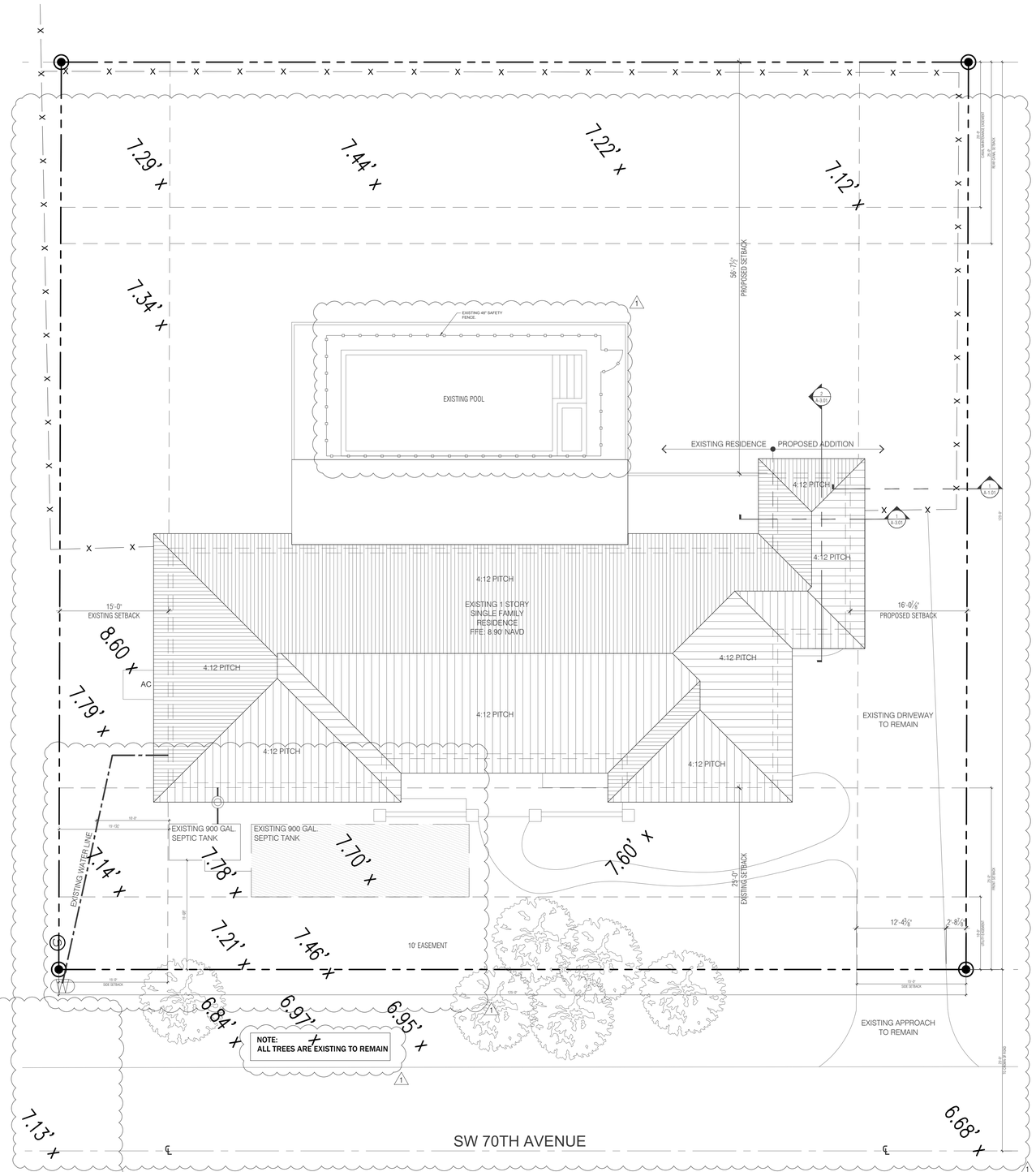

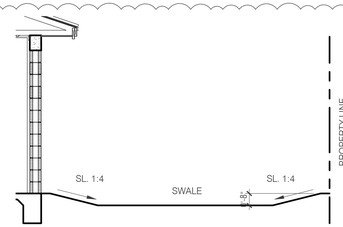

1 SECTION (STORMWATER RETENTION)
SCALE: 1/4" = 1'-0"

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Digitally signed by Edgardo J Betancourt Santiago
Date: 2024.03.18 18:01:59-04'00'

STATE OF FLORIDA
EDGARDO J BETANCOURT SANTIAGO
AR99726
REGISTERED ARCHITECT

DRAWN BY MV
DATE 03.29.23
CHECKED BY EV
PROJECT 22-84

REVISIONS
1 03.18.24 BUILDING DEPARTMENT COMMENTS

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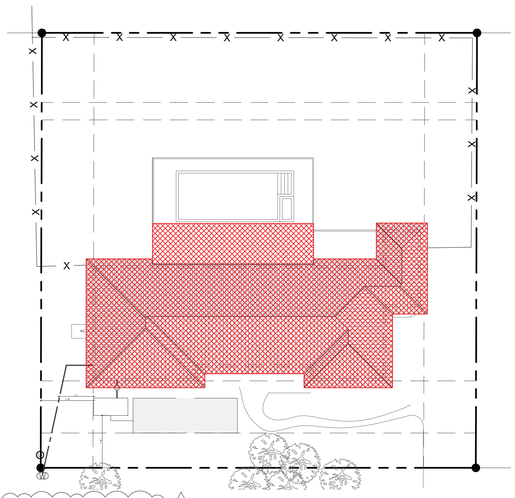

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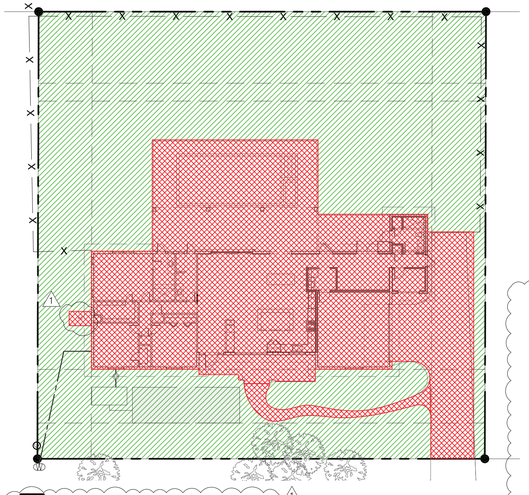

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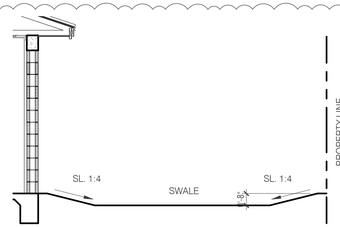

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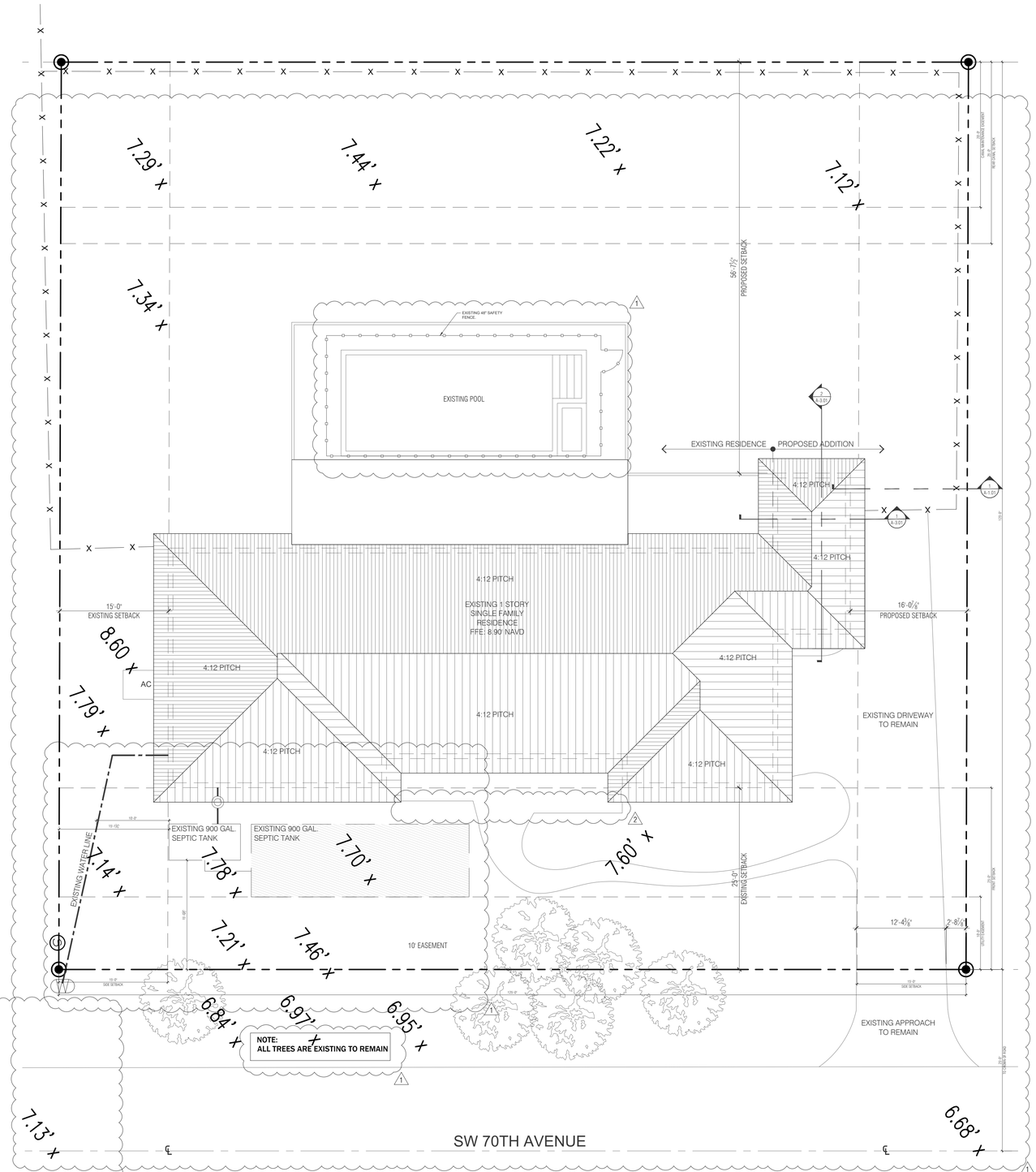

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ADDITION & RESTORATION FOR:

MAZZINI & MELINE RESIDENCE

10300 SW 70TH AVE.
MIAMI, FL 33156

Digitally signed by Edgardo J Betancourt Santiago
Date: 2024.04.02 09:49:58-04'00'

STATE OF FLORIDA
EDGARDO J BETANCOURT SANTIAGO
AR99726
REGISTERED ARCHITECT

DRAWN BY MV | PROJECT 22-84
DATE 03.29.23 | CHECKED BY EV

REVISIONS

1 03.18.24 BUILDING DEPARTMENT COMMENTS
2 04.02.24 BUILDING DEPARTMENT COMMENTS

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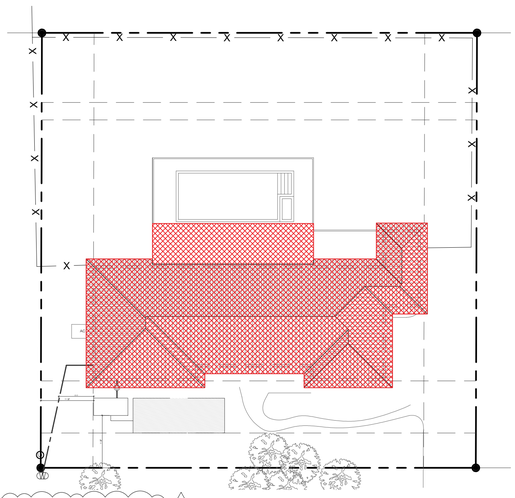

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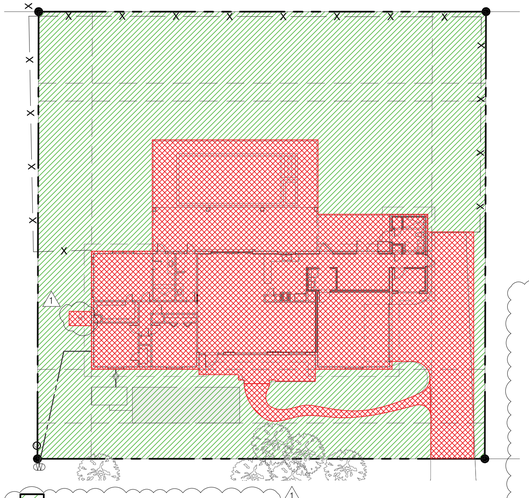

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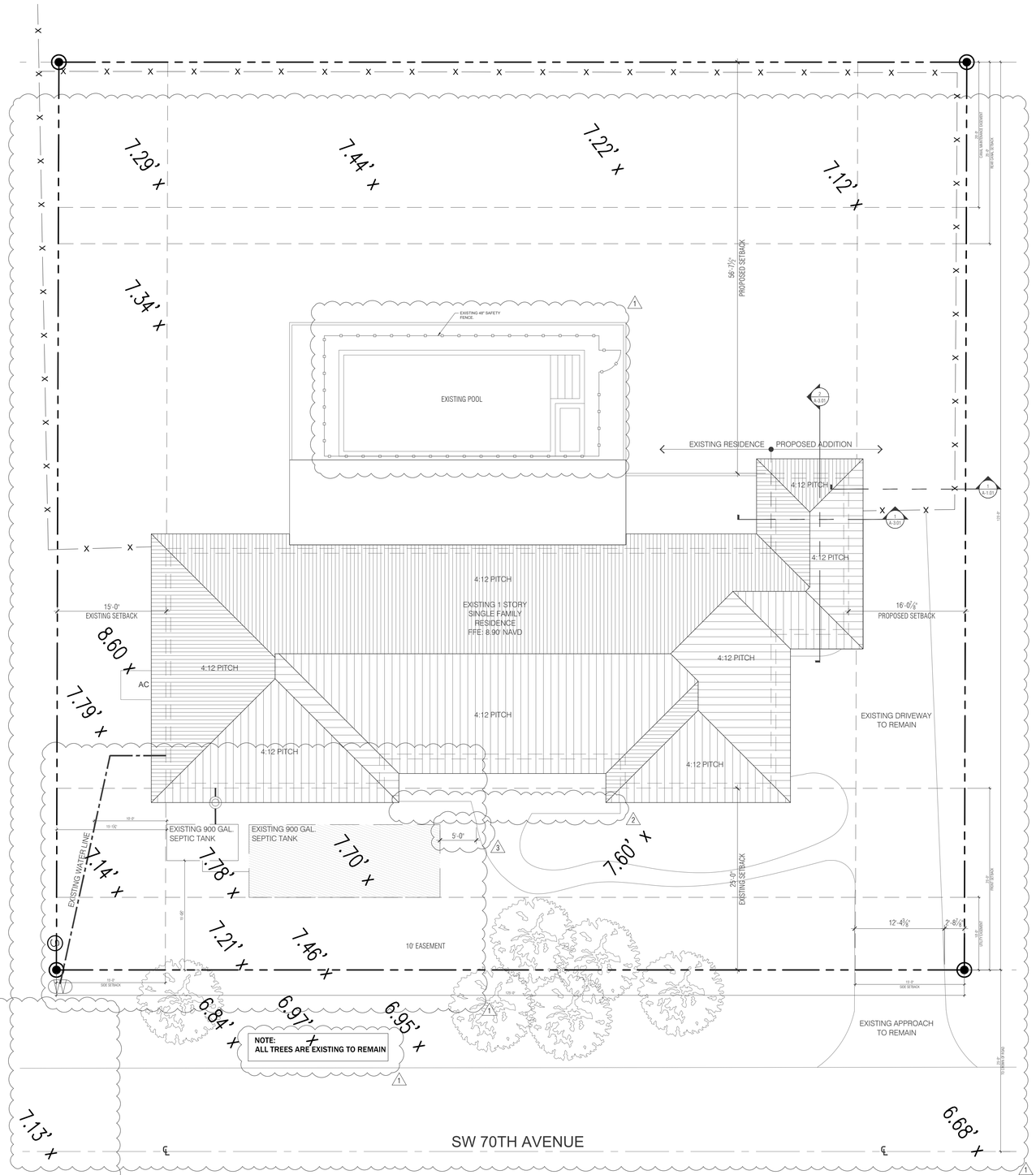
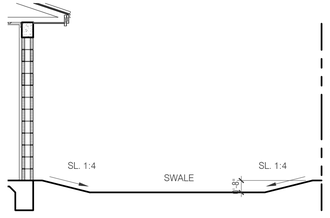


1 PROPOSED SITE PLAN
SCALE: 1/8" = 1'-0"



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Date: 2024.06.12 15:37:24-04'00'

STATE OF FLORIDA
EDGARDO J BETANCOURT SANTIAGO
AR99726
REGISTERED ARCHITECT

DRAWN BY MV
DATE 03.29.23
CHECKED BY EV
PROJECT 22-84

REVISIONS

1 03.18.24 BUILDING DEPARTMENT COMMENTS
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PROPOSED SITE PLAN

CONSTRUCTION DOCUMENTS

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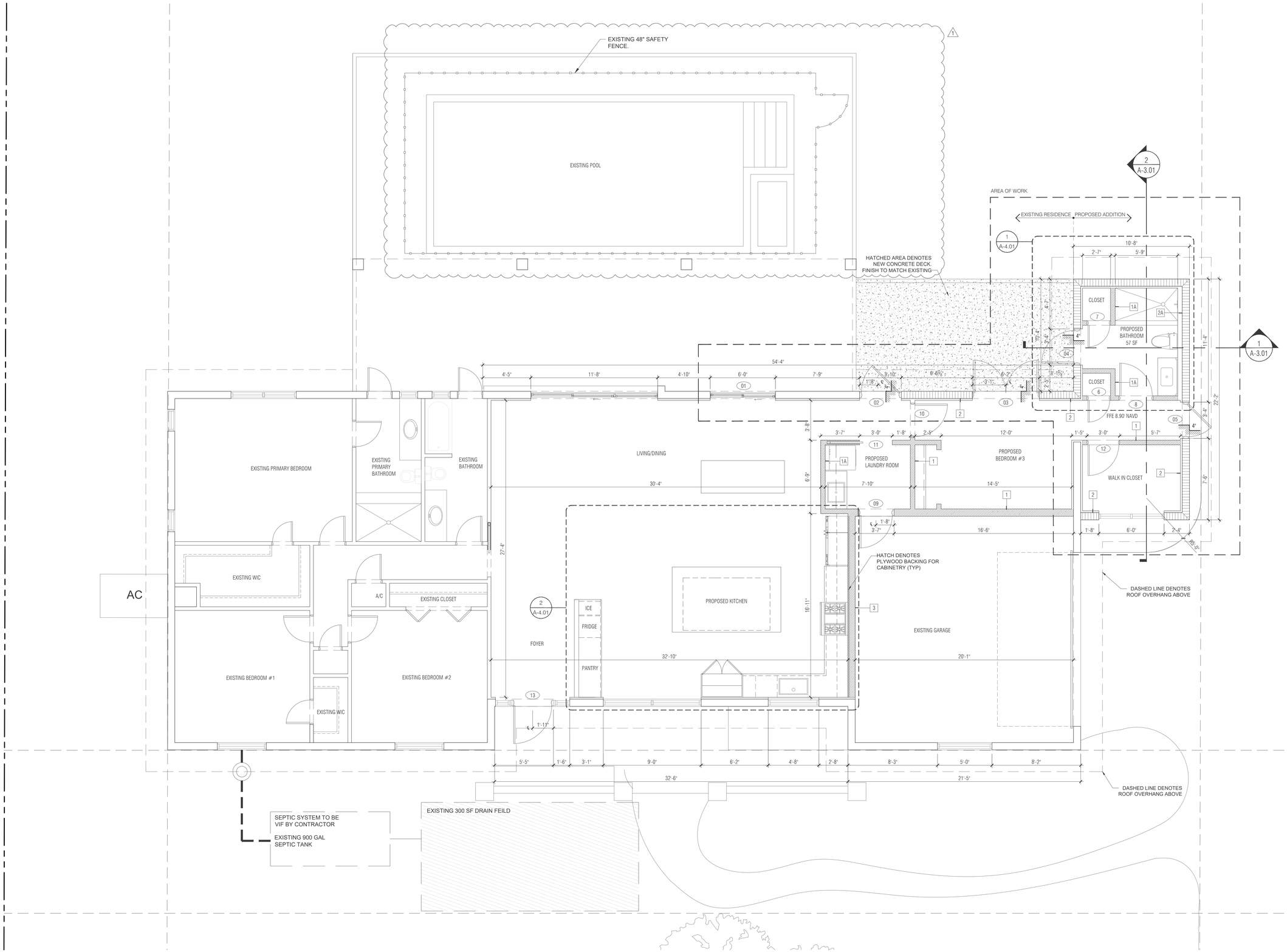

PROPOSED FLOOR PLAN

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A-1.02

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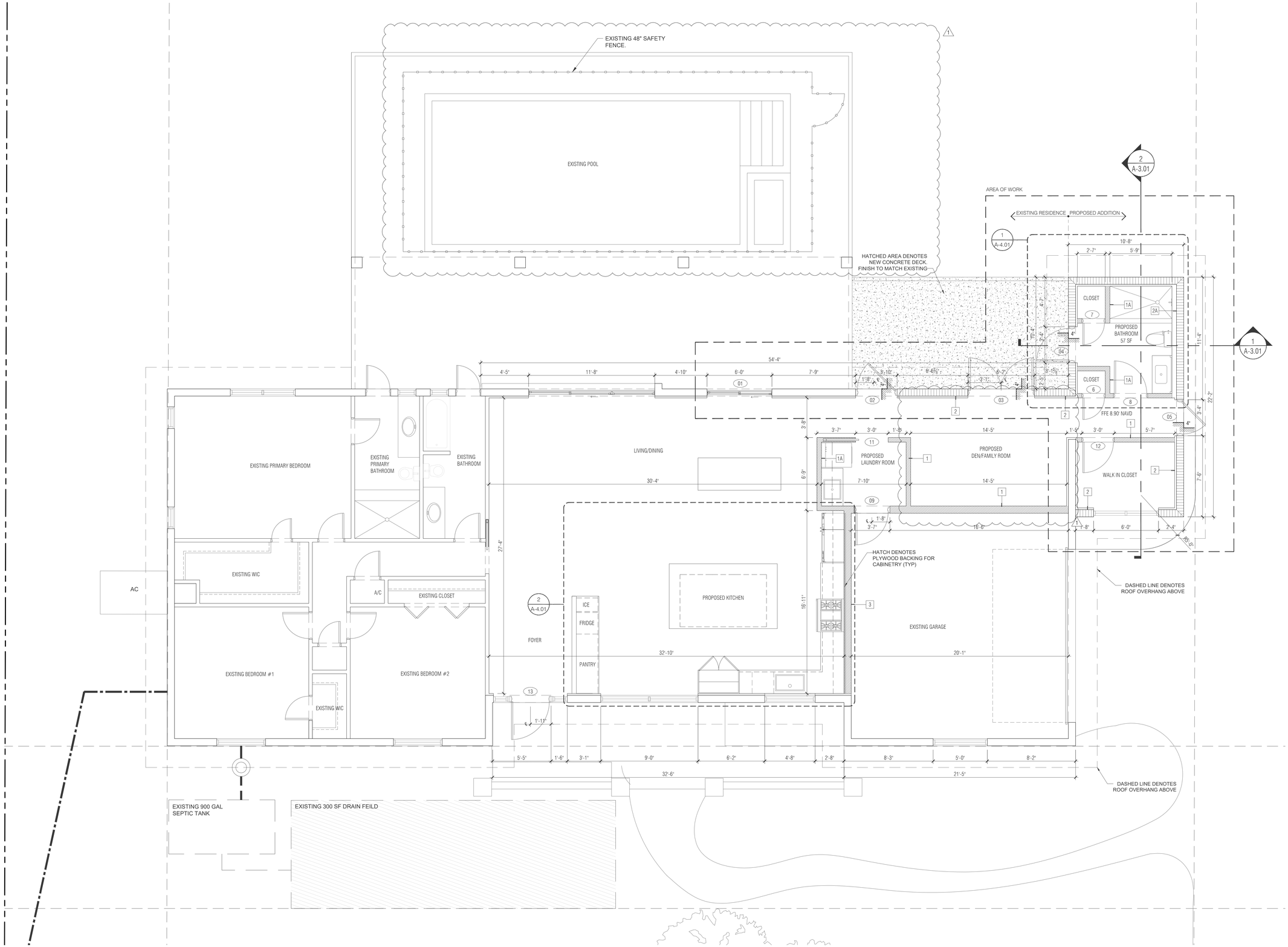

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DRAWN BY		
DATE	MV	PROJECT
03.29.23	CHECKED BY	22-84
	EV	

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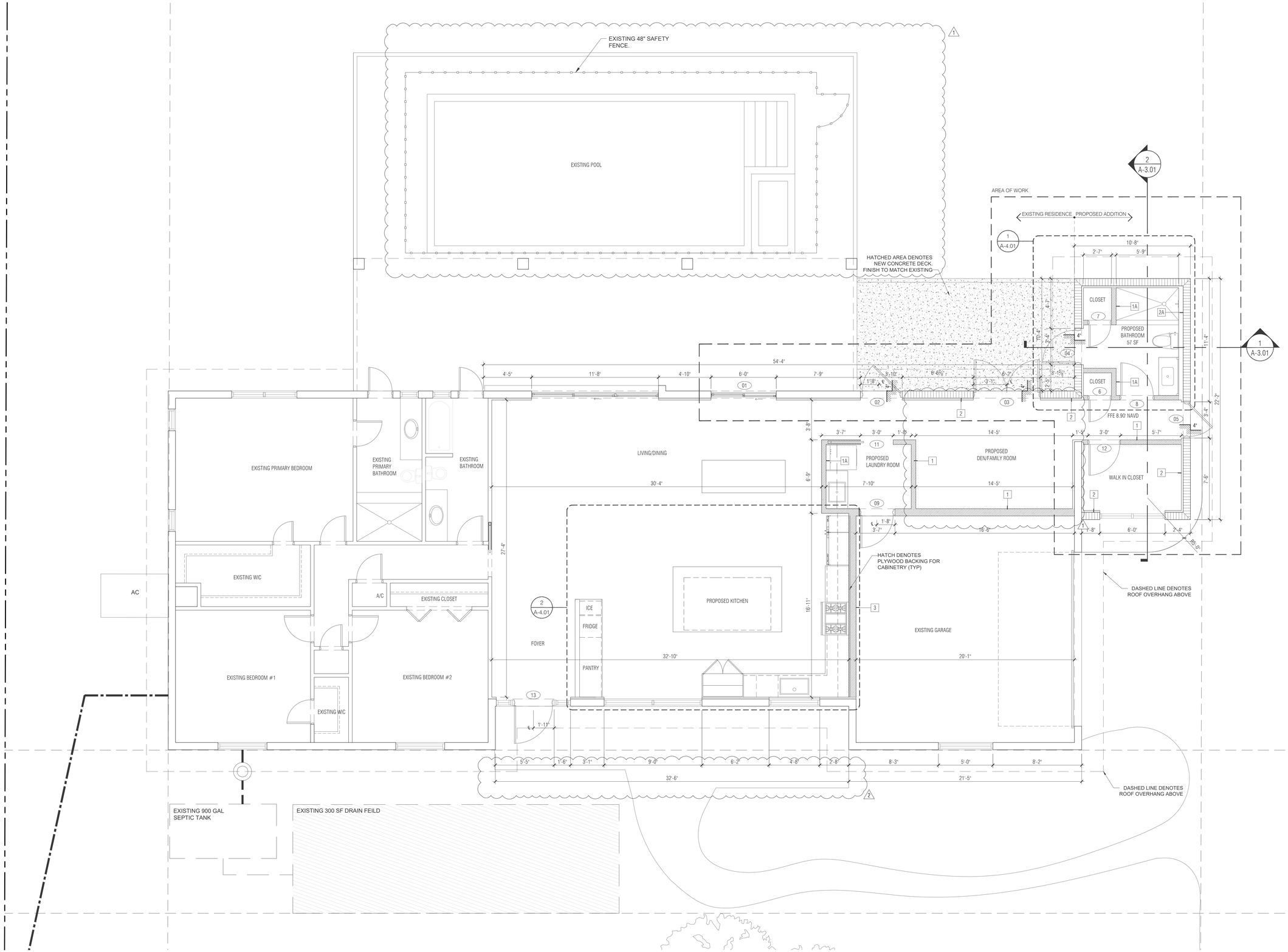

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CEILING LEGEND:

CEILING MATERIAL

1 8'-8"

CEILING HEIGHT ABOVE SLAB

1 GYPSUM BOARD PAINTED FINISH

2 STUCCO OVER METAL LATH

3 WOOD HARDIE BOARD

CEILING NOTES:

SPRINKLER HEADS IN PUBLIC & UTILITY AREA OF THE FIRST FLOOR SHALL BE PLACED AS NOTED ON THE FIRE PROTECTION DRAWINGS.

WALL MOUNT ALL UPPER FLOOR EXIT SIGNS, SEE ELECTRICAL DRAWINGS FOR LOCATION

SEE ELECTRICAL DRAWINGS FOR LOCATION OF ADDITIONAL WALL-MOUNTED LIGHTING

FIXTURE LEGEND:

- RECESS MOUNTED DOWN LIGHT
- CEILING MOUNTED EXHAUST GRILL W/ LIGHT
- JUNCTION BOX
- WALL SCONCE

FIXTURE NOTES:
REFER TO ELECTRICAL ENGINEERS PLANS FOR LIGHTING, FIXTURE SCHEDULE, AND ADDITIONAL INFORMATION.

REFER TO MECHANICAL ENGINEERS PLANS FOR SUPPLY AND RETURN DIFFUSER LOCATIONS AND ADDITIONAL INFORMATION.

FOR LIGHTS IN EMERGENCY SYSTEM SEE ELECTRICAL PLANS.

GENERAL NOTES:

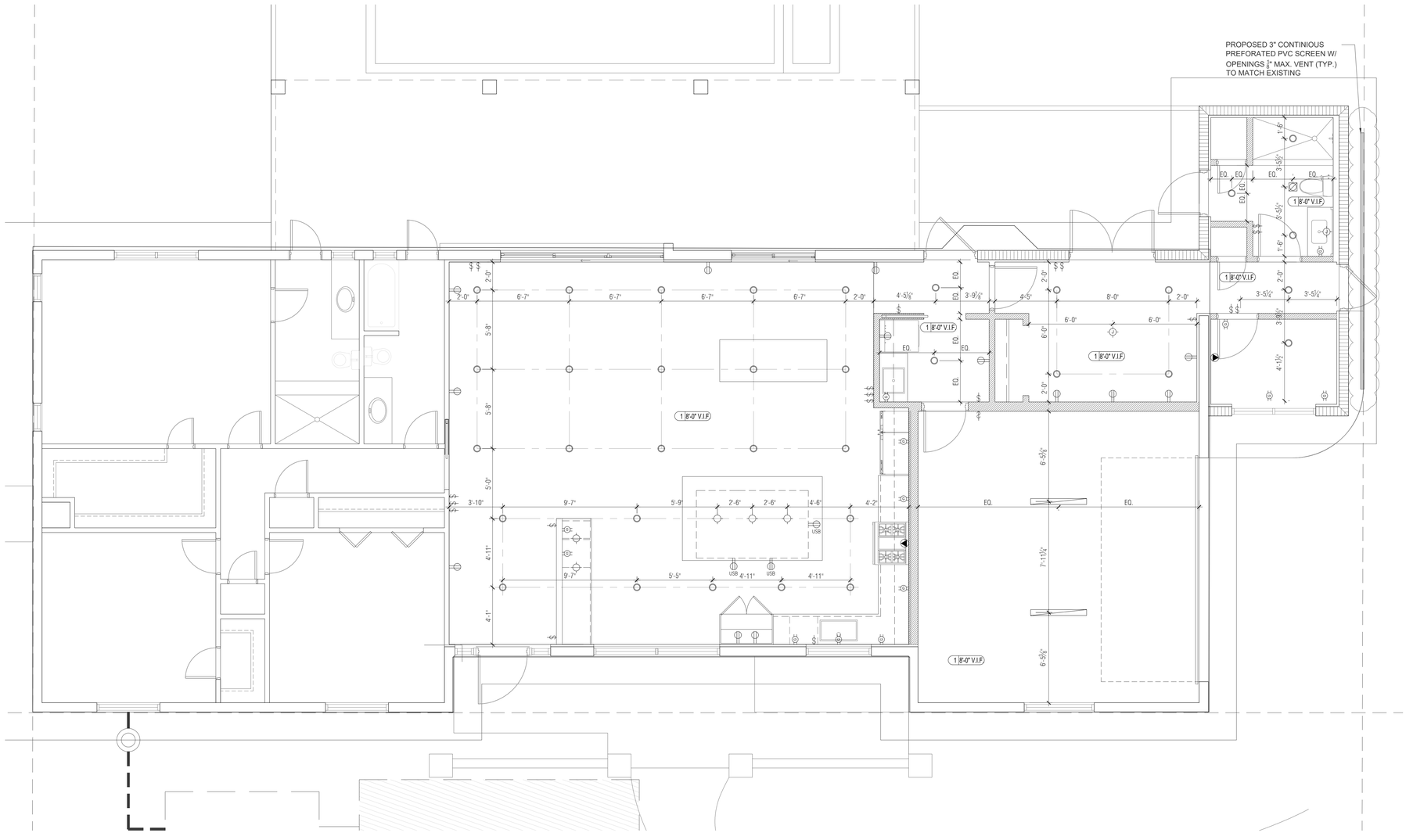
1. COORDINATE ALL CEILING FIXTURES SHOWN ON REFLECTED CEILING PLAN WITH MECHANICAL & ELECTRICAL DWGS. ALL DISCREPANCIES SHALL BE BROUGHT TO THE ARCHITECT'S ATTENTION BEFORE PROCEEDING WITH THE WORK.
2. FOR FIXTURE TYPE & SPECIFICATIONS, SEE MECHANICAL, ELECTRICAL.
3. REFER TO FLOOR PLANS FOR RM. NAMES & RM. NUMBERS.
4. CONTRACTOR SHALL SUMBMIT DETAILED SHOP DWGS. & CALCULATIONS, SIGNED & SEALED BY A FLORIDA REGISTERED ENGINEER INDICATING COMPLIANCE W/ THE SFBC FOR SOFFIT & EXTERIOR CEILING STRUCTURAL DESIGN, INCLUDING: ATTACHMENT METHOD, FRAMING, SUBFRAMING (SUCH AS FOR LIGHT FIXTURES), DECKING & OTHER MISC. COMPONENTS AS MAYBE NECESSARY. THE GENERAL COMPOSITION OF THE SYSTEM IS NOTED HEREIN IN THESE DOCUMENTS FOR PRICING PURPOSES ONLY.

GARAGE ATTIC CROSS VENTILATION SPACE CALCULATION:

GARAGE ATTIC AREA = 383 SQ. F
REQ. VENT AREA = 383 x 1/150 = 2.55 SQ. F (3 SQ. F)
3 SQ. F x 144 = 432 SQ. IN

PROPOSED VENT AREA = 3' x 18'-4" = 660 SQ. IN
THE PROPOSED VENT AREA COMPLY WITH 1/150 MIN. REQ. BY R806.2. FBC B1203.2

1



PROPOSED REFLECTED CEILING PLAN

SCALE: 1/4" = 1'-0"

ARKO ARCHITECTURE, LLC
2490 CORAL WAY. SUITE 301
MIAMI, FL 33145
edgardo@thearkogroup.com
eduardo@thearkogroup.com
www.thearkogroup.com
p: 305.400.8133

ADDITION & RESTORATION FOR:

MAZZINI & MELINE RESIDENCE

10300 SW 70TH AVE, MIAMI, FL 33156

Digitally signed by Edgardo J Betancourt Santiago
Date: 2024.02.09 11:07:42-05'00'

STATE OF FLORIDA
EDGARDO J BETANCOURT SANTIAGO
AR99726
REGISTERED ARCHITECT

DATE	DRAWN BY	PROJECT
03.29.23	MV	22-84
	CHECKED BY	
	EV	

REVISIONS

PROPOSED REFLECTED CEILING PLAN

CONSTRUCTION DOCUMENTS

A-1.03

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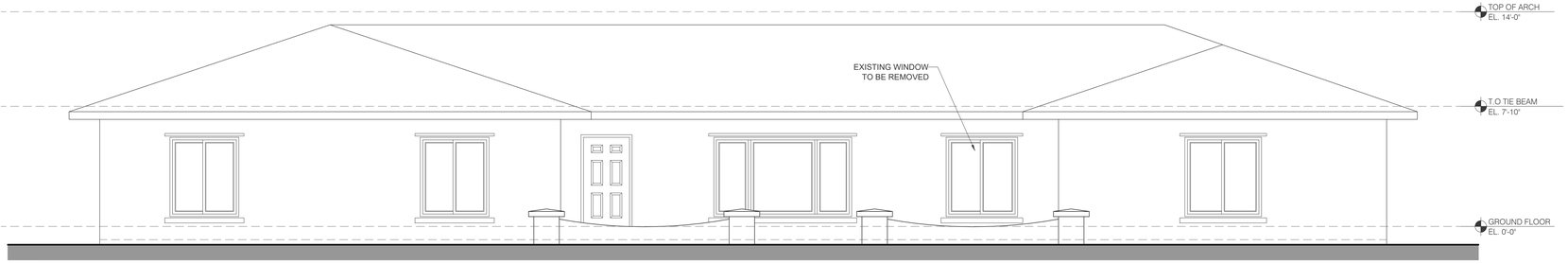
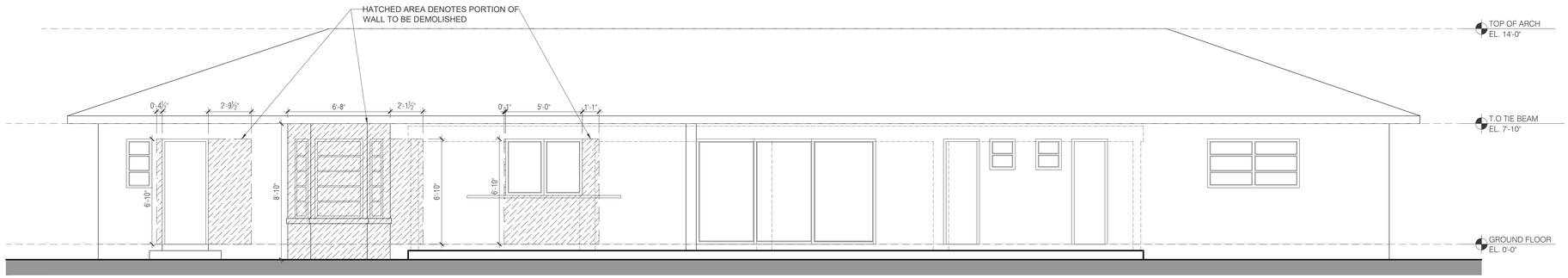


EXISTING SOUTH ELEVATION (FRONT)

SCALE: 1/4" = 1'-0"

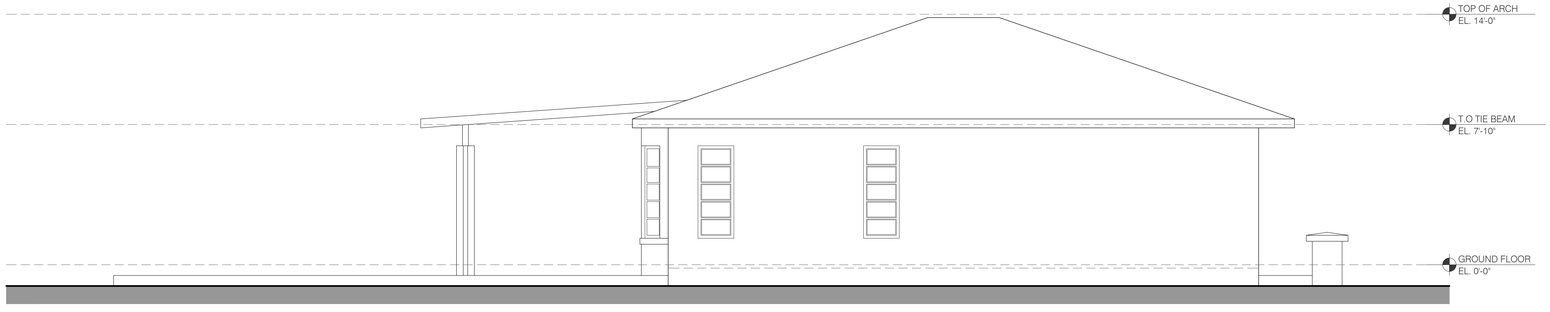


EXISTING NORTH ELEVATION (REAR)

SCALE: 1/4" = 1'-0"

EXISTING EAST ELEVATION (RIGHT)

SCALE: 1/4" = 1'-0"



EXISTING WEST ELEVATION (LEFT)

SCALE: 1/4" = 1'-0"

NOTES

- CONTRACTOR TO VERIFY ALL DIMENSIONS FOR SELECTIVE DEMOLITION W/ PROPOSED FLOOR PLAN, PROPOSED ELEVATION, AND WINDOW AND DOOR SCHEDULES.
- REFER TO DEMOLITION NOTES ON D-1.00
- REFER TO STRUCTURAL DWGS FOR NEW OPENING DETAILS.

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STATE OF FLORIDA
EDGARDO J BETANCOURT SANTIAGO
AR99726
REGISTERED ARCHITECT

DRAWN BY
DATE 03.29.23 | MV | PROJECT 22-84
CHECKED BY EV

REVISIONS

1 XX.XX.XX BUILDING DEPARTMENT COMMENTS

EXISTING NORTH AND EAST ELEVATIONS

CONSTRUCTION DOCUMENTS

A-2.00

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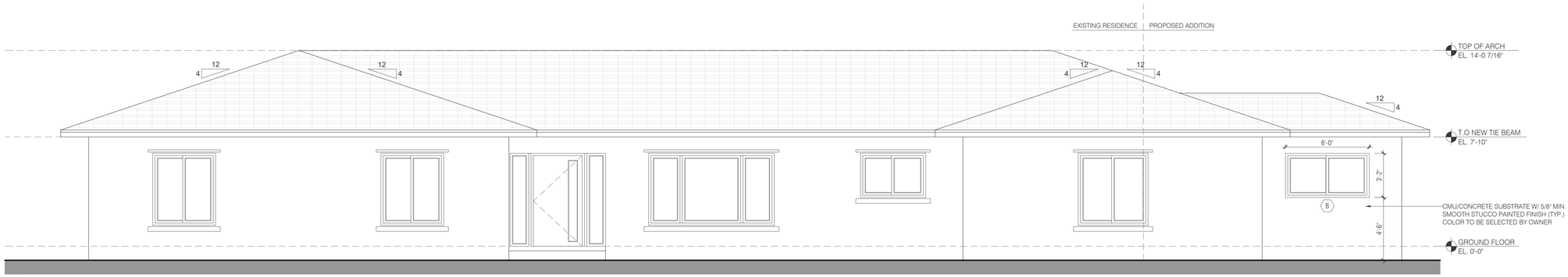
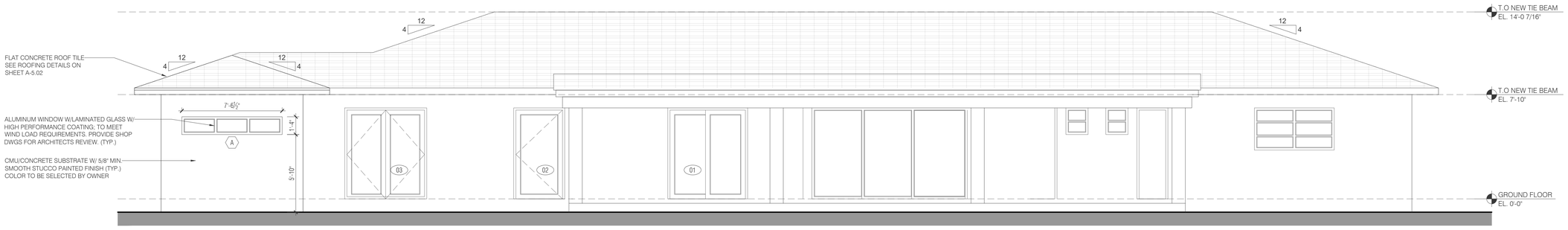


PROPOSED SOUTH ELEVATION (FRONT)

SCALE: 1/4" = 1'-0"



PROPOSED NORTH ELEVATION (REAR)

SCALE: 1/4" = 1'-0"

NOTES
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DATE	MV	PROJECT
03.29.23	CHECKED BY EV	22-84

REVISIONS

EXISTING NORTH AND EAST ELEVATIONS

CONSTRUCTION DOCUMENTS

A-2.01

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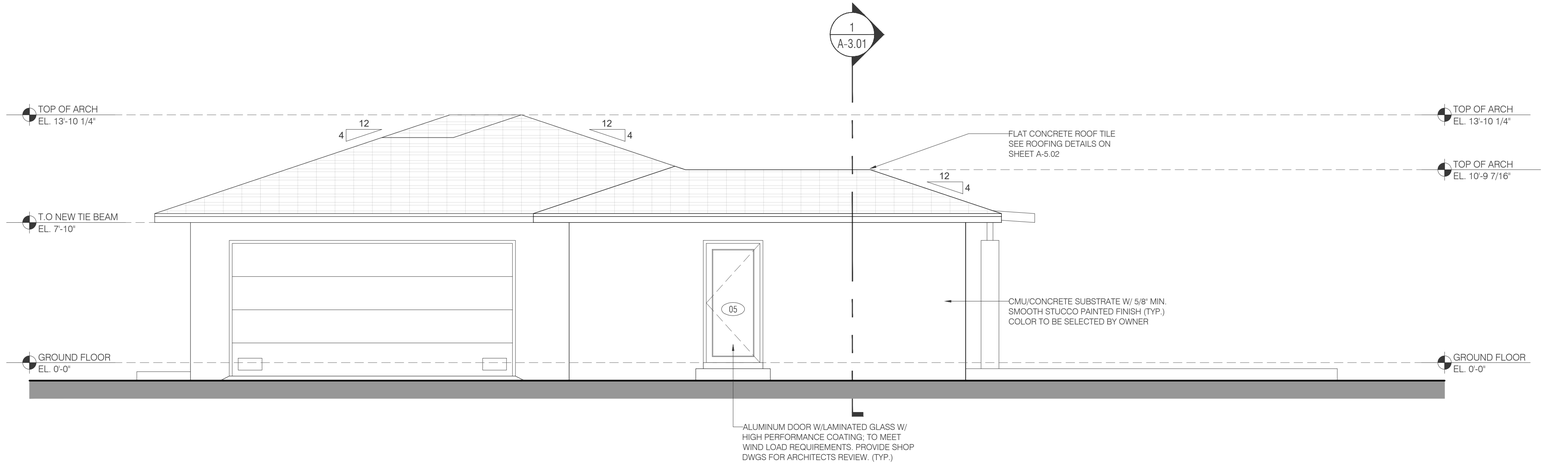
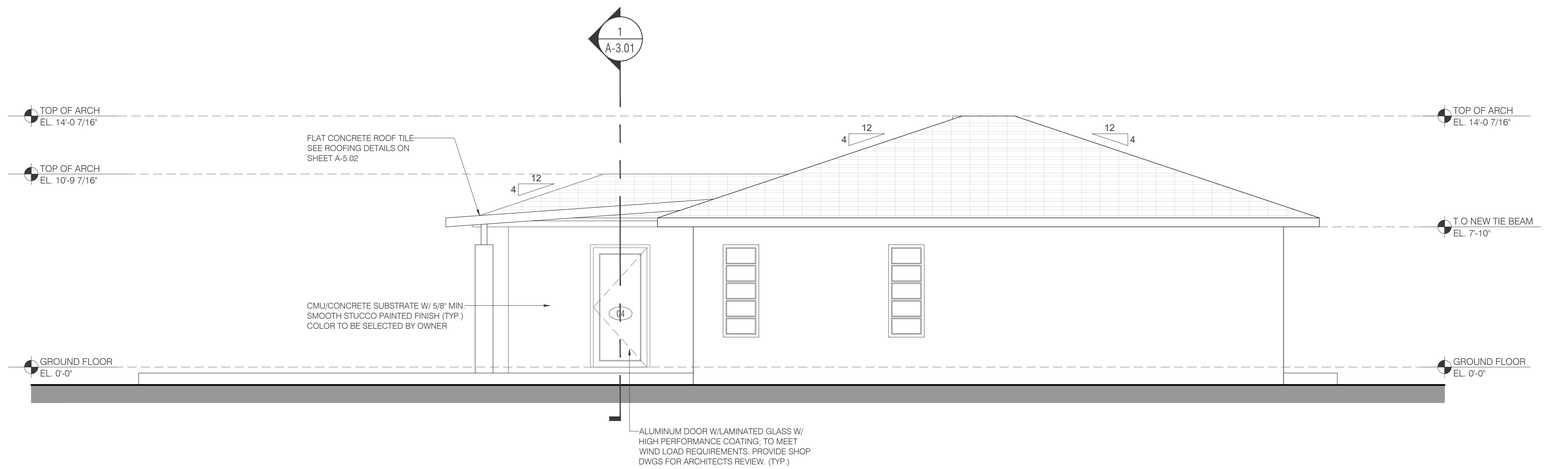


PROPOSED EAST ELEVATION (RIGHT)

SCALE: 1/4" = 1'-0"



PROPOSED WEST ELEVATION (LEFT)

SCALE: 1/4" = 1'-0"

NOTES
- CONTRACTOR TO VERIFY ALL DIMENSIONS FOR SELECTIVE DEMOLITION W/ PROPOSED FLOOR PLAN, PROPOSED ELEVATION, AND WINDOW AND DOOR SCHEDULES.
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DATE	MV	PROJECT
03.29.23	CHECKED BY	22-84
	EV	

REVISIONS

PROPOSED EEVATIONS

CONSTRUCTION DOCUMENTS

A-2.02

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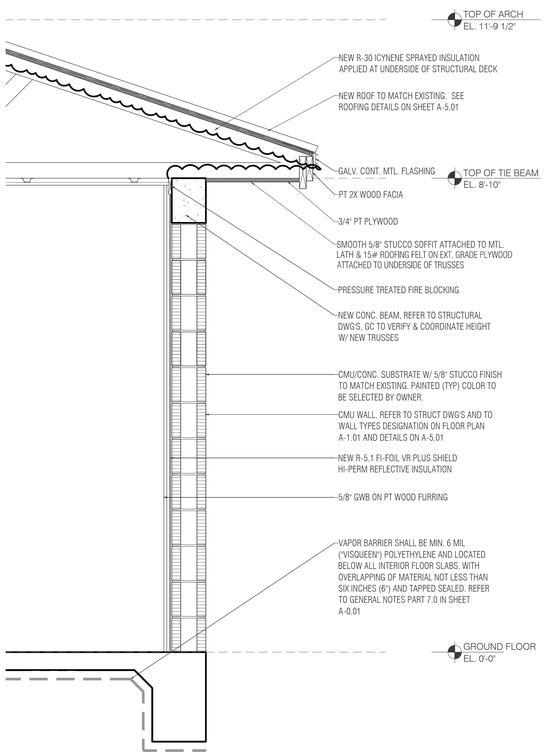
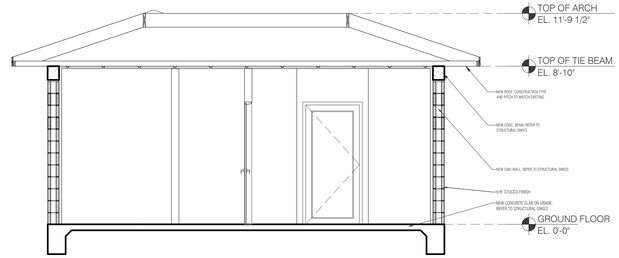


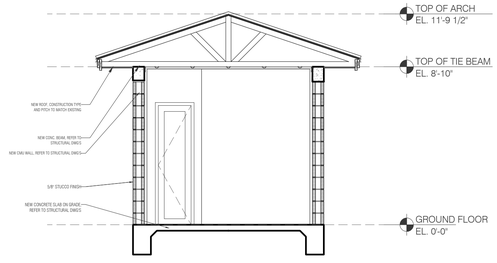
3 WALL SECTION

SCALE: 3/4" = 1'-0"



1 BUILDING SECTION

SCALE: 1/4" = 1'-0"



2 BUILDING SECTION

SCALE: 1/4" = 1'-0"

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DRAWN BY
DATE 03.29.23 | MV | PROJECT 22-84
CHECKED BY EV

REVISIONS

1 10.06.23
BUILDING DEPARTMENT COMMENTS

SECTIONS

CONSTRUCTION DOCUMENTS

A-3.01

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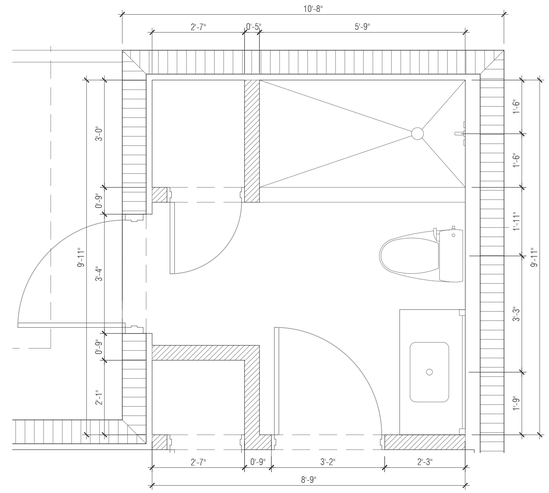
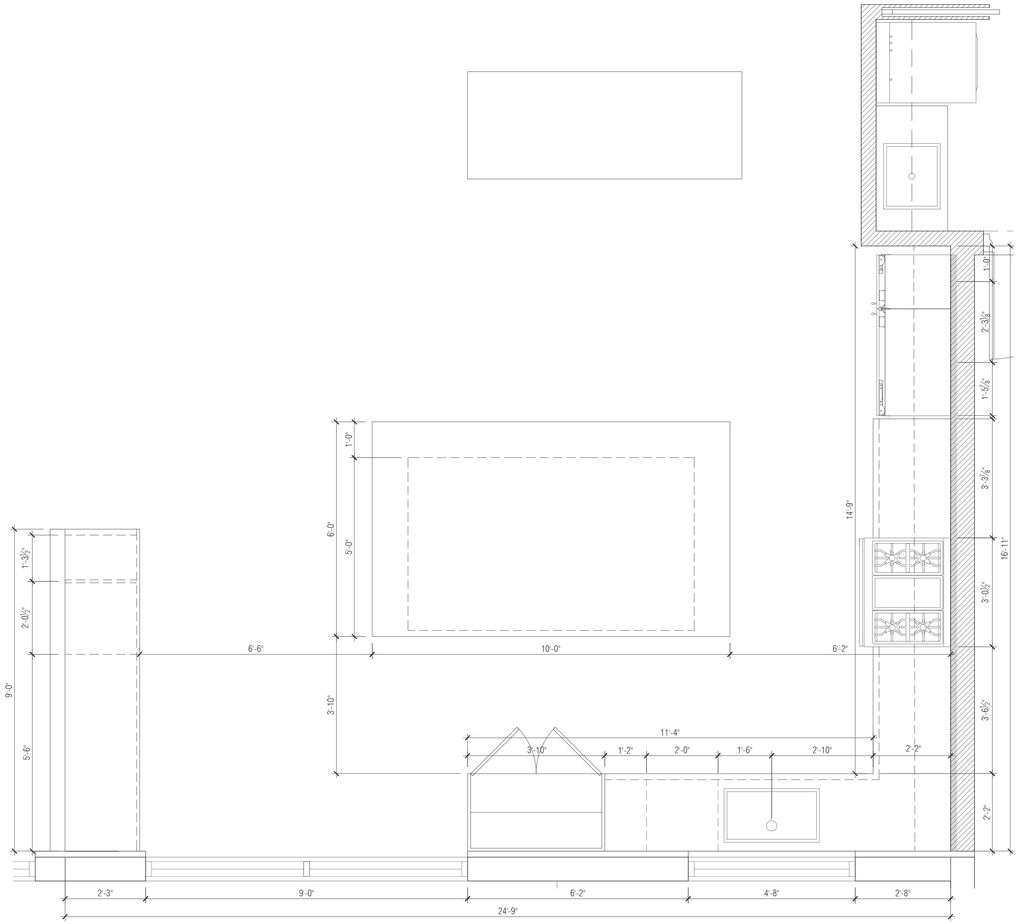


1 ENLARGED BATHROOM #1

SCALE: 1/2" = 1'-0"



2 ENLARGED KITCHEN PLAN

SCALE: 1/2" = 1'-0"

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2490 CORAL WAY, SUITE 301
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edgardo@thearkogroup.com
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03.29.23	CHECKED BY	22-84
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ENLARGED PLANS

CONSTRUCTION DOCUMENTS

A-4.01

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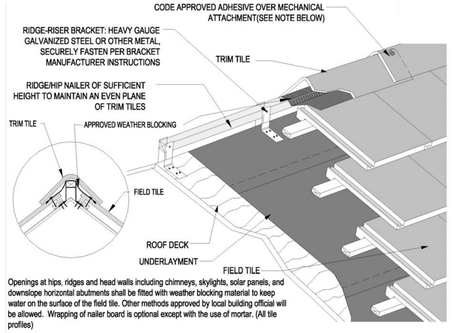
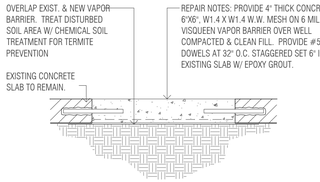


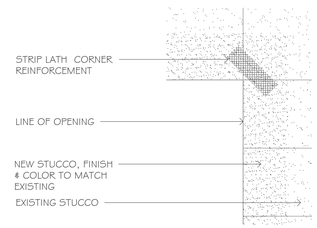
6 RIDGE DETAIL

SCALE: N.T.S.



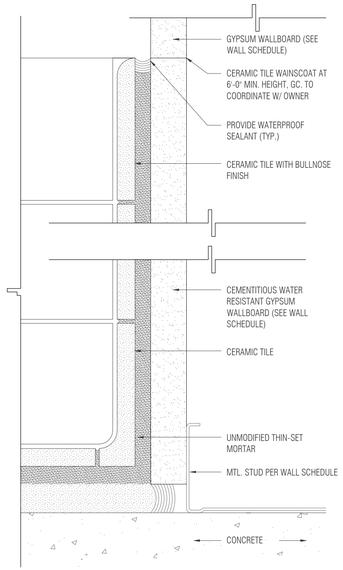
7 SLAB REPAIR DETAIL

NTS



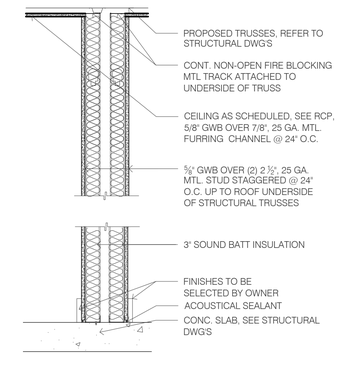
8 STUCCO REINFORCEMENT DETAIL

SCALE: 1" = 1'0"



BATHROOM TILE DETAIL

NTS



WALL TYPE #3 ULV488 (1HR)

SCALE: 1" = 1'-0"

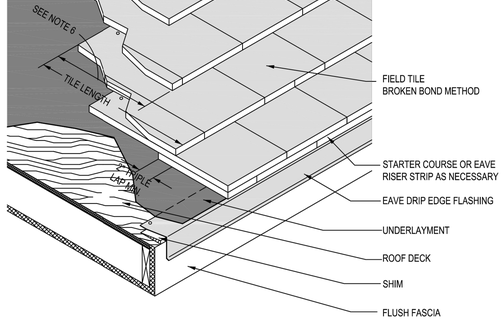
Note: Tile at valleys may be cut to form closed or open metal valley detail. When flat profiled tile is installed as "closed valley" a ribbed valley metal or a single crown valley metal with a batten extension shall be used.

When using standing hem flashing, used woven underlayment method. See MC-03 & MC-17B.

Notes:
1. For recommended underlayment and fastening requirement, see Table 1A and 1B.
2. Cut tile pieces should be secured by one or a combination of the following: (a) code approved adhesive; (b) wire ties (c) batten extension (d) cut tie clip or (e) other code approved fastening device.
3. Metal valley flashing is required to be a minimum of (No. 26 galvanized sheet gauge) not less than 0.019 inch corrosion-resistant metal (G90). See Table A for additional options. Valley flashing shall extend at least 11 inches from center line each way and have a splash diverter rib not less than 1 inch high at flow line formed as part of the flashing.
4. Other valley metal profiles are available. See MC-12B for example.
5. Tile must extend a minimum of 4" over the valley metal.
6. Dimensions shown are minimums and are intended to be approximate to allow for reasonable tolerances due to field conditions, and area practices.
7. Valley details should be designed to suit climatic area, control water runoff, and discharge expected water flows.

5 ROOFING VALLEY DETAIL

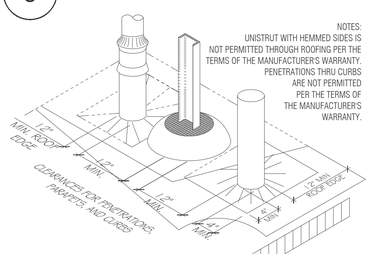
SCALE: N.T.S.



Notes:
1. Provide one layer of No. 30 asphalt-saturated felt complying with ASTM D-226 Type II (ASTM D4869 Type IV) as minimum underlayment on all tile roof applications. Other underlayments as approved by local building officials will be allowed.
2. A sheet metal drip edge flashing is required with: stucco fascia, EIFS (Exterior Insulated Finish System) and flush fascia perimeter edges.
3. The fasteners must penetrate a minimum of 3/4" into dimensional wood decking or pass through wood panel sheathing which ever is less.
4. For recommended tile fastening schedule(s) see Fastening Table 1A.
5. Dimensions shown are minimums and are intended to be approximate to allow for reasonable tolerances due to field conditions.
6. Standard head lap equal to tile length minus 2" divided by 2.

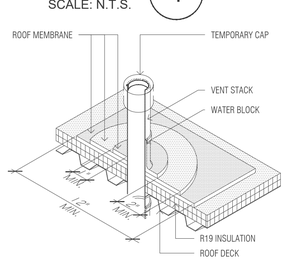
4 CONCRETE TILES ROOFING DETAIL

SCALE: N.T.S.



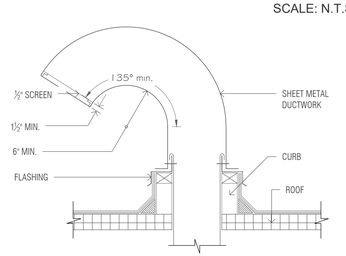
3 TYP. PENETRATION DTL.

SCALE: N.T.S.



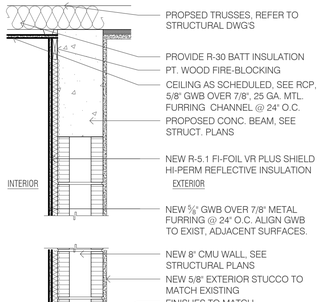
2 V.T.R. FLASHING

SCALE: N.T.S.



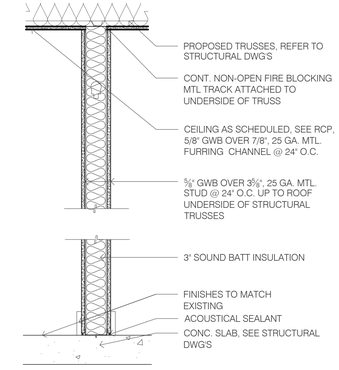
1 GOOSE NECK DETAIL

SCALE: N.T.S.



WALL TYPE #2

SCALE: 1" = 1'-0"



WALL TYPE #1

SCALE: 1" = 1'-0"

- THIS PROJECT SHALL CONFORM TO ALL SAFEGUARD CONSTRUCTION REQUIREMENTS AS PER CHAPTER 33 OF THE 2020 F.B.C. AND ALL PREVAILING CODES UNDER THIS JURISDICTION
- STRUCTURES UNDERGOING CONSTRUCTION, ALTERATION, OR DEMOLITION OPERATIONS, INCLUDING THOSE IN UNDERGROUND LOCATIONS, SHALL COMPLY WITH NATIONAL FIRE PROTECTION ASSOCIATION 241, STANDARD FOR SAFEGUARDING CONSTRUCTION, ALTERATION, AND DEMOLITION OPERATIONS.
- IN BUILDINGS UNDER CONSTRUCTION, ADEQUATE ESCAPE FACILITIES SHALL BE MAINTAINED AT ALL TIMES FOR THE USE OF CONSTRUCTION WORKERS. ESCAPE FACILITIES SHALL CONSIST OF DOORS, WALKWAYS, STAIRS, RAMPS, FIRE ESCAPES, LADDERS, OR OTHER APPROVED MEANS OR DEVICES ARRANGED IN ACCORDANCE WITH THE GENERAL PRINCIPLES OF NATIONAL FIRE PROTECTION ASSOCIATION 101, LIFE SAFETY CODE®, INSOFAR AS THEY CAN REASONABLY BE APPLIED TO BUILDINGS UNDER CONSTRUCTION.
- PER N.F.P.A. 1141 SECTION 3-9.6 AT LEAST ONE PORTABLE FIRE EXTINGUISHER HAVING A RATING OF AT LEAST 4-A, 30-BC SHALL BE WITHIN A TRAVEL DISTANCE OF 75 FT OR LESS TO ANY POINT OF A STRUCTURE UNDER CONSTRUCTION. PERSONNEL NORMALLY ON THE CONSTRUCTION SITE SHALL BE INSTRUCTED IN THE USE OF THE FIRE EXTINGUISHER PROVIDED.
- FIRE DEPARTMENT ACCESS ROADS SHALL BE PROVIDED AT THE START OF THIS PROJECT AND SHALL BE MAINTAINED THROUGHOUT CONSTRUCTION.

STEEL STUDS SUPPORTING WALL HUNG PLUMBING FIX. SHALL BE DOUBLED OR NOT LESS THAN 20 GAUGE (FBC 2517.5.1.1). A HORIZONTAL MEMBER SECURELY FASTENED NOT LESS THAN TWO STUDS SHALL BE INSTALLED FOR THE ATTACHMENT OF EACH WALL HUNG PLUMBING FIX.	FLAME SPREAD FOR INSULATION MAX. 25, SMOKE DEVELOPED MAX. 450 PER RESIDENTIAL FBC 302.10 FLAME SPREAD FOR WALL CEILING FINISHES MAX. 200, SMOKE DEVELOPED MAX. 450 PER RESIDENTIAL FBC 302.9.

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ARKO ARCHITECTURE, LLC
2490 CORAL WAY, SUITE 301
MIAMI, FL 33145
edgardo@thearkogroup.com
eduardo@thearkogroup.com
www.thearkogroup.com
p: 305.400.8133

ADDITION & RESTORATION FOR:
MAZZINI & MELINE RESIDENCE
10300 SW 70TH AVE, MIAMI, FL 33156

Digitally signed by Edgardo J Betancourt Santiago
Date: 2023.08.24 16:08:36-04'00'

STATE OF FLORIDA
EDGARDO J BETANCOURT SANTIAGO
AR99726
REGISTERED ARCHITECT

DRAWN BY		
DATE	MV	PROJECT
03.29.23	CHECKED BY	22-84
	EV	

REVISIONS

WALL TYPES & ROOF DETAILS

CONSTRUCTION DOCUMENTS

A-5.01

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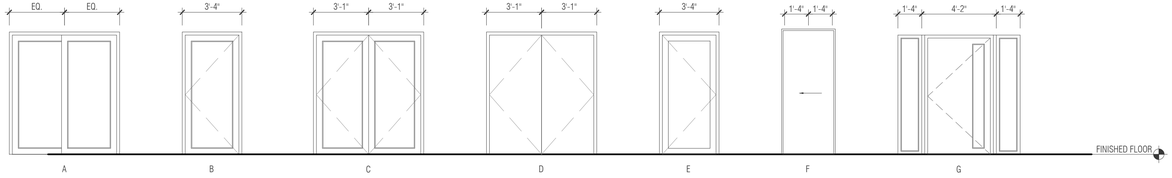
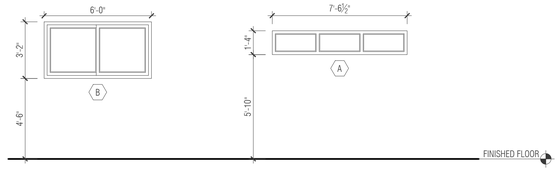


DOOR TYPE ELEVATIONS

SCALE: 1/4" = 1'-0"



WINDOW TYPE ELEVATIONS

SCALE: 1/4" = 1'-0"

DOOR SCHEDULE

MARK	ROOM NAME	DOOR					FRAME	FIRE RATING	NOTES
		SIZE			MATL	EL	GLZ	MATL		
		W	HT	THK					
01	LIVING-DINING	6'-0"	6'-10"	1¾"	ALUM./GLASS	A	7/16"	ALUM		CATEGORY II SAFETY GLASS
02	HALL	3'-10"	6'-10"	1¾"	ALUM./GLASS	B	7/16"	ALUM		CATEGORY II SAFETY GLASS
03	EXIT BEDROOM 3	6'-2"	6'-10"	1¾"	ALUM./GLASS	C	7/16"	ALUM		CATEGORY II SAFETY GLASS
04	EXIT BATHROOM 3	3'-4"	6'-10"	1¾"	ALUM./GLASS	B	7/16"	ALUM		CATEGORY II SAFETY GLASS
05	EXIT KITCHENETTE	3'-4"	6'-10"	1¾"	ALUM./GLASS	B	7/16"	ALUM.		CATEGORY II SAFETY GLASS
06	CLOSET	2'-2"	6'-10"	1⅜"	HC	E	-	WD		
07	CLOSET	2'-2"	6'-10"	1⅜"	HC	E	-	WD		
08	BATHROOM 3	3'-2"	6'-10"	1⅜"	SC	E	-	WD		
09	GARAGE	3'-4"	6'-10"	1⅜"	HC	E	-	WD	20 MIN	PROVIDE SELF CLOSING SPRING HINDGES
10	BEDROOM 3	3'-2"	6'-10"	1⅜"	SC	E	-	WD		
11	LAUNDRY ROOM	3'-4"	6'-10"	1⅜"	SC	F	-	WD		
12	WALK-IN CLOSET	3'-2"	6'-10	1⅜"	HC	E	-	WD		
13	EXIT FOYER	6'-10"	6'-10"	1¾"	ALUM./GLASS	G	7/16"	ALUM.		CATEGORY II SAFETY GLASS

1. ALL DOOR HARDWARE TO HAVE LEVER HANDLES (SINGLE ACTION RELEASE W/OUT INTERIOR KEY LOCKS), MAXIMUM CLOSER PULL FORCE TO BE 5 LB. AND TO COMPLY WITH F.B.C., CH. 11.
2. CONTRACTOR IS RESPONSIBLE FOR PERFORMING ANY WORK NECESSARY TO COMPLETE THE PROPER INSTALLATION OF DOORS, FRAMES, AND HARDWARE.
3. ALL DOORS TO HAVE (3) SILENCERS & THOSE W/O CLOSERS TO RECEIVE FLOOR / WALL STOPS.
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WINDOW SCHEDULE

MARK	SIZE		TYPE	MATL	GLZ	SHGC = U FACTOR USED FOR ENERGY CALCS
	W	HT				
A	7'-6"	1'-4"	FIXED	ALUM	9/16" SAFETY GLASS CAT. II	0.5
B	6'-0"	3'-2"	HORIZONTAL ROLLER	ALUM	9/16" SAFETY GLASS CAT. II	0.5

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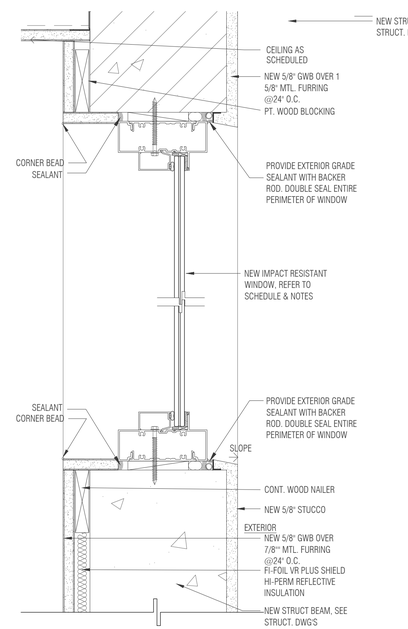
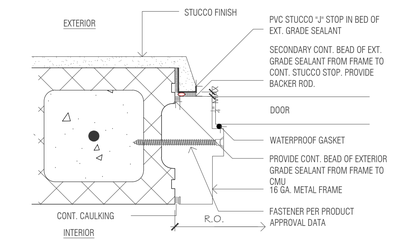


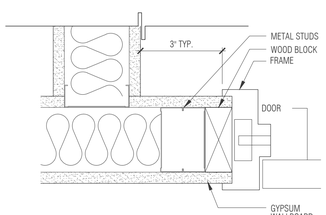
4 WINDOW SILL & HEADER

NTS



2 EXT. DOOR JAMB DETAIL

NTS



1 INT. DOOR JAMB/HEADER

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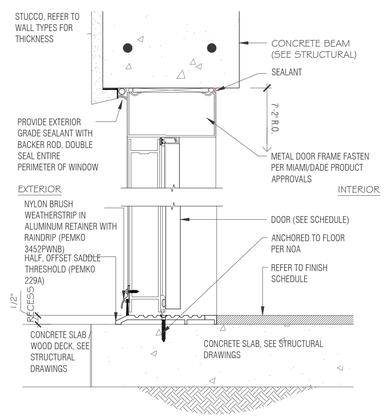

3 DOOR DETAIL

NTS

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DRAWN BY
DATE 03.29.23 MV PROJECT 22-84
CHECKED BY EV

REVISIONS

DOOR/ WINDOW SCHEDULES AND DETAILS

CONSTRUCTION DOCUMENTS

A-6.01

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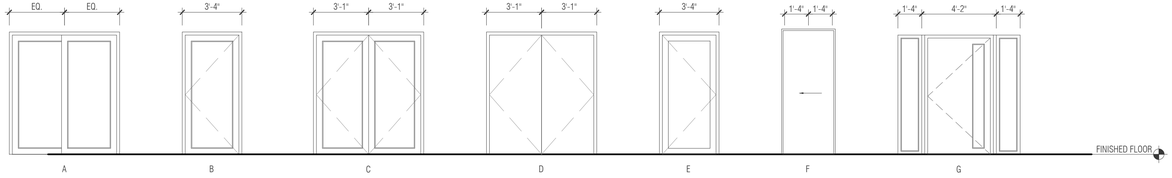

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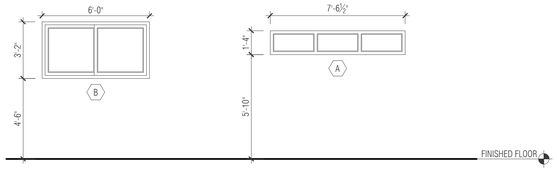

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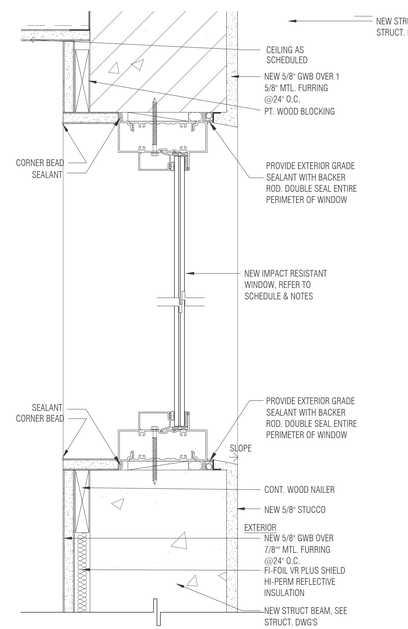

4 WINDOW SILL & HEADER

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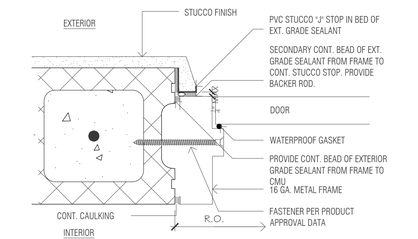

2 EXT. DOOR JAMB DETAIL

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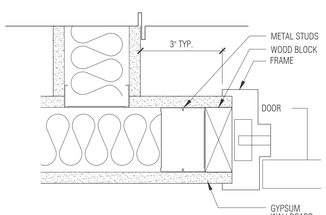

1 INT. DOOR JAMB/HEADER

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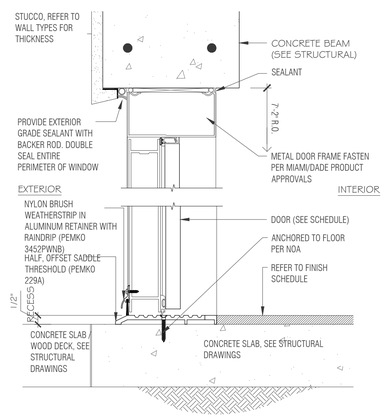

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Date: 2024.03.18 18:02:01-04'00'

STATE OF FLORIDA
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AR99726
REGISTERED ARCHITECT

DRAWN BY MV
DATE 03.29.23
CHECKED BY EV
PROJECT 22-84

REVISIONS

1 03.18.24 BUILDING DEPARTMENT COMMENTS

DOOR/ WINDOW SCHEDULES AND DETAILS

CONSTRUCTION DOCUMENTS

A-6.01

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G2 Consulting Group, Inc.
JOAQUIN MONTESINO,P.E
9725 SW 4 th TERR., Miami, Florida 33174
PH (786)2940032, Fax (786)2940032
Lic # 69969

BY:JM DATE1/3024 SUBJECT:10300 sw 70TH ave.. SHEET No.1OF
CHECK BY:JM DATE:1/30/24 PINECREST, FLORIDA JOB #:2001

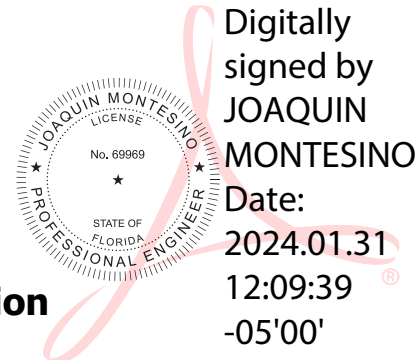
CALCULATION TITLE SHEET

Job Name : ADDITION & RESTORATION

Client :
10300 SW70TH AVE.
PINECREST, FLORIDA 33156

Job Type :RESIDENTIAL

Building Code : .F.B.C.-2020-Edition



Building Dept : VILLAGE OF PINECREST

The undersigned hereby certifies that the enclosed structural calculations were prepared either by myself or under my direct supervision. For the computer runs, if any, input was prepared and the output data analyzed and interpreted in the same manner prior preparation of the construction documents. Therefore, I accept professional responsibility for my interpretation of any computer outputs.

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G2 Consulting Group,Inc.
Joaquin Montesino, P.E
9725 SW 4 th TERR., Miami, Florida 33174
PH (786)2940032, Fax (786)2940032
Lic # 69969,CA 25882

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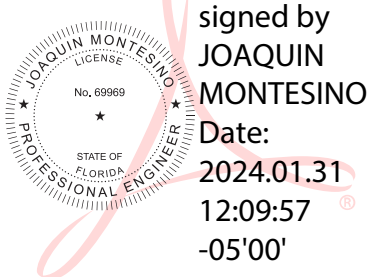
II	**DESIGN CMU WALL**	10



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lic # 69969 CA 25882

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Sheet No:_____ of____
Calc. by: JM Date:3/10/23
Checked by :JM Date:3/10/23

WIND LOADS PER ASCE7-16

EXPOSURE :C Roof angle: (7Deg.) **< θ < =** (27 deg)

Roof angle: $slope := \frac{4}{12}$ $\theta := atan(slope)$ $\theta = 18.435 \cdot deg$

$V := 175$ mph Mean hight $h := 9.5ft$

Topographic Factor $\alpha := 9.5$ $Z_g := 900$

$Kzt := 1.0$

Velocity pressure Exposure

$$Kz := if\left[(h < 15ft), \left[2.01 \cdot \left(\frac{15}{Z_g}\right)^{\frac{2}{\alpha}}\right], \left[2.01 \cdot \left(\frac{\frac{h}{ft}}{Z_g}\right)^{\frac{2}{\alpha}}\right]\right]$$ $Kz = 0.85$

Wind Directionality Factor

$Kd := 0.85$

Ground Elevation Factor

$Ke := 1$

Basic Velocity Pressure

$qh := \left[0.00256 \cdot Kz \cdot Kzt \cdot Kd \cdot [Ke \cdot (V)]^2\right] \cdot psf$

$qh = 56.57 \cdot psf$

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Job:meline
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"Wood jack trusses" $\frac{h}{B} \le 0.5$

zone : 1 , Negative without overhang

$Aj := \frac{(8ft)^2}{3}$ $Aj = 21.333\,ft^2$ $Gcpi := -0.18$

$$Gcp := \begin{cases} -1.3 & \text{if } Aj \le 20ft^2 \\ \left(-1.8584 + 0.4292 \cdot \log\left(\frac{Aj}{ft^2}\right)\right) & \text{if } 20ft^2 \le Aj \le 100ft^2 \\ -1.0 & \text{if } Aj \ge 100ft^2 \end{cases}$$

$Gcp = -1.288$

$P1j := [qh \cdot [Gcp - (-Gcpi)] + 10psf] \cdot 0.6$ $P1j = -43.825 \cdot psf$ (net wind pressure)

zone2r : Negative without overhang

$$Gcp := \begin{cases} -2.4 & \text{if } Aj \le 10ft^2 \\ -3.2455 + 0.8455 \cdot \log\left(\frac{Aj}{ft^2}\right) & \text{if } 10ft^2 \le Aj \le 200ft^2 \\ -1.3 & \text{if } Aj \ge 200ft^2 \end{cases}$$ $Gcpi := -0.18$

$Gcp = -2.122$

$P2j := [qh \cdot [Gcp - (-Gcpi)] + 10psf] \cdot 0.6$ $P2j = -72.127 \cdot psf$ (net wind pressure)

zone3,2e : Negative without overhang

$Gcpi := -0.18$

$$Gcp := \begin{cases} -1.8 & \text{if } Aj \le 10ft^2 \\ -2.3380 + 0.5380 \cdot \log\left(\frac{Aj}{ft^2}\right) & \text{if } 10ft^2 \le Aj \le 200ft^2 \\ -1.1 & \text{if } Aj \ge 200ft^2 \end{cases}$$

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Checked by :JM Date:3/10/23

$Gcp = -1.623$

$P3j := [qh \cdot [Gcp - (-Gcpi)] + 10psf] \cdot 0.6$ $P3j = -55.196 \cdot psf$ (net wind pressure)

"Wood trusses"

zone : 1 , Negative without overhang

$Aj := \frac{(12.67ft)^2}{3}$ $Aj = 53.51\ ft^2$ $Gcpi := -0.18$

$$Gcp := \begin{cases} -1.3 & \text{if } Aj \le 20ft^2 \\ \left(-1.8584 + 0.4292 \cdot \log\left(\frac{Aj}{ft^2}\right)\right) & \text{if } 20ft^2 \le Aj \le 100ft^2 \\ -1.0 & \text{if } Aj \ge 100ft^2 \end{cases}$$

$Gcp = -1.117$

$P1j := [qh \cdot [Gcp - (-Gcpi)] + 10psf] \cdot 0.6$ $P1j = -38.007 \cdot psf$ (net wind pressure)

zone2r : Negative without overhang

$$Gcp := \begin{cases} -2.4 & \text{if } Aj \le 10ft^2 \\ -3.2455 + 0.8455 \cdot \log\left(\frac{Aj}{ft^2}\right) & \text{if } 10ft^2 \le Aj \le 200ft^2 \\ -1.3 & \text{if } Aj \ge 200ft^2 \end{cases} \quad Gcpi := -0.18$$

$Gcp = -1.784$

$P2j := [qh \cdot [Gcp - (-Gcpi)] + 10psf] \cdot 0.6$ $P2j = -60.665 \cdot psf$ (net wind pressure)

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zone3,2e : Negative without overhang

$Gcpi := -0.18$

$$Gcp := \begin{cases} -1.8 & \text{if } Aj \le 10ft^2 \\ -2.3380 + 0.5380 \cdot \log\left(\frac{Aj}{ft^2}\right) & \text{if } 10ft^2 \le Aj \le 200ft^2 \\ -1.1 & \text{if } Aj \ge 200ft^2 \end{cases}$$

$Gcp = -1.408$

$P3j := [qh \cdot [Gcp - (-Gcpi)] + 10psf] \cdot 0.6$ $P3j = -47.903 \cdot psf$ (net wind pressure)

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Wall Pressure for building h<60ft Roof h =7'-10"

Negative :zone4

$$A := \frac{(7.83\,ft)^2}{3} \qquad A = 20.436\,ft^2$$

$$Gcp_4 := -1.2766 + 0.1766 \cdot \log\left(\frac{A}{ft^2}\right) \qquad Gcp_4 = -1.045$$

$$p_4 := qh \cdot \left[Gcp_4 - (-Gcpi)\right] \cdot 0.6 \qquad p_4 = -41.585 \cdot psf$$

Negative : zone5

$$Gcp_5 := -1.7532 + 0.3532 \cdot \log\left(\frac{A}{ft^2}\right) \qquad Gcp_5 = -1.29$$

$$p_5 := qh \cdot \left[Gcp_5 - (-Gcpi)\right] \cdot 0.6 \qquad p_5 = -49.907 \cdot psf$$

positive :zone4 & zone5

$$A := \frac{(7.83\,ft)^2}{3} \qquad A = 20.436\,ft^2$$

$$Gcp_{4.5} := 1.1766 - 0.1766 \cdot \log\left(\frac{A}{ft^2}\right) \qquad Gcp_{4.5} = 0.945$$

$$p_{4.5} := qh \cdot \left[Gcp_{4.5} + (-Gcpi)\right] \cdot 0.6 \qquad p_{4.5} = 38.191 \cdot psf$$

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Door Pressures for building h<60ft

Negative :zone4

$A := 21ft^2$

$Gcp_4 := -1.2766 + 0.1766 \cdot \log\left(\frac{A}{ft^2}\right)$ $\quad Gcp_4 = -1.043$

$p_4 := qh \cdot \left[Gcp_4 - (-Gcpi)\right] \cdot 0.6$ $\quad p_4 = -41.514 \cdot psf$

Negative : zone5

$Gcp_5 := -1.7532 + 0.3532 \cdot \log\left(\frac{A}{ft^2}\right)$ $\quad Gcp_5 = -1.286$

$p_5 := qh \cdot \left[Gcp_5 - (-Gcpi)\right] \cdot 0.6$ $\quad p_5 = -49.765 \cdot psf$

positive :zone4 & zone5

$A := 21ft^2$

$Gcp_{4.5} := 1.1766 - 0.1766 \cdot \log\left(\frac{A}{ft^2}\right)$ $\quad Gcp_{4.5} = 0.943$

$p_{4.5} := qh \cdot \left[Gcp_{4.5} + (-Gcpi)\right] \cdot 0.6$ $\quad p_{4.5} = 38.12 \cdot psf$

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window Pressures for building h<60ft

Negative :zone4

$A := 10ft^2$

$Gcp_4 := -1.2766 + 0.1766 \cdot \log\left(\frac{A}{ft^2}\right)$ $\quad Gcp_4 = -1.1$

$p_4 := qh \cdot \left[Gcp_4 - (-Gcpi)\right] \cdot 0.6$ $\quad p_4 = -43.445 \cdot psf$

Negative : zone5

$Gcp_5 := -1.7532 + 0.3532 \cdot \log\left(\frac{A}{ft^2}\right)$ $\quad Gcp_5 = -1.4$

$p_5 := qh \cdot \left[Gcp_5 - (-Gcpi)\right] \cdot 0.6$ $\quad p_5 = -53.628 \cdot psf$

positive :zone4 & zone5

$A := 10ft^2$

$Gcp_{4.5} := 1.1766 - 0.1766 \cdot \log\left(\frac{A}{ft^2}\right)$ $\quad Gcp_{4.5} = 1$

$p_{4.5} := qh \cdot \left[Gcp_{4.5} + (-Gcpi)\right] \cdot 0.6$ $\quad p_{4.5} = 40.051 \cdot psf$

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Job:MELINE
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Checked by:JM Date:3/12/23

COMBINED AXIAL LOAD & BENDING COMPRESSION FOR MASONRY WALL:

VERTICAL LOADS :

DEAD LOADS:

$DL := 465lbf$

LIVE LOADS:

$LL := 0lbf$.

ASCE7 – 16

ZONE5 :P=-50psf 8 " cmu

TRY : MASONRY WALL PARTIALLY GROUTED # 6 @48"

Maximun Calculated Axial Loads :

$P := DL + LL$

$P = 465 \cdot lbf$

Calculated Axial Stress:

$fa := \frac{P}{An}$ $An := 2 \cdot 1.25in \cdot 12in$

$An = 30 \cdot in^2$

$fa = 15.5 \cdot psi$

The Allowable Compression Stress is:

$f'm := 1500psi$ $h := 8ft$ $r := 2.66in$

$$Fa := .25 \cdot f'm \cdot \left[\left[1 - \left(\frac{h}{140 \cdot r} \right)^2 \right] \right]$$

$Fa = 350.08 \cdot psi$

Check Compressive Stress in Masonry

$$fb = \frac{Mw \cdot 2}{b \cdot d^2 \cdot j \cdot k}$$

$b := 48in$

$d := 3.81in$

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Concrete Block: Block width: $h_{block} := \mathbf{7.625}in$

web thickness: $t_{web} := \mathbf{1}in$

Shell thickness: $t_{fs} := \mathbf{1.25}in$

Block cell width: $b_{cell} := 8in - 2 \cdot t_{web}$ $b_{cell} = 6 \cdot in$

Proposed spacing: $Spacing := 48in$ $No\_R\_Cell := 1$

Height of Wall: $h := 8ft$ $Ac := \left[(Spacing) \cdot t_{fs}\right] + \left[\left(\frac{h_{block}}{2} - t_{fs}\right) \cdot \left(b_{cell} + t_{web}\right)\right] \cdot No\_R\_Cell$

$Ac = 77.937 \cdot in^2$

$As := .44in^2$

$Es := 29000000psi$ $Em := 900 \cdot f'm$

$\rho := \frac{As}{Ac}$

$\rho = 5.646 \times 10^{-3}$

$n := \frac{Es}{Em}$

$n = 21.481$

$\rho \cdot n = 0.121$

$P := 50psf$

$w := Spacing \cdot P$

$w = 200 \cdot plf$ $l := 8ft$

$Mw := \frac{1}{8} \cdot w \cdot l^2$

$Mw = 1600 \cdot lbf \cdot ft$

$k := \sqrt{2 \cdot n \cdot \rho + (n \cdot \rho)^2} - n \cdot \rho$

$k = 0.386$

$j := 1 - \frac{k}{3}$

$Fb := \left(\frac{1}{3}\right) \cdot f'm$

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$j = 0.871$

$fb := \left(\frac{Mw \cdot 2}{b \cdot d^2 \cdot j \cdot k}\right)$

$fb = 163.883 \cdot psi$

$Fb = 500 \cdot psi$

$\left(\left(\frac{fa}{Fa} + \frac{fb}{Fb}\right)\right) = 0.372 \quad < 1.0$

$Check := if\left[\left(\frac{fa}{Fa} + \frac{fb}{Fb}\right) > 1.0, "NO\ GOOD", "OK"\right]$

$Check = "OK"$

$\frac{fb}{Fb} = 0.328$

CHECK BARS TENSION

$M_w := \frac{1}{8} \cdot w_1 \cdot l^2$ $\quad w_1 := 50psf$ $\quad l := 8ft$ $\quad F_s := 32ksi$ $\quad d := 3.81in$

$M_w = 400 \cdot lbf \cdot \frac{ft}{ft}$

$A_{s'} := \frac{M_w}{j \cdot d \cdot F_s}$ $\quad A_{s'} = 0.045 \cdot \frac{in^2}{ft}$ $\quad A_s := .44in^2$

SPACING OF BARS

$S := \frac{A_s}{A_{s'}}$ $\quad S = 116.859 \cdot in$

Zone 5 :Used # 6 @ 48"

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COMBINED AXIAL LOAD & BENDING COMPRESSION FOR MASONRY WALL:

VERTICAL LOADS :

DEAD LOADS:

$DL := 465lbf$

LIVE LOADS:

$LL := 0lbf$.

ASCE7 – 16

ZONE4 :P=-41.6.psf 8 " cmu

TRY : MASONRY WALL PARTIALLY GROUTED # 6 @48"

Maximun Calculated Axial Loads :

$P := DL + LL$

$P = 465 \cdot lbf$

Calculated Axial Stress:

$fa := \frac{P}{An}$ $An := 2 \cdot 1.25in \cdot 12in$

$An = 30 \cdot in^2$

$fa = 15.5 \cdot psi$

The Allowable Compression Stress is:

$f'm := 1500psi$ $h := 8ft$ $r := 2.66in$

$$Fa := .25 \cdot f'm \cdot \left[\left[1 - \left(\frac{h}{140 \cdot r} \right)^2 \right] \right]$$

$Fa = 350.08 \cdot psi$

Check Compressive Stress in Masonry

$$fb = \frac{Mw \cdot 2}{b \cdot d^2 \cdot j \cdot k}$$

$b := 48in$

$d := 3.81in$

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Checked by:JM Date:3/12/23

Concrete Block:

Block width: $h_{block} := \mathbf{7.625}in$

web thickness: $t_{web} := \mathbf{1}in$

Shell thickness: $t_{fs} := \mathbf{1.25}in$

Block cell width: $b_{cell} := 8in - 2 \cdot t_{web}$ $b_{cell} = 6 \cdot in$

Proposed spacing: $Spacing := 48in$ $No\_R\_Cell := 1$

Height of Wall: $h := 8ft$

$$Ac := \left[(Spacing) \cdot t_{fs}\right] + \left[\left(\frac{h_{block}}{2} - t_{fs}\right) \cdot \left(b_{cell} + t_{web}\right)\right] \cdot No\_R\_Cell$$

$Ac = 77.937 \cdot in^2$

$As := .44in^2$

$Es := 29000000psi$ $Em := 900 \cdot f'm$

$$\rho := \frac{As}{Ac}$$

$\rho = 5.646 \times 10^{-3}$

$$n := \frac{Es}{Em}$$

$n = 21.481$

$\rho \cdot n = 0.121$

$P := 41.6psf$

$w := Spacing \cdot P$

$w = 166.4 \cdot plf$ $l := 8ft$

$$Mw := \frac{1}{8} \cdot w \cdot l^2$$

$Mw = 1331 \cdot lbf \cdot ft$

$$k := \sqrt{2 \cdot n \cdot \rho + (n \cdot \rho)^2} - n \cdot \rho$$

$k = 0.386$

$$j := 1 - \frac{k}{3}$$

$$Fb := \left(\frac{1}{3}\right) \cdot f'm$$

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Job:MELINE
Sheet No:_____ of _____
Calc by:JM Date3/12/23
Checked by:JM Date:3/12/23

$j = 0.871$

$fb := \left(\frac{Mw \cdot 2}{b \cdot d^2 \cdot j \cdot k} \right)$

$Fb = 500 \cdot psi$

$\left(\left(\frac{fa}{Fa} + \frac{fb}{Fb} \right) \right) = 0.317 \quad < 1.0$

$fb = 136.351 \cdot psi$

$Check := if\left[\left(\frac{fa}{Fa} + \frac{fb}{Fb} \right) > 1.0, "NO\ GOOD", "OK" \right]$

$\frac{fb}{Fb} = 0.273$

$Check = "OK"$

CHECK BARS TENSION

$M_w := \frac{1}{8} \cdot w_l \cdot l^2$ $\quad w_l := 41.6psf$ $\quad l := 8ft$ $\quad F_s := 32ksi$ $\quad d := 3.81in$

$M_w = 333 \cdot lbf \cdot \frac{ft}{ft}$

$A_{s'} := \frac{M_w}{j \cdot d \cdot F_s}$ $\quad A_{s'} = 0.038 \cdot \frac{in^2}{ft}$ $\quad A_s := .44in^2$

SPACING OF BARS

$S := \frac{A_s}{A_{s'}}$ $\quad S = 140.456 \cdot in$

Zone 4 :Used # 6 @ 48"

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MIAMI-DADE COUNTY
PRODUCT CONTROL SECTION
11805 SW 26 Street, Room 208
Miami, Florida 33175-2474
T (786) 315-2590 F (786) 315-2599
www.miamidade.gov/economy

DEPARTMENT OF REGULATORY AND ECONOMIC RESOURCES (RER)
BOARD AND CODE ADMINISTRATION DIVISION

NOTICE OF ACCEPTANCE (NOA)

Nu-Vue Industries, Inc.
1055 East 29 Street
Hialeah, Florida 33013

SCOPE: This NOA is being issued under the applicable rules and regulations governing the use of construction materials. The documentation submitted has been reviewed and accepted by Miami-Dade County RER-Product Control Section to be used in Miami Dade County and other areas where allowed by the Authority Having Jurisdiction (AHJ).

This NOA shall not be valid after the expiration date stated below. The Miami-Dade County Product Control Section (In Miami Dade County) and/or the AHJ (in areas other than Miami Dade County) reserve the right to have this product or material tested for quality assurance purposes. If this product or material fails to perform in the accepted manner, the manufacturer will incur the expense of such testing and the AHJ may immediately revoke, modify, or suspend the use of such product or material within their jurisdiction. RER reserves the right to revoke this acceptance if it is determined by Miami-Dade County Product Control Section that this product or material fails to meet the requirements of the applicable building code.

This product is approved as described herein and has been designed to comply with the Florida Building Code, including the High Velocity Hurricane Zone.

DESCRIPTION: Series NVTA, NVTAS, NVBH, NVUH, NVRT and NVTH Steel Wood Connectors

APPROVAL DOCUMENT: Drawing No. **NU-2**, titled "NVTA and NVTAS, NVBH 24 and NVUH 26, NVRT and NVTH", sheets 1 through 4 of 4, dated 06/25/2020, prepared by Nu-Vue Industries, Inc., signed and sealed by Vipin N. Tolat, P.E., bearing the Miami-Dade County Product Control revision stamp with the Notice of Acceptance (NOA) number and expiration date by the Miami-Dade County Product Control Section.

MISSILE IMPACT RATING: None

LABELING: A permanent mark with the manufacturer's name, acronym or logo is to be located on each unit. A permanent label with the manufacturer's name or logo, city, state, model/series, and the statement reading 'Miami-Dade County Product Control Approved' is to be located on each packaging carton.

RENEWAL of this NOA shall be considered after a renewal application has been filed and there has been no change in the applicable building code negatively affecting the performance of this product.

TERMINATION of this NOA will occur after the expiration date or if there has been a revision or change in the materials, use, and/or manufacture of the product or process. Misuse of this NOA as an endorsement of any product, for sales, advertising or any other purposes shall automatically terminate this NOA. Failure to comply with any section of this NOA shall be cause for termination and removal of NOA.

ADVERTISEMENT: The NOA number preceded by the words Miami-Dade County, Florida, and followed by the expiration date may be displayed in advertising literature. If any portion of the NOA is displayed, then it shall be done in its entirety.

INSPECTION: A copy of this entire NOA shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at the request of the Building Official.

This NOA **renews** and **revises NOA # 17-0802.09** and consists of this page 1 and evidence pages E1, E-2 and E3, as well as approval document mentioned above.

The submitted documentation was reviewed by **Carlos M. Utrera, P.E.**

MIAMI-DADE COUNTY APPROVED

NOA No: 20-0519.03
Expiration Date: July 30, 2025
Approval Date: July 30, 2020
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Nu-Vue Industries, Inc.

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

1. EVIDENCE SUBMITTED UNDER PREVIOUS NOAs

A. DRAWINGS

1. Drawing No. **NU-2**, titled "NVTA and NVTAS, NVBH 24 and NVUH 26, NVRT and NVTH", sheets 1 through 4 of 4, dated 04/15/2015, prepared by Nu-Vue Industries, Inc., signed and sealed by Vipin N. Tolat, P.E.

B. TEST *"Submitted under NOA No. 05-0701.04"*

Test reports on wood connectors per ASTM D1761 by Product Testing, Inc., signed and sealed by C. R. Caudel, P.E. and S. E. Black, P.E.

	Report No.	Wood Connector	Direction	Date
1.	PT 02-4073	NVTA	Upward	11/06/02
2.	PT 02-4075	NVTA	Upward	11/07/02
3.	PT 02-4074	NVTA	Upward	11/06/02
4.	PT 02-3938	NVTA	Upward	08/06/02
5.	PT 03-4177	NVRT36	Upward	02/03/03
6.	PT 03-4202	NVRT36-T	Upward	02/19/03
7.	PT 03-4271	NVRT36-T	Upward	03/27/03
8.	PT 03-4270	NVRT24-T	Upward	03/27/03
9.	PT 02-4095	NVUH26	Up & Downward	01/17/03
10.	PT 02-4096	NVBH24	Up &Downward	12/03/02
11.	31-22456.0002	NVTA & NVTAS	Lateral	07/06/02
12.	PT 04-4698	NVTH24	Upward Parallel/Perpendicular	04/15/04
13.	PT 04-5036	NVTH24	Upward Load	12/10/04

C. CALCULATIONS *"Submitted under NOA No. 04-1202.01"*

Report of Design Capacities prepared by Vipin N. Tolat, P.E.

	Product Model	No. of Pages	Date	Signature
1.	NVBM24	7 through 8	05/05/03	V. N. Tolat, P.E
2.	NVRT	9 through 14	05/05/03	V. N. Tolat, P.E.
3.	NVTA & NVTAS	1 through 6	05/05/03	V. N. Tolat, P.E.
4.	NVTA & NVTAS	1 through 14	02/06/03	V. N. Tolat, P.E.
5.	NVRT	15 through 15	07/07/03	V. N. Tolat, P.E.

D. QUALITY ASSURANCE

1. Miami-Dade Department of Regulatory and Economic Resources (RER)

E. MATERIAL CERTIFICATIONS

1. None.

Carlos M. Utrera, P.E.
Product Control Examiner
NOA No: 20-0519.03
Expiration Date: July 30, 2025
Approval Date: July 30, 2020

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Nu-Vue Industries, Inc.

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

F. STATEMENTS

1. Statement letter of code conformance to 2010 and 5th (2014) edition of the FBC, issued by Vipin N. Tolat, P.E., dated 04/29/2015, signed and sealed by Vipin N. Tolat, P.E.

"Submitted under NOA No. 04-1202.01"

2. No Financial Interest and code compliance letter issued by Vipin N. Tolat, P.E., on 03/26/2003 signed and sealed by Vipin N. Tolat, P.E.

2. EVIDENCE SUBMITTED UNDER NOA # 17-0802.09

A. DRAWINGS

1. Drawing No. **NU-2**, titled "NVTA and NVTAS, NVBH 24 and NVUH 26, NVRT and NVTH", sheets 1 through 4 of 4, dated 07/17/2017, prepared by Nu-Vue Industries, Inc., signed and sealed by Vipin N. Tolat, P.E.

B. TEST

1. None.

C. CALCULATIONS

1. None.

D. QUALITY ASSURANCE

1. Miami-Dade Department of Regulatory and Economic Resources (RER)

E. MATERIAL CERTIFICATIONS

1. None.

F. STATEMENTS

1. Statement letter of code conformance to the 5th Edition (2014) and 6th Edition (2017) FBC and of no financial interest, issued by Vipin N. Tolat, P.E., dated 07/25/2017, signed and sealed by Vipin N. Tolat, P.E.

Carlos M. Utrera, P.E.
Product Control Examiner
NOA No: 20-0519.03
Expiration Date: July 30, 2025
Approval Date: July 30, 2020

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Nu-Vue Industries, Inc.

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

3. NEW EVIDENCE SUBMITTED

A. DRAWINGS

1. Drawing No. **NU-2**, titled "NVTA and NVTAS, NVBH 24 and NVUH 26, NVRT and NVTH", sheets 1 through 4 of 4, dated 06/25/2020, prepared by Nu-Vue Industries, Inc., signed and sealed by Vipin N. Tolat, P.E.

B. TEST

1. None.

C. CALCULATIONS

1. Verification calculations for compliance with the ASTM D7147-05 and ASTM D7147-11 prepared by Vipin N. Tolat, P.E. dated 04/28/2020, signed and sealed by Vipin N. Tolat, P.E.

D. QUALITY ASSURANCE

1. Miami-Dade Department of Regulatory and Economic Resources (RER)

E. MATERIAL CERTIFICATIONS

1. None.

F. STATEMENTS

1. Statement letter of code conformance to the 6th Edition (2017) and the 7th Edition (2020) FBC and of no financial interest, issued by Vipin N. Tolat, P.E., dated 06/25/2020, signed and sealed by Vipin N. Tolat, P.E.

Carlos M. Utrera, P.E.
Product Control Examiner
NOA No: 20-0519.03
Expiration Date: July 30, 2025
Approval Date: July 30, 2020

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TABLE 1

Truss Anchors NVTA and Riveted Truss Anchors with Seat NVTAS

H Length (in)	Product Code		Gauge seat	Gauge strap
16	NVTA–16	NVTAS 212	20	14
18	NVTA–18	NVTAS 214	20	14
20	NVTA–20	NVTAS 216	20	14
22	NVTA–22	NVTAS 218	20	14
24	NVTA–24	NVTAS 220	20	14
26	NVTA–26	NVTAS 222	20	14
28	NVTA–28	NVTAS 224	20	14
30	NVTA–30	NVTAS 226	20	14
36	NVTA–36	NVTAS 232	20	14
48	NVTA–48	NVTAS 244	20	14

No. of Fasteners each strap 10d	Maximum Allowable Load (lbs)			
	Uplift Single Strap	Uplift Double Straps	L1 Single & Double Straps	L2 Single & Double Straps
5	757	1514	250	500
6	805	1610	250	500
7	854	1708	250	500
8	902	*1804	250	500
9	951	*1902	250	500
10	999	*1998	250	500
11	1048	*2096	250	500
12	1096	*2192	250	500
13	1145	*2290	250	500
14	1193	*2290	250	500

*Note: For 8 or more nails per strap, use double truss for double straps.

PRODUCT REVISED
as complying with the Florida Building Code
NOA-No. 20-0519.03
Expiration Date 07/30/2025
By
Miami-Dade Product Control

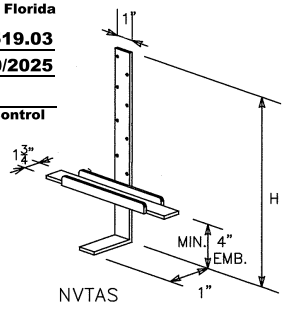
TABLE 2

Truss Anchors NVTA and Riveted Truss Anchors with Seat NVTAS

H Length (in)	Product Code		Gauge seat	Gauge strap
16	NVTA–16	NVTAS 212	20	14
18	NVTA–18	NVTAS 214	20	14
20	NVTA–20	NVTAS 216	20	14
22	NVTA–22	NVTAS 218	20	14
24	NVTA–24	NVTAS 220	20	14
26	NVTA–26	NVTAS 222	20	14
28	NVTA–28	NVTAS 224	20	14
30	NVTA–30	NVTAS 226	20	14
36	NVTA–36	NVTAS 232	20	14
48	NVTA–48	NVTAS 244	20	14

No. of Fasteners each strap 10d x 1.5"	Maximum Allowable Load (lbs)			
	Uplift Single Strap	Uplift Double Straps	L1 Single & Double Straps	L2 Single & Double Straps
5	1032	2236	250	500
6	1127	2254	385	565
7	1136	2272	520	630
8	1144	*2288	520	630
9	1153	*2306	520	630
10	1161	*2322	520	630
11	1170	*2340	520	630
12	1178	*2356	520	630
13	1187	*2374	520	630

*Note: For 8 or more nails per strap, use double truss for double straps.



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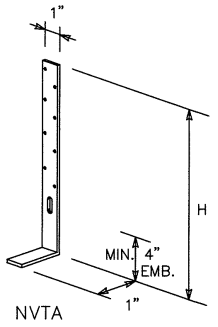
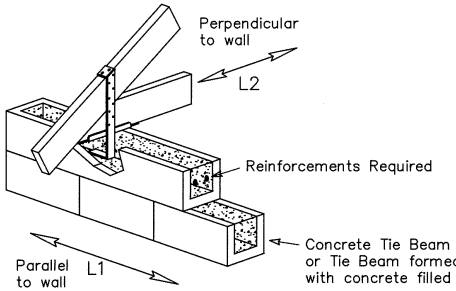
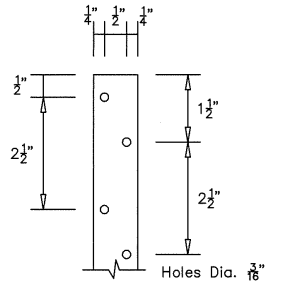


NVTA





NVTA, NVTAS

General Notes:

1. Steel shall conform to ASTM A653, SS grade 33, min. yield 33 ksi, min. tensile strength 45 ksi and min. galvanized coating of G 60 per ASTM A653.
2. Allowable loads and fasteners are based on NDS 2015.
3. Design loads are for S. Pine, specific gravity 0.55. Design loads for other species shall be adjusted per NDS 2015.
4. Allowable uplift loads have been adjusted for load duration factor CD of 1.6. Allowable gravity loads have been adjusted for CD values of 1.0, per NDS 2015. Design loads do not include 33% increase for steel and concrete.
5. Concrete in Tie beams shall be min. of 2500 psi. Concrete Masonry, Grout and mortar in concrete masonry shall be min. of 1500 psi. Concrete masonry shall comply with ASTM C90.
6. Combined load of Uplift, L1 and L2 shall satisfy the following equation.

$$\frac{\text{Actual Uplift}}{\text{Allowable Uplift}} + \frac{\text{Actual L1}}{\text{Allowable L1}} + \frac{\text{Actual L2}}{\text{Allowable L2}} \leq 1.0$$

7. Allowable loads are based on 1½" thick wood members unless otherwise noted.
8. All designs Conform to FBC 2017. ASTM D1761 and ASTM D7147.

VIPIN N. TOLAT, PE (CIVIL)
FL. REG. # 12847
15123 LANTERN CREEK LANE
HOUSTON, TX 77068

5/7/2020

Nu-Vue Industries, Inc.
1053–1059 East 29 Street
Hialeah, Florida 33013
PHONE: (305) 694–0397
FAX: (305) 694–0398

NVTA AND NVTAS TRUSS ANCHORS

DWG #:	Sheet:	Date:
NU-2	1 of 4	May 5, 2020

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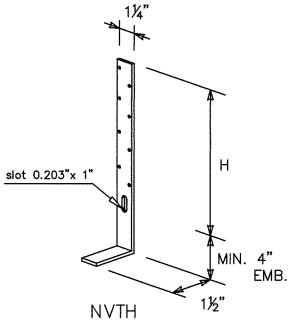
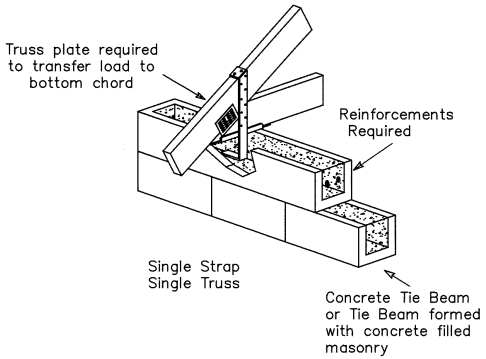
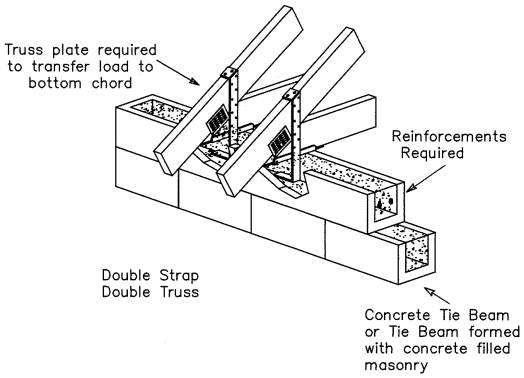
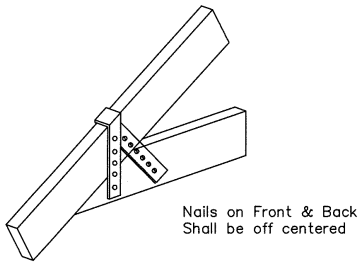








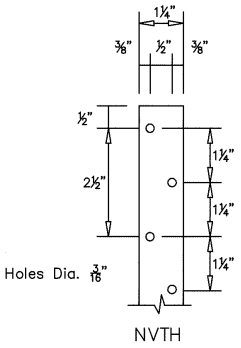
For General Notes, see sheet 1

TABLE 7

Truss Anchors NVTH

H Length (in)	Product Code	Gauge seat	Gauge strap
12	NVTH–16	18	14
14	NVTH–18	18	14
16	NVTH–20	18	14
18	NVTH–22	18	14
20	NVTH–24	18	14
22	NVTH–26	18	14
24	NVTH–28	18	14
26	NVTH–30	18	14
32	NVTH–36	18	14
44	NVTH–48	18	14

No. of Fasteners in each Strap 10d x 1.5"	Maximum Uplift Loads (lbs)	
	Single Strap on Single Truss	Double Straps on Double Truss
5	1032	2064
6	1222	2444
7	1275	2550
8	1329	2658
9	1383	2766
10	1437	2874
11	1490	2980
12	1544	3088
13	1598	3196



PRODUCT REVISED
as complying with the Florida Building Code
NOA-No. 20-0519.03
Expiration Date 07/30/2025
By
Miami-Dade Product Control

VIPIN N. TOLAT, PE (CIVIL)
FL. REG. # 12847
15123 LANTERN CREEK LANE
HOUSTON, TX 77068

5/7/2020

Nu–Vue Industries, Inc.
1053–1059 East 29 Street
Hialeah, Florida 33013
Phone: (305) 694–0397
Fax: (305) 694–0398

NVTH ANCHORS

DWG #:	Sheet:	Date:	Revisions:
NU–2	4 of 4	May 5, 2020	

MIAMI-DADE COUNTY
PRODUCT CONTROL SECTION
11805 SW 26 Street, Room 208
Miami, Florida 33175-2474
T (786) 315-2590 F (786) 315-2599
www.miamidade.gov/economy

DEPARTMENT OF REGULATORY AND ECONOMIC RESOURCES (RER)
BOARD AND CODE ADMINISTRATION DIVISION

NOTICE OF ACCEPTANCE (NOA)

Nu-Vue Industries, Inc.
1055 East 29th Street
Hialeah, Florida 33013

SCOPE: This NOA is being issued under the applicable rules and regulations governing the use of construction materials. The documentation submitted has been reviewed and accepted by Miami-Dade County RER-Product Control Section to be used in Miami Dade County and other areas where allowed by the Authority Having Jurisdiction (AHJ).

This NOA shall not be valid after the expiration date stated below. The Miami-Dade County Product Control Section (In Miami Dade County) and/or the AHJ (in areas other than Miami Dade County) reserve the right to have this product or material tested for quality assurance purposes. If this product or material fails to perform in the accepted manner, the manufacturer will incur the expense of such testing and the AHJ may immediately revoke, modify, or suspend the use of such product or material within their jurisdiction. RER reserves the right to revoke this acceptance if it is determined by Miami-Dade County Product Control Section that this product or material fails to meet the requirements of the applicable building code.

This product is approved as described herein and has been designed to comply with the Florida Building Code, including the High Velocity Hurricane Zone.

DESCRIPTION: Series NVSNP, NV/NVTH, NVTHS, NVHC, NVSTA and NVHTA Steel Wood Connectors

APPROVAL DOCUMENT: Drawing No. **NU-5**, titled "Skewed Nail Plate, NV358 & NV458 with Double NVTH Straps, NVTH/NVTHS Anchors & NVHC Hurricane Clips and NVSTA & NVHTA Heavy Duty Anchors with Seat", sheets 1 through 4 of 4, dated 06/25/2020, prepared by Nu-Vue Industries, Inc., signed and sealed by Vipin N. Tolat, P.E., bearing the Miami-Dade County Product Control revision stamp with the Notice of Acceptance number and expiration date by the Miami-Dade County Product Control Section.

MISSILE IMPACT RATING: None

LABELING: A permanent mark with the manufacturer's name, acronym or logo is to be located on each unit. A permanent label with the manufacturer's name or logo, city, state, model/series, and the statement reading 'Miami-Dade County Product Control Approved' is to be located on each packaging carton.

RENEWAL of this NOA shall be considered after a renewal application has been filed and there has been no change in the applicable building code negatively affecting the performance of this product.

TERMINATION of this NOA will occur after the expiration date or if there has been a revision or change in the materials, use, and/or manufacture of the product or process. Misuse of this NOA as an endorsement of any product, for sales, advertising or any other purposes shall automatically terminate this NOA. Failure to comply with any section of this NOA shall be cause for termination and removal of NOA.

ADVERTISEMENT: The NOA number preceded by the words Miami-Dade County, Florida, and followed by the expiration date may be displayed in advertising literature. If any portion of the NOA is displayed, then it shall be done in its entirety.

INSPECTION: A copy of this entire NOA shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at the request of the Building Official.

This NOA **renews** and **revises NOA # 17-0802.07** and consists of this page 1 and evidence pages E-1, E-2 and E-3, as well as approval document mentioned above.

The submitted documentation was reviewed by **Carlos M. Utrera, P.E.**

MIAMI-DADE COUNTY APPROVED

NOA No. 20-0526.05
Expiration Date: July 30, 2025
Approval Date: July 30, 2020
Page 1

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Nu-Vue Industries, Inc.

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

1. EVIDENCE SUBMITTED UNDER PREVIOUS NOAs

A. DRAWINGS *"Submitted under NOA #15-0507.03"*

1. Drawing No. **NU-5**, titled "Skewed Nail Plate, NV358 & NV458 with Double NVTH Straps, NVTH/NVTHS Anchors & NVHC Hurricane Clips and NVSTA & NVHTA Heavy Duty Anchors with Seat", sheets 1 through 4 of 4, dated 04/15/2015, prepared by Nu-Vue Industries, Inc., signed and sealed by Vipin N. Tolat, P.E.

B. TESTS *"Submitted under NOA # 04-0510.03"*

Test reports on wood connectors per ASTM D1761 by Product Testing, Inc., signed and sealed by C. R. Caudel, P.E.

	Report No.	Wood Connector	Direction	Date
1.	PT # 03-4482	NVSNP3	Downward	09/15/03
2.	PT # 03-4625	NVHCL/R	Up& Sideways	01/21/04
3.	PT # 04-4641	NVSTA-24H	Up& Sideways	03/17/04
4.	PT # 04-4698	NVTH24	Up& Sideways	04/15/04
5.	PT # 03-4590	NVTH26/NV458	Sideways	12/31/03
6.	PT # 04-4642	NVHTA-24H	Up& Sideways	03/22/04
7.	PT # 03-4543	NVTH20/NV358	Up& Sideways	12/19/03

C. CALCULATIONS *"Submitted under NOA # 09-0721.05"*

1. Report of Design Capacities, dated 06/30/2009, sheets 1 through 12 of 12, prepared, signed and sealed by Vipin N. Tolat, P.E.

"Submitted under NOA # 04-0510.03"

2. Report of Design Capacities dated 04/27/2004, sheet 1 through 12, prepared, signed and sealed by Vipin N. Tolat, P.E.

D. QUALITY ASSURANCE

1. Miami-Dade Department of Regulatory and Economic Resources (RER)

E. MATERIAL CERTIFICATIONS

1. None.

F. STATEMENT *"Submitted under NOA #15-0507.03"*

1. Statement letter of code conformance to 2010 and 5th (2014) edition of the FBC, issued by Vipin N. Tolat, P.E., dated 04/29/2015, signed and sealed by Vipin N. Tolat, P.E.

"Submitted under NOA # 09-0721.05"

2. Statement letter of code conformance, no financial interest and no change of product, dated 07/08/2009, issued, signed and sealed by Vipin N. Tolat, P.E.

Carlos M. Utrera, P.E.
Product Control Examiner
NOA No. 20-0526.05
Expiration Date: July 30, 2025
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Nu-Vue Industries, Inc.

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

2. EVIDENCE SUBMITTED UNDER NOA # 17-0802.07

A. DRAWINGS

1. Drawing No. **NU-5**, titled "Skewed Nail Plate, NV358 & NV458 with Double NVTH Straps, NVTH/NVTHS Anchors & NVHC Hurricane Clips and NVSTA & NVHTA Heavy Duty Anchors with Seat", sheets 1 through 4 of 4, dated 07/17/2017, prepared by Nu-Vue Industries, Inc., signed and sealed by Vipin N. Tolat, P.E.

B. TESTS

1. None.

C. CALCULATIONS

1. None.

D. QUALITY ASSURANCE

1. Miami-Dade Department of Regulatory and Economic Resources (RER)

E. MATERIAL CERTIFICATIONS

1. None.

F. STATEMENT

1. Statement letter of code conformance to the 5th Edition (2014) and 6th Edition (2017) FBC, issued by Vipin N. Tolat, P.E., dated 07/25/2017, signed and sealed by Vipin N. Tolat, P.E.

Carlos M. Utrera, P.E.
Product Control Examiner
NOA No. 20-0526.05
Expiration Date: July 30, 2025
Approval Date: July 30, 2020

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Nu-Vue Industries, Inc.

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

3. NEW EVIDENCE SUBMITTED

A. DRAWINGS

1. Drawing No. **NU-5**, titled "Skewed Nail Plate, NV358 & NV458 with Double NVTH Straps, NVTH/NVTHS Anchors & NVHC Hurricane Clips and NVSTA & NVHTA Heavy Duty Anchors with Seat", sheets 1 through 4 of 4, dated 06/25/2020, prepared by Nu-Vue Industries, Inc., signed and sealed by Vipin N. Tolat, P.E.

B. TESTS

1. Verification calculations for compliance with the ASTM D7147-05 and ASTM D7147-11, prepared by Vipin N. Tolat, P.E. dated 05/18/2020, signed and sealed by Vipin N. Tolat, P.E.

C. CALCULATIONS

1. None.

D. QUALITY ASSURANCE

1. Miami-Dade Department of Regulatory and Economic Resources (RER)

E. MATERIAL CERTIFICATIONS

1. None.

F. STATEMENT

1. Statement letter of code conformance to the 6th Edition (2017) and the 7th Edition (2020) FBC and of no financial interest, issued by Vipin N. Tolat, P.E., dated 06/25/2020, signed and sealed by Vipin N. Tolat, P.E.

Carlos M. Utrera, P.E.
Product Control Examiner
NOA No. 20-0526.05
Expiration Date: July 30, 2025
Approval Date: July 30, 2020

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TABLE 2: NV358 – 14G Double NVTH Straps with 2 ply 18G seat

Assembly Product Code	14G Strap Product Code	Dimension H (inches)	Total No. of Fasteners in 2 Straps 10d x 3"	Total No. of Fasteners in Seat 10d x 3"	Allowable Loads (lbs)		
					Uplift	L1	L2
NV358–12	NVTH16	12	8	8	2245	1961	1839
NV358–14	NVTH18	14	10	8	2525	2206	2068
NV358–16	NVTH20	16	12	8	2806	2452	2298
NV358–20	NVTH24	20	14	8	3086	2697	2528
NV358–22	NVTH26	22	16	8	3367	2942	2758
NV358–24	NVTH28	24					
NV358–26	NVTH30	26					
NV358–32	NVTH36	32					
NV358–44	NVTH48	44					

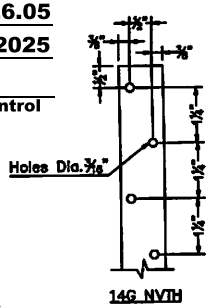
TABLE 3: NV458 – 14G Double NVTH Straps with 3 ply 18G seat

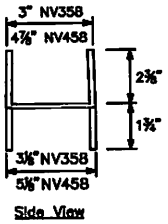
Assembly Product Code	14G Strap Product Code	Dimension H (inches)	Total No. of Fasteners in 2 Straps 10d x 3"	Total No. of Fasteners in Seat 10d x 3"	Allowable Loads (lbs)		
					Uplift	L1	L2
NV458–12	NVTH16	12	8	8	2245	2783	2078
NV458–14	NVTH18	14	10	8	2525	3131	2338
NV458–16	NVTH20	16	12	8	2806	3479	2597
NV458–20	NVTH24	20	14	8	3086	3827	2857
NV458–22	NVTH26	22	16	8	3367	4175	3117
NV458–24	NVTH28	24					
NV458–26	NVTH30	26					
NV458–32	NVTH36	32					
NV458–44	NVTH48	44					

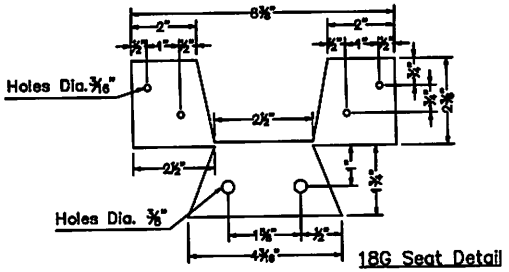
PRODUCT REVISED
as complying with the Florida Building Code
NOA-No. 20-0526.05
Expiration Date 07/30/2025
By
Miami-Dade Product Control

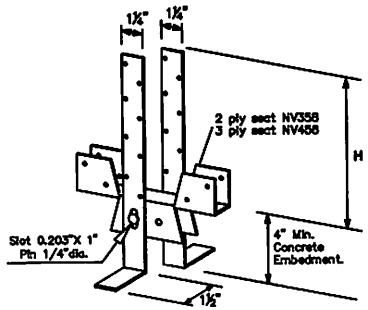
Notes:

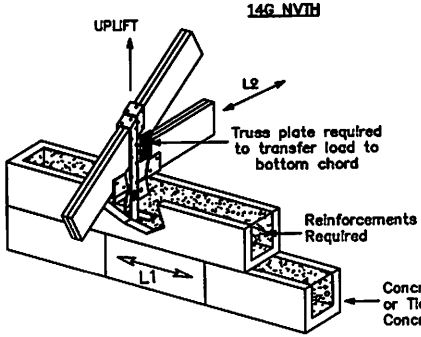
1. Minimum embedment into concrete 4".
2. Nails are necessary in straps and seat to achieve design loads.
3. See Note 6 (Sheet 1) for combined load.
4. Nails through chords shall not force the truss plate on the opposite side.
5. For general notes, see sheet 1.











VIPIN N. TOLAT, PE (CIVIL)
FL. REG. # 12847
15123 LANTERN CREEK LANE
HOUSTON, TX 77088

VIPIN N. TOLAT
No. 12847
STATE OF FLORIDA
PROFESSIONAL ENGINEER
6/25/20

Nu-Vue Industries, Inc.
1059-1059 East 29 Street
Hialeah, Florida 33013
Phone: (305) 694-0397
Fax: (305) 694-0398

NV358 & NV458 WITH DOUBLE NVTH STRAPS

DWG #:	Sheet:	Date:
NU-5	2 of 4	June 25, 2020

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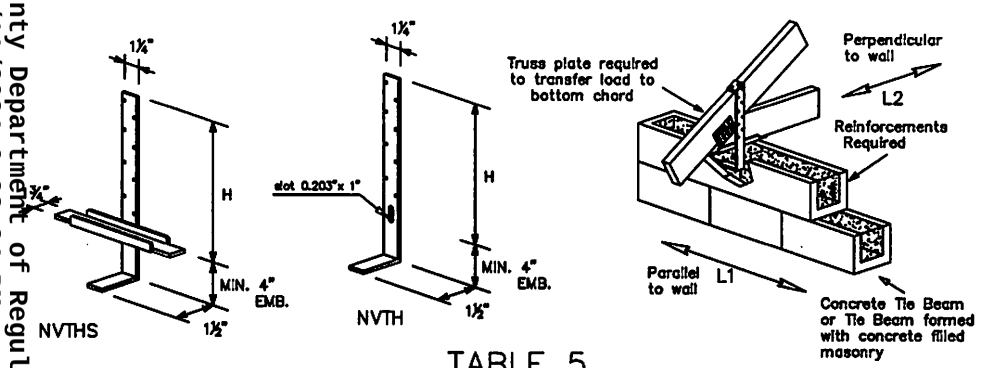


TABLE 4

Truss Anchors NVTH and Riveted Truss Anchors with Seat NVTHS

H Length (in)	Product Code		Gauge seat	Gauge strap
12	NVTH-16	NVTHS 212	18	14
14	NVTH-18	NVTHS 214	18	14
16	NVTH-20	NVTHS 216	18	14
18	NVTH-22	NVTHS 218	18	14
20	NVTH-24	NVTHS 220	18	14
22	NVTH-26	NVTHS 222	18	14
24	NVTH-28	NVTHS 224	18	14
26	NVTH-30	NVTHS 226	18	14
32	NVTH-36	NVTHS 232	18	14
44	NVTH-48	NVTHS 244	18	14

No. of Fasteners In Strap 10d x 1.5"	Maximum Allowable Load (lbs)		
	Uplift	L1	L2
5	1032	560	525
6	1222	671	630
7	1275	783	735
8	1329	783	735
9	1383	783	735
10	1437	783	735
11	1490	783	735
12	1544	783	735
13	1598	783	735

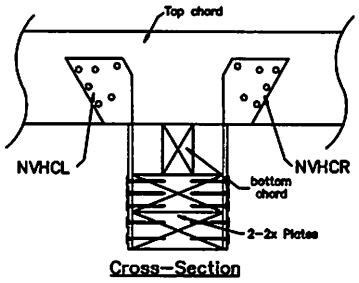
For general notes see sheet 1

TABLE 5

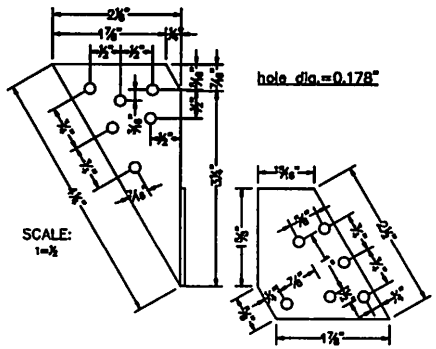
HURRICANE CLIPS

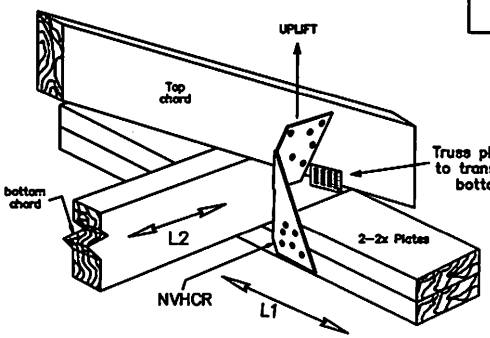
Product Code	Description	Gauge	Fasteners 10d x 1½"		Allowable Loads (lbs)		
			Header	Joist	Uplift	L1	L2
NVHCR	HURRICANE CLIP – RIGHT	18	6	6	525	253	333
NVHCL	HURRICANE CLIP – LEFT	18	6	6	525	253	333

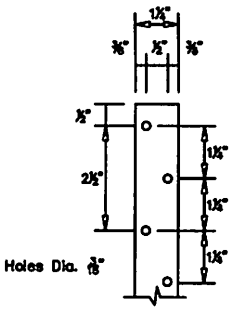
For Uplift, use two clips, one on each side to comply with section 2321.7 of the FBC



Cross-Section







NVTH, NVTHS

PRODUCT REVISED
as complying with the Florida Building Code
NOA-No. 20-0526.05
Expiration Date 07/30/2025
By
Miami-Dade Product Control

VIPIN N. TOLAT, PE (CIVIL)
FL. REG. # 12847
15123 LANTERN CREEK LANE
HOUSTON, TX 77068

VIPIN N. TOLAT LICENSE No. 12847 STATE OF FLORIDA PROFESSIONAL ENGINEER 12/25/20

Nu-Vue Industries, Inc.
1053-1059 East 29 Street
Hialeah, Florida 33013
Phone: (305) 694-0397
Fax: (305) 694-0398

NVTH / NVTHS ANCHORS & NVHC HURRICANE CLIPS

DWG #:	Sheet:	Date:
NU-5	3 of 4	June 25, 2020

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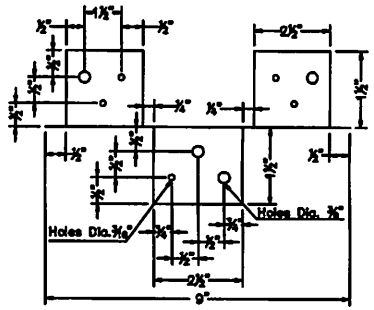
calc.pdf

TABLE 6

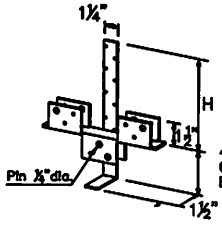
NVSTA–Heavy Duty Anchors with 14G NVTH Straps and 1 ply 20G seat

Assembly Product Code	14G Strap Product Code	Dimension H (inches)
NVSTA–12H	NVTH16	12
NVSTA–14H	NVTH18	14
NVSTA–16H	NVTH20	16
NVSTA–20H	NVTH24	20
NVSTA–22H	NVTH26	22
NVSTA–24H	NVTH28	24
NVSTA–26H	NVTH30	26
NVSTA–32H	NVTH36	32
NVSTA–44H	NVTH48	44

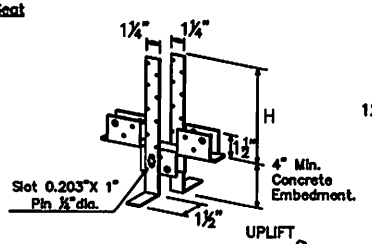
Total No. of Fasteners in Strap 10d x 1½"	Total No. of Fasteners in 20 GA. Seat 10d x 1½"	Allowable Loads (lbs)		
		Uplift [6]	L1 [6]	L2 [6]
5	6	1308	700	1049
6	6	1426	760	1144
7	6	1545	823	1239
8	6	1684	887	1335
9	6	1783	950	1430



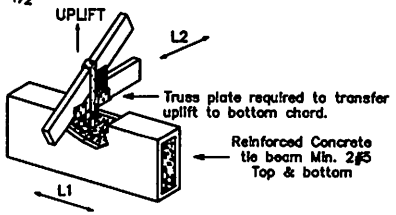
20G Seat



NVSTA
12H throght 44H



NVHTA
12H throght 44H



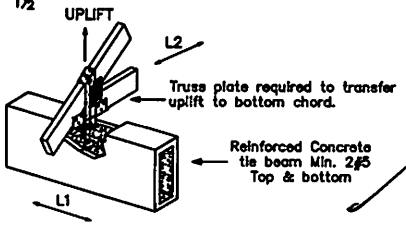


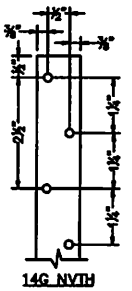
TABLE 7

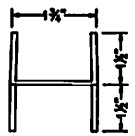
NVHTA–Heavy Duty Anchors with 14G Double NVTH Straps and 1 ply 20G seat

Assembly Product Code	14G Strap Product Code	Dimension H (inches)
NVHTA–12H	NVTH16	12
NVHTA–14H	NVTH18	14
NVHTA–16H	NVTH20	16
NVHTA–20H	NVTH24	20
NVHTA–22H	NVTH26	22
NVHTA–24H	NVTH28	24
NVHTA–26H	NVTH30	26
NVHTA–32H	NVTH36	32
NVHTA–44H	NVTH48	44

Total No. of Fasteners in two Straps 10d x 1½"	Total No. of Fasteners in 20 GA. Seat 10d x 1½"	Allowable Loads (lbs)			
		Uplift [6]	Uplift [5]	L1 [6]	L2 [6]
10	6	1772	2078	1050	1450
12	6	1994	2338	1181	1631
14	6	2215	2598	1312	1812
16	6	2437	2858	1444	1994
18	6	2658	3117	1575	2175

Notes:
1. Nails are necessary in straps and seat to achieve, desing loads.
2. See note 6, sheet 1 for combined loading.
3. Nails through chords shall not force the truss plates.
4. For general notes, see sheet 1.
5. For higher uplift loads, concrete shall be 3000 psi.
6. Based on min. 2500 psi concrete.





PRODUCT REVISED
as complying with the Florida Building Code
NOA-No. 20-0526.05
Expiration Date 07/30/2025
By
Miami-Dade Product Control

VIPIN N. TOLAT, PE (CIVIL)
FL. REG. # 12847
15123 LANTERN CREEK LANE
HOUSTON, TX 77068
STATE OF
6/25/2020

Nu–Vue Industries, Inc.
1053–1059 East 29 Street
Hialeah, Florida 33013
Phone: (305) 694–0397
Fax: (305) 694–0398

NVSTA & NVHTA HEAVY DUTY ANCHORS WITH SEAT

DWG #:	Sheet:	Date:
NU–5	4 of 4	June 25, 2020

MIAMI-DADE COUNTY
PRODUCT CONTROL SECTION
11805 SW 26 Street, Room 208
Miami, Florida 33175-2474
T (786) 315-2590 F (786) 315-2599
www.miamidade.gov/economy

DEPARTMENT OF REGULATORY AND ECONOMIC RESOURCES (RER)
BOARD AND CODE ADMINISTRATION DIVISION

NOTICE OF ACCEPTANCE (NOA)

Nu-Vue Industries, Inc.
1055 East 29th Street
Hialeah, FL 33013

SCOPE: This NOA is being issued under the applicable rules and regulations governing the use of construction materials. The documentation submitted has been reviewed and accepted by Miami-Dade County RER-Product Control Section to be used in Miami Dade County and other areas where allowed by the Authority Having Jurisdiction (AHJ).

This NOA shall not be valid after the expiration date stated below. The Miami-Dade County Product Control Section (In Miami Dade County) and/or the AHJ (in areas other than Miami Dade County) reserve the right to have this product or material tested for quality assurance purposes. If this product or material fails to perform in the accepted manner, the manufacturer will incur the expense of such testing and the AHJ may immediately revoke, modify, or suspend the use of such product or material within their jurisdiction. RER reserves the right to revoke this acceptance if it is determined by Miami-Dade County Product Control Section that this product or material fails to meet the requirements of the applicable building code.

This product is approved as described herein and has been designed to comply with the Florida Building Code, including the High Velocity Hurricane Zone.

DESCRIPTION: Series AB, NVSTA, NVHTA, NVTHJ, IKE, NVTT and NVHC-37 Steel Wood Connectors

APPROVAL DOCUMENT: Drawing No. **NU-1**, titled "Truss and Top Plate Anchors", sheets 1 through 4 of 4, dated 08/18/2020, prepared by Nu-Vue Industries, Inc., signed and sealed by Vipin N. Tolat, P.E., bearing the Miami-Dade County Product Control revision stamp with the Notice of Acceptance number and expiration date by the Miami-Dade County Product Control Section.

MISSILE IMPACT RATING: None

LABELING: Each unit shall bear a permanent label with the manufacturer's name or logo, city, state, model/series, and following statement: "Miami-Dade County Product Control Approved", unless otherwise noted herein.

RENEWAL of this NOA shall be considered after a renewal application has been filed and there has been no change in the applicable building code negatively affecting the performance of this product.

TERMINATION of this NOA will occur after the expiration date or if there has been a revision or change in the materials, use, and/or manufacture of the product or process. Misuse of this NOA as an endorsement of any product, for sales, advertising or any other purposes shall automatically terminate this NOA. Failure to comply with any section of this NOA shall be cause for termination and removal of NOA.

ADVERTISEMENT: The NOA number preceded by the words Miami-Dade County, Florida, and followed by the expiration date may be displayed in advertising literature. If any portion of the NOA is displayed, then it shall be done in its entirety.

INSPECTION: A copy of this entire NOA shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at the request of the Building Official.

This NOA **revises NOA # 18-0312.06** and consists of this page 1 and evidence pages E-1, E-2, E-3 and E-4, as well as approval document mentioned above.

The submitted documentation was reviewed by **Carlos M. Utrera, P.E.**

MIAMI-DADE COUNTY APPROVED

NOA No. 20-0901.05
Expiration Date: May 22, 2023
Approval Date: November 5, 2020
Page 1

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NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

1. Evidence Submitted Under Previous NOAs

A. DRAWINGS *"Submitted under NOA #16-0201.22"*

1. Drawing No. **NU-1**, titled "Truss and Top Plate Anchors", sheets 1 through 4 of 4, dated 02/18/2008, with last revision dated 01/25/2016, prepared by Nu-Vue Industries, Inc., signed and sealed by Vipin N. Tolat, P.E.

B. TESTS *"Submitted under NOA # 08-0325.02"*

Test reports on wood connectors per ASTM D1761-88 by Product Testing, Inc., signed and sealed by C. R. Caudel, P.E.

	Report No.	Wood Connector	Load Direction	Date
1.	05-5195A	AB-5	F1 and F2	02/15/08
2.	05-5196A	AB-7	F1 and F2	02/15/08
3.	04-4995	NVTHJ-26	Upward	01/31/05
4.	04-4996	NVTHJ-28	Upward	01/31/05
5.	05-5612	IKE-1	Upward, L1 and L2	03/20/06
6.	06-5622	IKE-2	Upward, L1 and L2	05/01/06
7.	04-4908	NVTT	Upward and L1	07/21/04
8.	03-4631	NVTT	Upward and L1	06/21/04
9.	08-6711	NVHC-37	Upward, L1 and L2	03/14/08
10.	04-4641	NVSTA	Upward, L1 and L2	03/17/04
11.	04-4642	NVHTA	Upward, L1 and L2	03/22/04

C. CALCULATIONS *"Submitted under NOA # 08-0325.02"*

1. Shear value of common wire nails and steel plate tensile calculations, prepared by Vipin N. Tolat, P.E., Consulting Engineer, dated 03/20/2008, signed and sealed by Vipin N. Tolat, P.E.

D. QUALITY ASSURANCE

1. Miami-Dade Department of Regulatory and Economic Resources (RER)

E. MATERIAL CERTIFICATIONS

1. None.

F. STATEMENTS *"Submitted under NOA #16-0201.22"*

1. Statement letter of code conformance to the 5th edition (2014) FBC and of no financial interest, dated 01/29/2016, signed and sealed by Vipin N. Tolat, P.E.

"Submitted under NOA # 13-0206.17"

2. Statement letter of code conformance to 2010 FBC and no financial interest, dated 01/31/2013, signed and sealed by Vipin N. Tolat, P.E.

Carlos M. Utrera, P.E.
Product Control Examiner
NOA No. 20-0901.05
Expiration Date: May 22, 2023
Approval Date: November 5, 2020

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NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

2. Evidence submitted under NOA # 17-0802.10

A. DRAWINGS

1. Drawing No. **NU-1**, titled "Truss and Top Plate Anchors", sheets 1 through 4 of 4, dated 07/17/2017, prepared by Nu-Vue Industries, Inc., signed and sealed by Vipin N. Tolat, P.E.

B. TESTS

1. None.

C. CALCULATIONS

1. None.

D. QUALITY ASSURANCE

1. Miami-Dade Department of Regulatory and Economic Resources (RER)

E. MATERIAL CERTIFICATIONS

1. None.

F. STATEMENTS

1. Statement letter of code conformance to the 5th Edition (2014) and 6th Edition (2017) FBC and of no financial interest, dated 07/25/2017, signed and sealed by Vipin N. Tolat, P.E.

Carlos M. Utrera, P.E.
Product Control Examiner
NOA No. 20-0901.05
Expiration Date: May 22, 2023
Approval Date: November 5, 2020

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NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

3. Evidence Submitted under NOA # 18-0312.06

A. DRAWINGS

1. Drawing No. **NU-1**, titled "Truss and Top Plate Anchors", sheets 1 through 4 of 4, dated 03/06/2018, prepared by Nu-Vue Industries, Inc., signed and sealed by Vipin N. Tolat, P.E.

B. TESTS

1. None.

C. CALCULATIONS

1. Adjustment factor calculations per ASTM D7147, prepared by Vipin N. Tolat, P.E., Consulting Engineer, dated 03/06/2018, signed and sealed by Vipin N. Tolat, P.E.

D. QUALITY ASSURANCE

1. Miami-Dade Department of Regulatory and Economic Resources (RER)

E. MATERIAL CERTIFICATIONS

1. None.

F. STATEMENTS

1. Statement letter of code conformance to the 6th Edition (2017) FBC and of no financial interest, dated 03/10/2018, signed and sealed by Vipin N. Tolat, P.E.

Carlos M. Utrera, P.E.
Product Control Examiner
NOA No. 20-0901.05
Expiration Date: May 22, 2023
Approval Date: November 5, 2020

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Nu-Vue Industries, Inc.

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

4. New Evidence Submitted

A. DRAWINGS

1. Drawing No. **NU-1**, titled "Truss and Top Plate Anchors", sheets 1 through 4 of 4, dated 08/18/2020, prepared by Nu-Vue Industries, Inc., signed and sealed by Vipin N. Tolat, P.E.

B. TESTS

1. None.

C. CALCULATIONS

1. None.

D. QUALITY ASSURANCE

1. Miami-Dade Department of Regulatory and Economic Resources (RER)

E. MATERIAL CERTIFICATIONS

1. None.

F. STATEMENTS

1. Statement letter of code conformance to the 6th Edition (2017) and 7th Edition (2020) FBC and of no financial interest, dated 08/18/2020, signed and sealed by Vipin N. Tolat, P.E.

Carlos M. Utrera, P.E.
Product Control Examiner
NOA No. 20-0901.05
Expiration Date: May 22, 2023
Approval Date: November 5, 2020

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Miami Dade County Department of Regulatory and Economic Resources - Job Copy
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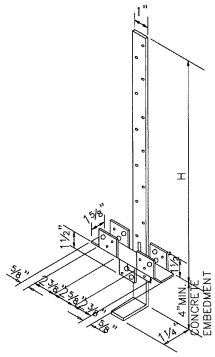
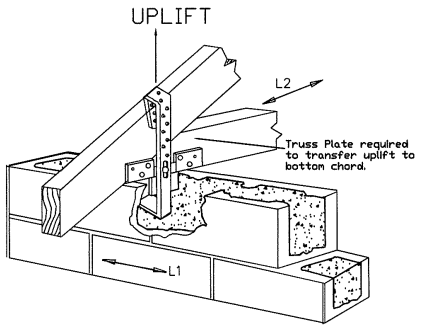
Deep Seat Truss Anchor.. They are designed to resist lateral and uplift forces. The strap is made of 14 gauge steel and the seats of 20 gauge steel.

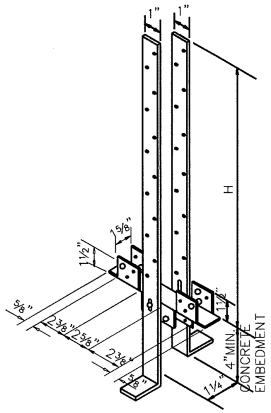


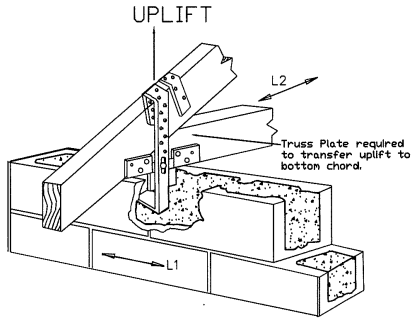


Assembly Product Code	Dimension H (inches)
NVSTA12	12
NVSTA16	16
NVSTA20	20
NVSTA22	22
NVSTA24	24

Total No. of Fasteners in Strap 10d x 1½"	Total No. of Fasteners in 20 GA. Seat 10d x 1½"	Allowable Loads (lbs)		
		Uplift [6]	L1 [6]	L2 [6]
5	6	1046	700	1049
6	6	1141	760	1144
7	6	1236	823	1239
8	6	1331	887	1335
9	6	1426	950	1430

Holden Double Strap Riveted Truss Anchor.. They are designed of 14 gauge steel plates to resist lateral and uplift forces. The seats are made of 20 gauge steel.





Assembly Product Code	Dimension H (inches)
NVHTA12	12
NVHTA16	16
NVHTA20	20
NVHTA22	22
NVHTA24	24

Total No. of Fasteners in two Straps 10d x 1½"	Total No. of Fasteners in 20 GA. Seat 10d x 1½"	Allowable Loads (lbs)			
		Uplift [6]	Uplift [5]	L1 [6]	L2 [6]
10	6	1506	1766	1050	1450
12	6	1695	1987	1181	1631
14	6	1883	2208	1312	1812
16	6	2071	2429	1444	1994
18	6	2259	2649	1575	2175

Notes:
1. Nails are necessary in straps and seat to achieve, desing loads.
2. See note 6, sheet 1 for combined loading.
3. Nails through chords shall not force the truss plates.
4. For general notes, see sheet 1.
5. For higher uplift loads, concrete shall be 3000 psi.
6. Based on min. 2500 psi concrete.

PRODUCT REVISED
as complying with the Florida Building Code
NOA-No. 20-0901.05
Expiration Date 05/22/2023
By _____
Miami-Dade Product Control

VIPIN N. TOLAT, PE (CIVIL)
FL. REG. # 12847
15123 LANTERN CREEK LANE
HOUSTON, TX 77068

8/21/2020

Nu-Vue Industries, Inc.
1053-1059 East 29 Street
Hialeah, Florida 33013
(305) 694-0397
Fax: (305) 694-0398

TRUSS AND TOP PLATE ANCHORS

DWG #:	Sheet:	Date:	Revisions:
NU-1	2 of 4	August 18, 2020	

MIAMI-DADE COUNTY

DEPARTMENT OF REGULATORY AND ECONOMIC RESOURCES

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

2/9/2024 4:48:33 PM

Contact Name: Edgardo Betancourt

Contact Email: EDGARDO@THEARKOGROUP.COM

Tracking Number: UP24011950

Reviews to rework: INPI

MIAMI-DADE COUNTY

DEPARTMENT OF REGULATORY AND ECONOMIC RESOURCES

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

3/19/2024 3:13:50 PM

Contact Name: Jorge Gonzalez

Contact Email: JEMPERMITS@GMAIL.COM

Tracking Number: 2024008996

Reviews to rework: DPAD,HRS,PWIF

MIAMI-DADE COUNTY

DEPARTMENT OF REGULATORY AND ECONOMIC RESOURCES

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

4/2/2024 10:19:07 AM

Contact Name: Jorge Gonzalez

Contact Email: JEMPERMITS@GMAIL.COM

Tracking Number: 2024008996

Reviews to rework: HRS

MIAMI-DADE COUNTY

DEPARTMENT OF REGULATORY AND ECONOMIC RESOURCES

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

6/5/2024 8:58:30 AM

Contact Name: Jorge Gonzalez

Contact Email: JEMPERMITS@GMAIL.COM

Tracking Number: 2024008996

Reviews to rework: HRS

MIAMI-DADE COUNTY

DEPARTMENT OF REGULATORY AND ECONOMIC RESOURCES

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

7/1/2024 4:32:08 PM

Contact Name: Edgardo Betancourt

Contact Email: EDGARDO@THEARKOGROUP.COM

Tracking Number: 2024008996

Reviews to rework: HRS

Miami-Dade Department of Regulatory and Economic Resources

CONTACT INFORMATION FOR PERMIT APPLICATION

FIRST NAME *(print clearly)*	LAST NAME *(print clearly)*
EDGARDO	BETANCOURT
MOBILE PHONE	**OFFICE/HOME PHONE**
	305.400.8133

EMAIL *(required so you can be notified on the status of your plans)*
EDGARDO@THEARKOGROUP.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.)***
BL2023-1183

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.)

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)*

☐ 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
☐ DERM GREASE	☐ DERM INDUSTRIAL	☐ DERM PAVING & DRAINAGE	☐ DERM POLLUTION	☐ DERM PRE-TREATMENT	☐ DERM SOLID WASTE
☐ DERM TANKS	☑ DERM TREES	☐ DERM WATER TREATMENT	☐ DERM WETLANDS	☐ PERMIT BY AFFIDAVIT CHECK	☐ SHORT TERM EVENT AFFIDAVIT CHECK
☑ DOH/HRS	☐ DERM OSTD				

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 Permitting Staff)*

APPLICATION DATE	CLERK NAME	ARRIVAL TIME
PROCESS NUMBER	PROCESS NUMBER	PROCESS NUMBER

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

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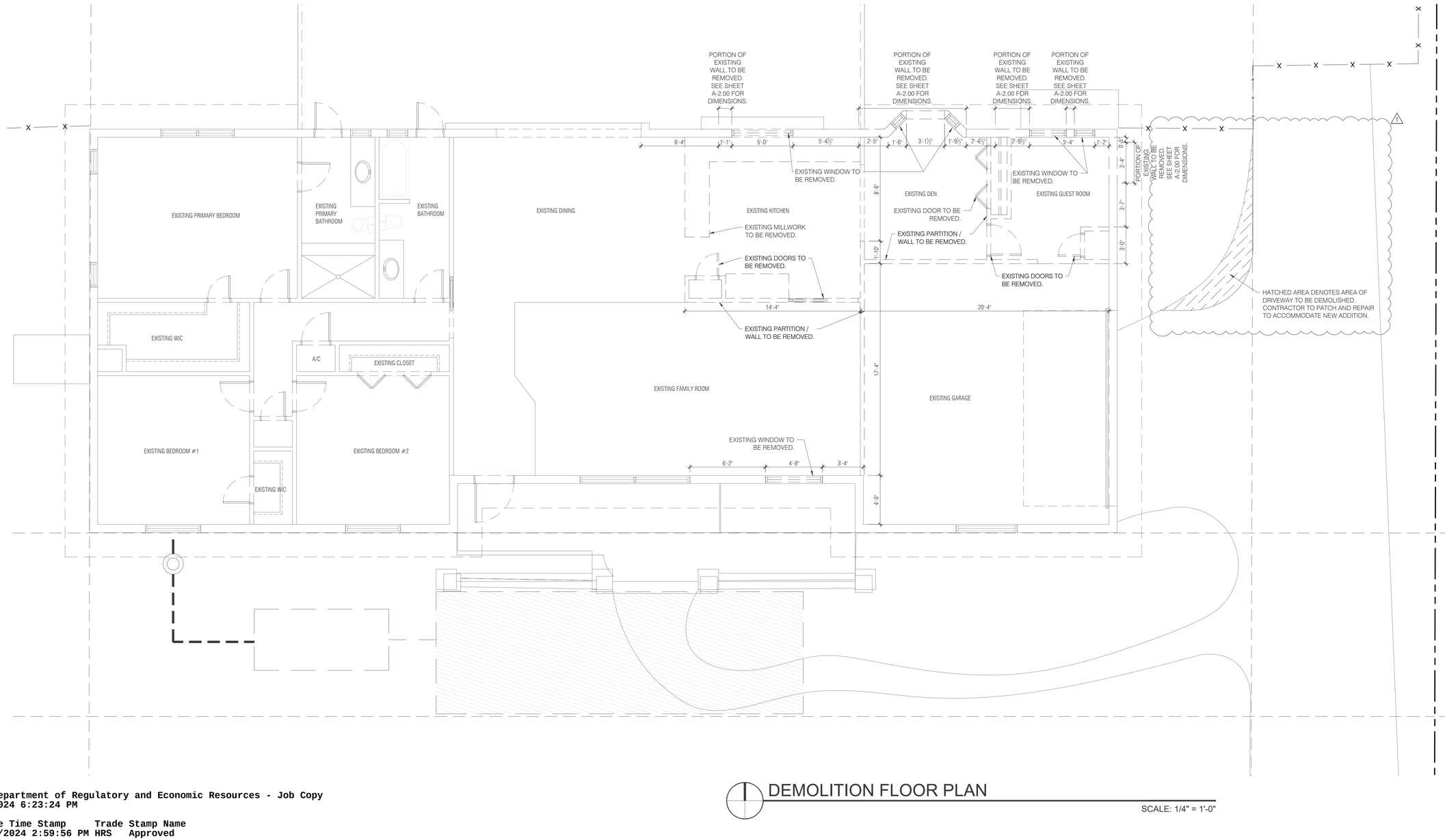

DEMOLITION FLOOR PLAN

SCALE: 1/4" = 1'-0"

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Examiner Date Time Stamp Trade Stamp Name
TOLEDO, GABRIEL 7/2/2024 2:59:56 PM HRS Approved

ARKO ARCHITECTURE, LLC
2490 CORAL WAY, SUITE 301
MIAMI, FL 33145
edgardo@thearkogroup.com
eduardo@thearkogroup.com
www.thearkogroup.com
p: 305.400.8133

ADDITION & RESTORATION FOR:

MAZZINI & MELINE RESIDENCE

10300 SW 70TH AVE, MIAMI, FL 33156

Digitally signed by Edgardo J Betancourt Santiago
Date: 2024.02.09 11:07:39-05'00'

STATE OF FLORIDA
EDGARDO J BETANCOURT SANTIAGO
AR99726
REGISTERED ARCHITECT

DRAWN BY
DATE 03.29.23 MV CHECKED BY EV PROJECT 22-84

REVISIONS

1 10.06.23 BUILDING DEPARTMENT COMMENTS

DEMOLITION FLOOR PLAN

CONSTRUCTION DOCUMENTS

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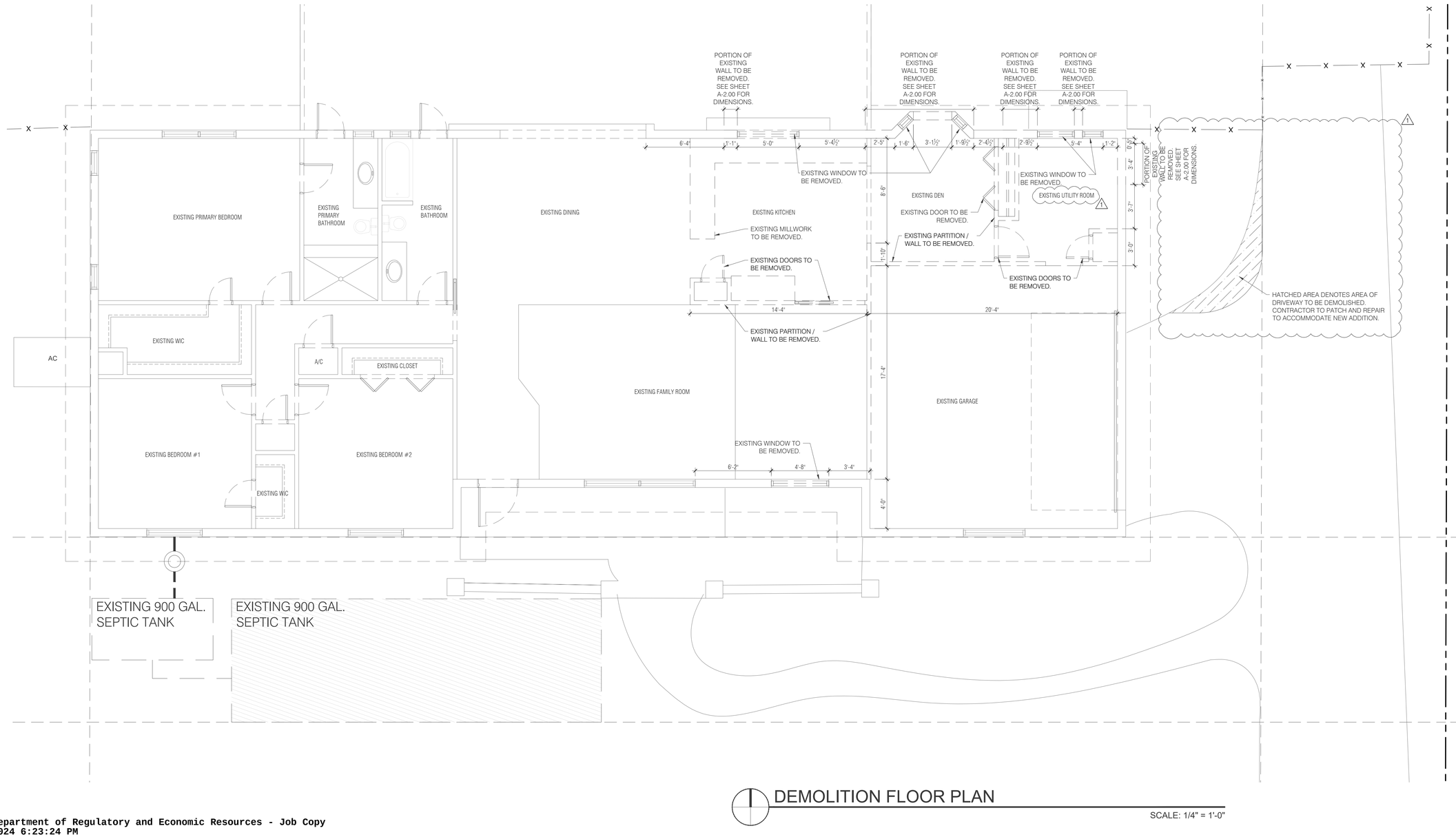

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Digitally signed by Edgardo J Betancourt Santiago
Date: 2024.03.18 18:02:02-04'00'

STATE OF FLORIDA
EDGARDO J BETANCOURT SANTIAGO
AR99726
REGISTERED ARCHITECT

DRAWN BY
DATE 03.29.23 | MV | PROJECT 22-84
CHECKED BY EV

REVISIONS

1 03.18.24 BUILDING DEPARTMENT COMMENTS

DEMOLITION FLOOR PLAN

CONSTRUCTION DOCUMENTS

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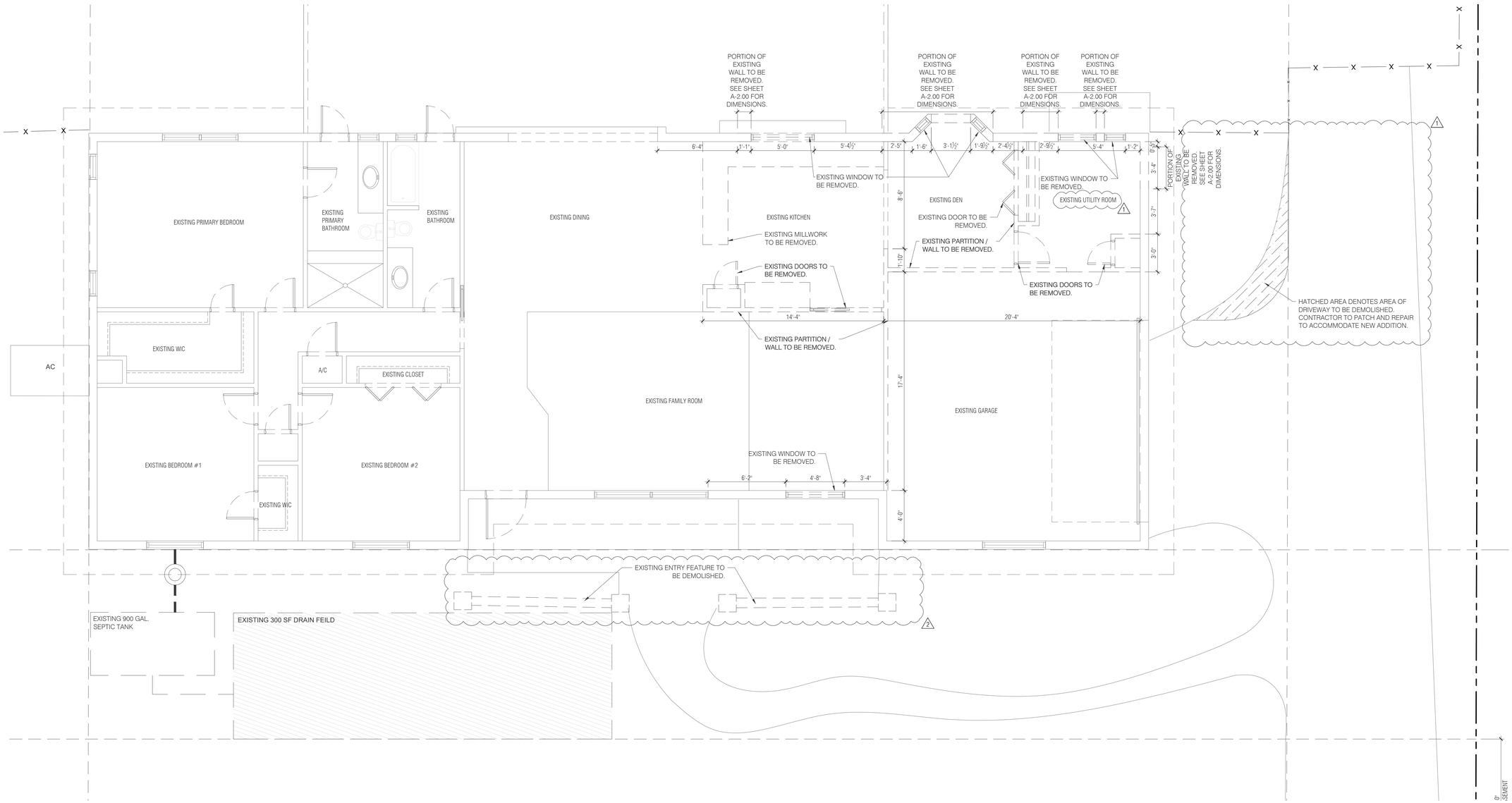
3. THE CONTRACTOR SHALL COORDINATE WITH F.P.L., WATER MANAGEMENT AND ALL CITY AFFECTED SERVICES ALL DEMOLITION WORK TO PROPERLY PROTECT ALL CITY LINES DURING DEMOLITION WORK. CONTRACTOR WILL BE HELD LIABLE FOR ALL WORK NOT COORDINATED WITH THE CITY PRIOR, DURING, AND AFTER DEMOLITION WORK HAS BEGUN

DEMOLITION NOTES

- CONTRACTOR TO VERIFY PROPOSED FLOOR PLANS, ELEVATIONS, AND SCHEDULES FOR SIZING OF ALL NEW OPENINGS AND SELECTIVE DEMOLITION.



DEMOLITION FLOOR PLAN

SCALE: 1/4" = 1'-0"

ARKO ARCHITECTURE, LLC
2490 CORAL WAY, SUITE 301
MIAMI, FL 33145
edgardo@thearkogroup.com
eduardo@thearkogroup.com
www.thearkogroup.com
p: 305.400.8133

ADDITION & RESTORATION FOR:

MAZZINI & MELINE RESIDENCE

10300 SW 70TH AVE, MIAMI, FL 33156

Digitally signed by Edgardo J Betancourt Santiago
Date: 2024.04.02 09:49:53-04'00'

STATE OF FLORIDA · EDGARDO J BETANCOURT SANTIAGO · AR99726 · REGISTERED ARCHITECT

DRAWN BY MV | DATE 03.29.23 | CHECKED BY EV | PROJECT 22-84

REVISIONS

1. 03.18.24 BUILDING DEPARTMENT COMMENTS
2. 04.02.24 BUILDING DEPARTMENT COMMENTS

DEMOLITION FLOOR PLAN

CONSTRUCTION DOCUMENTS

D-1.00

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ELECTRICAL SPECIFICATIONS

PART 1 - GENERAL

A. THE CONTRACTOR SHALL SUPPLY AND INSTALL ALL NEW ELECTRICAL WORK INDICATED. CONSTRUCTION SHALL BE IN ACCORDANCE WITH DRAWINGS AND APPLICABLE SPECIFICATIONS. IF A PROBLEM IS ENCOUNTERED IN COMPLYING WITH THIS REQUIREMENT, CONTRACTOR SHALL NOTIFY THE ARCHITECT/ENGINEER AS SOON AS POSSIBLE AFTER DISCOVERY OF THE PROBLEM AND SHALL NOT PROCEED WITH THAT PORTION OF THE WORK UNTIL ARCHITECT/ENGINEER HAS DIRECTED CORRECTIVE ACTION TO BE TAKEN.

B. THE CONTRACTOR SHALL VISIT THE JOB SITE PRIOR TO BID AND FAMILIARIZE HIMSELF WITH ALL CONDITIONS AFFECTING ELECTRICAL AND COMMUNICATIONS INSTALLATION AND MAKE PROVISIONS AS TO THE COST THEREOF.

C. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE LATEST EDITION OF THE NATIONAL ELECTRIC CODE (AS ADOPTED BY THE AUTHORITY HAVING JURISDICTION) AND ALL CODES AND ORDINANCES OF THE AUTHORITY HAVING JURISDICTION. THE SPECIFICATION, CODES AND STANDARDS LISTED BELOW ARE UTILIZED IN THIS PROJECT.

1. NATIONAL ELECTRICAL CODE (NFPA-70, 2017 EDITION)
2. CODE FOR SAFETY TO LIFE (NFPA-101, 2018 EDITION)
3. STANDARD FOR THE INSTALLATION, MAINTENANCE AND USE OF LOCAL PROTECTIVE SIGNALING SYSTEMS (NFPA-72, 2016 EDITION)
4. UNDERWRITERS' LABORATORIES (UL)
5. NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION (NEMA)
6. AMERICAN NATIONAL STANDARDS INSTITUTE (ANSI)
7. FEDERAL SPECIFICATION (FED. SPEC.)
8. INSULATED POWER CABLE ENGINEERS ASSOCIATION (IPCEA)
9. FLORIDA BUILDING CODE. 2020 EDITION (AS AMENDED)
10. INSTITUTE OF ELECTRICAL AND ELECTRONIC ENGINEERS (IEEE)
11. CITY OF HOLLYWOOD BUILDING CODE. (AMENDMENTS TO FLORIDA BUILDING CODE 2020)
12. ADDITIONALLY, DESIGNS, WORK PRACTICES AND CONDITIONS MUST CONFORM WITH THE OCCUPATIONAL SAFETY AND HEALTH ACT OF 1970 (OSHA)

D. DO NOT SCALE THE ELECTRICAL DRAWINGS. REFER TO ARCHITECTURAL PLANS AND ELEVATIONS FOR EXACT LOCATION OF ALL EQUIPMENT. CONFIRM WITH OWNER'S REPRESENTATIVE.

E. IT IS NOT THE INTENT OF THESE PLANS TO SHOW EVERY MINOR DETAIL OF CONSTRUCTION. THE CONTRACTOR IS EXPECTED TO FURNISH AND INSTALL ALL ITEMS FOR A COMPLETE ELECTRICAL SYSTEM AND PROVIDE ALL REQUIREMENTS NECESSARY FOR EQUIPMENT TO BE PLACED IN PROPER WORKING ORDER.

F. CONTRACTOR SHALL GUARANTEE ALL MATERIALS AND WORKMANSHIP FREE FROM DEFECTS FROM A PERIOD OF NOT LESS THAN ONE YEAR FROM DATE OF ACCEPTANCE.

G. CORRECTION OF ANY DEFECTS SHALL BE COMPLETED WITHOUT ADDITIONAL CHARGE AND SHALL INCLUDE REPLACEMENT OR REPAIR OF ANY OTHER PHASE OF THE INSTALLATION WHICH MAY HAVE BEEN DAMAGED THERE BY.

H. ALL REQUIRED INSURANCE SHALL BE PROVIDED FOR PROTECTION AGAINST PUBLIC LIABILITY AND PROPERTY DAMAGE FOR THE DURATION OF THE WORK.

I. CONTRACTOR SHALL PAY FOR ALL PERMITS, FEES, INSPECTIONS AND TESTING. CONTRACTOR TO OBTAIN PERMIT AND APPROVED SUBMITTALS PRIOR TO BEGINNING WORK OR ORDERING EQUIPMENT.

J. THE TERM "PROVIDE" USED IN THE CONSTRUCTION DOCUMENTS AND SPECIFICATIONS INDICATES THE CONTRACTOR SHALL FURNISH AND INSTALL.

PART 2 - PRODUCTS

A. MINIMUM WIRE SIZE SHALL BE #12 A.W.G. UNLESS OTHERWISE NOTED. ALL CONDUCTORS SHALL BE COPPER WITH "THHN-THWN" INSULATION UNLESS OTHERWISE NOTED.

B. OUTLET BOXES SHALL BE PRESSED STEEL IN DRY LOCATIONS, CAST ALLOY WITH THREADED HUBS IN WET OR DAMP LOCATIONS AND SPECIAL ENCLOSURES FOR OTHER CLASSIFIED AREAS.

C. ALL MATERIALS SHALL BE NEW AND BEAR UNDERWRITERS' LABELS WHERE APPLICABLE. CIRCUIT BREAKERS USED AS SWITCHES IN FLUORESCENT OR HID LIGHTING CIRCUITS SHALL BE LISTED AND MARKED "SWD".

D. ALL CIRCUIT BREAKERS FEEDING MECHANICAL EQUIPMENT SHALL BE HACR TYPE CIRCUIT BREAKERS.

E. PANELBOARDS AND LOAD CENTERS:

1. CURRENT CARRYING BUSES SHALL BE COPPER. GROUND BUS BARS SHALL BE COPPER.
2. ALL CIRCUIT BREAKERS INSTALLED IN PANELBOARDS SHALL BE BOLT ON.
3. ALL CIRCUIT BREAKERS INSTALLED IN LOAD CENTERS SHALL BE PLUG IN.
4. ALL CIRCUIT BREAKERS FEEDING MECHANICAL EQUIPMENT SHALL BE HACR TYPE CIRCUIT BREAKERS.
5. A.I.C. RATINGS SHALL BE AS INDICATED ON PANELBOARD SCHEDULES.
6. PANELBOARD ENCLOSURES SHALL BE FURNISHED WITHOUT PRE-PUNCHED CONCENTRIC KNOCKOUTS.
7. ALL PANELBOARDS SHALL BE FURNISHED WITH PLASTIC LAMINATE NAMEPLATES WITH 1/4" ENGRAVED LETTERING FOR PANEL IDENTIFICATION.
8. ALL PANELBOARDS SHALL BE PROVIDED WITH TYPE-WRITTEN DIRECTORY OF BRANCH CIRCUIT DESIGNATIONS.

F. DISCONNECT SWITCHES SHALL BE H.P. RATED, HEAVY DUTY, QUICK-MAKE, QUICK-BREAK ENCLOSURES AS REQUIRED BY EXPOSURE.

G. MOTOR STARTERS SHALL BE MANUAL OR MAGNETIC AS INDICATED, WITH OVERLOAD RELAYS IN EACH HOT LEG.

H. RIGID NONMETALLIC CONDUIT SHALL BE SCHEDULE 40 PVC.

I. WIRING DEVICES (GENERAL PURPOSE RECEPTACLES AND WALL SWITCHES) SHALL BE WHITE COLOR UNLESS OTHERWISE NOTED. FACEPLATES SHALL BE SMOOTH, WHITE NYLON.

J. PROVIDE ARC-FAULT CIRCUIT INTERRUPTER PROTECTION AS REQUIRED BY NEC ARTICLE 210.12.

K. PROVIDE TAMPER RESISTANT RECEPTACLES AS REQUIRED BT NEC ARTICLE 406.12.

L. 15 AND 20 AMPERE, 125 VOLT AND 250 VOLT RECEPTACLES INSTALLED IN A WET LOCATION SHALL HAVE AN ENCLOSURE THAT IS WEATHERPROOF WHETHER OR NOT THE ATTACHMENT PLUG CAP IS INSERTED. ALL 15 AND 20 AMPERE, 125 AND 250 VOLT NON-LOCKING RECEPTACLES SHALL BE LISTED WEATHER-RESISTANT TYPE.

PART 3 - EXECUTION

A. COLOR CODING OF CONDUCTORS SHALL BE AS FOLLOWS:

1. 120/240 VOLTS, 1 PHASE, 3-WIRE SYSTEM: UNGROUNDED CONDUCTORS: 1 BLACK AND 1 RED GROUNDED (NEUTRAL) CONDUCTOR; WHITE. GROUNDING CONDUCTORS SHALL BE GREEN.
2. BRANCH CIRCUIT WIRING AND SERVICES (#6 AND LARGER) SHALL BE COLOR CODED AT ALL PULL POINTS (EXCEPT LB'S OR LBD'S) USING COLORED MARKERS OR PLASTIC TAPE MANUFACTURED FOR THE PURPOSE.

B. WIRING METHODS

1. ALL CONDUCTORS SHALL BE INSTALLED IN ELECTRICAL METALLIC TUBING (EMT) UNLESS OTHERWISE NOTED OR SPECIFICALLY PROHIBITED BY THE AUTHORITY HAVING JURISDICTION. ALL FITTINGS AND COUPLINGS FOR EMT CONDUIT SHALL BE ALL STEEL RAIN TIGHT COMPRESSION TYPE OR ALL STEEL CONCRETE TIGHT SET SCREW TYPE.
2. SCHEDULE 40 PVC CONDUIT, WITH FITTINGS AND COUPLINGS APPROPRIATE FOR THE USE, SHALL BE INSTALLED UNDERGROUND OR BELOW SLABS ON GRADE.
3. ELECTRICAL NONMETALLIC TUBING (EMT), WITH FITTINGS AND COUPLINGS APPROPRIATE FOR THE USE IS ACCEPTABLE FOR USE WITH INTERIOR BRANCH CIRCUIT WIRING FOR CIRCUITS 20 AMPS OR LESS AND CONCEALED IN WALLS OR ABOVE SUSPENDED CEILING AND AS APPROVED BY THE AUTHORITY HAVING JURISDICTION.
4. TYPE MC (METAL CLAD) CABLE WITH ALUMINUM ARMOR AND INTERNAL GROUND IS ACCEPTABLE FOR USE AS GENERAL BRANCH CIRCUIT WIRING FOR CIRCUITS 20 AMPERES OR LESS AND CONCEALED IN WALLS OR ABOVE SUSPENDED CEILING AND AS APPROVED BY THE AUTHORITY HAVING JURISDICTION.
5. TYPE NM (NONMETALLIC SHEATH) CABLE WITH INTERNAL GROUND IS ACCEPTABLE FOR USE AS GENERAL BRANCH CIRCUIT WIRING FOR CIRCUITS 20 AMPERES OR LESS AND CONCEALED IN WALLS OR ABOVE CEILING AND AS APPROVED BY THE AUTHORITY HAVING JURISDICTION.

C. ELECTRICAL SYSTEM SHALL BE COMPLETE AND EFFECTIVELY GROUNDED AS REQUIRED BY THE LATEST EDITION OF THE N.E.C. AND LOCAL CODES.

D. ALL WORK SHALL BE PERFORMED BY A LICENSED ELECTRICAL CONTRACTOR IN A FIRST CLASS WORKMANLIKE MANNER. THE COMPLETED SYSTEM SHALL BE FULLY OPERATIVE AND ACCEPTED BY ENGINEER/ARCHITECT.

E. ALL WORK SHALL BE COORDINATED WITH OTHER TRADES TO AVOID INTERFERENCE WITH THE PROGRESS OF CONSTRUCTION.

F. THE ELECTRICAL INSTALLATION SHALL MEET ALL STANDARD REQUIREMENTS OF POWER AND TELEPHONE COMPANIES, AND SHALL BE FULLY COORDINATED WITH THEM PRIOR TO COMMENCEMENT OF WORK.

G. PROVIDE AND INSTALL CONDUIT, CONDUCTORS, PULL WIRES, BOXES, COVER PLATES, AND WIRING DEVICES, FOR ALL OUTLETS AS INDICATED.

H. MATERIALS, PRODUCTS, AND EQUIPMENT, INCLUDING ALL COMPONENTS THEREOF, SHALL BE NEW AND SUCH AS APPEAR ON THE UL LIST OF APPROVED ITEMS AND SHALL MEET OR EXCEED THE REQUIREMENTS OF NEC, NEMA, AND IECE.

I. SUBSTITUTIONS:

1. IF ANY PROPOSED EQUIPMENT IS OF LARGER SIZE OR THERE ARE AMY CONTINGENT DIFFERENCES WHICH REQUIRE ADDITIONAL CONTROLS, EQUIPMENT OR APPARATUS ALL ASSOCIATED CHANGES TO THE BUILDING SYSTEMS NECESSARY TO ACCOMMODATE THESE CHANGES ARE THE RESPONSIBILITY OF THE CONTRACTOR.
2. "TO-SCALE" FLOOR PLAN DRAWINGS OR RISER/WIRING DIAGRAMS INDICATING THE PROPOSED CHANGES SHALL BE SUBMITTED ALONG WITH THE OTHER REQUIRED SHOP DRAWINGS.

J. CONTRACTOR SHALL SUBMIT AT LEAST FIVE (5) SETS OF SHOP DRAWINGS OR CUT SHEETS OF LIGHTING FIXTURES, SWITCHES, AND OTHER ELECTRICAL ITEMS FOR APPROVAL BY ENGINEER/ARCHITECT.

K. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL CUTTING AND PATCHING REQUIRED OF HIS WORK.

L. ALL LAY-IN LIGHTING FIXTURES SHALL BE SECURED TO THE SUSPENDED CEILING GRID AT EACH CORNER OR AS REQUIRED BY THE NATIONAL ELECTRIC CODE AND THE FLORIDA BUILDING CODE, SECTION 808. SEE ARCHITECTURAL DRAWINGS FOR DETAIL OF CEILING AND LUMINAIRE SUPPORT.

M. CONTRACTOR SHALL COORDINATE WITH MECHANICAL DRAWINGS AND PROVIDE ALL NECESSARY CONTROL WIRING.

N. ALL ELECTRICAL POWER WIRING FOR THE HVAC SYSTEM INCLUDING WIRING THRU LINE VOLTAGE CONTROL DEVICES SHALL BE THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR.

O. VOLTAGE DROP

1. CONDUCTORS FOR ALL FEEDERS SHALL BE INCREASED FROM SIZES INDICATED ON DRAWINGS TO PREVENT VOLTAGE DROP EXCEEDING 2%.
2. CONDUCTORS FOR ALL BRANCH CIRCUITS SHALL BE INCREASED FROM SIZES INDICATED ON DRAWINGS TO PREVENT VOLTAGE DROP EXCEEDING 3%. FROM THE FURTHEST DEVICE.
3. DETERMINING CONDUCTOR SIZES SHALL BE BASED ON 80% LOAD OF THE BREAKER SIZE.
4. FOR DETERMINATION OF WIRE SIZE FOR BID PURPOSES;
   * INCREASE WIRE BY 1 WIRE SIZE FOR RUNS 60 FT. TO 100 FT.
   * INCREASE WIRE BY 2 WIRE SIZES FOR RUNS 100 FT. TO 150 FT.
   * INCREASE WIRE BY 3 WIRE SIZES FOR RUNS FROM 150 FT. TO 230 FT.

P. PROVIDE CABLE LUGS SIZED FOR THE LINE AND/OR LOAD SIDE FEEDERS AS SCHEDULED FOR ALL SWITCHBOARDS, PANELBOARDS AND DISCONNECTS. WHERE CABLE LUGS ARE NOT AVAILABLE FOR THE SPECIFIC WIRE SIZE AND NUMBER OF SETS SCHEDULED, PROVIDE A TAP BOX ADJACENT TO THE EQUIPMENT WITH "POLARIS" TAPS TO TRANSITION TO CONDUCTORS TO MATCH THE CABLE LUGS AVAILABLE AND THE AMPERE RATING OF THE OVER-CURRENT DEVICE PROTECTING THE FEEDER.

Q. THE CONTRACTOR SHALL CONFIRM WITH THE ELECTRICAL UTILITY COMPANY ANY AND ALL REQUIREMENTS SUCH AS: METERING EQUIPMENT REQUIREMENTS AND METERING EQUIPMENT LOCATION, TRANSFORMER SIZE AND LOCATION OR SERVICE POINT, CONDUIT ENTRY AND LUG SIZE RESTRICTIONS.

R. THE CONTRACTOR SHALL SCHEDULE ALL REQUIRED DOWN TIME FOR THE OWNERS CONFIRMATION.

S. ANY CONFLICTS AND DESCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER BEFORE PROCEEDING WITH ANY WORK.

ELECTRICAL SHEET INDEX

SHEET#	DESCRIPTION
E1	NOTES, LEGEND & INDEX
E2	EXISITNG ELECTRICAL PLAN
E3	LIGHTING PLAN
E4	POWER PLAN
E3	RISER AND PANEL SCHEDULES

ELECTRICAL SYMBOLS

	TELEPHONE/DATA OUTLET WITH 3/4" CONDUIT STUBBED OUT FROM WALL 6" ABOVE CEILING. MOUNT 18" A.F.F. TO CENTER LINE OF OUTLET UNLESS OTHERWISE NOTED.
	TELEVISION OUTLET WITH 3/4" CONDUIT STUBBED OUT FROM WALL 6" ABOVE CEILING. MOUNT AT 18" A.F.F. TO CENTER LINE OF OUTLET UNLESS OTHERWISE NOTED.
	DUPLEX RECEPTACLE (AMPERAGE RATING TO MATCH BRANCH CIRCUIT RATING) MOUNTED AT 18" A.F.F. TO CENTER LINE OF OUTLET UNLESS NOTED OTHERWISE.
GFI	DUPLEX RECEPTACLE (AMPERAGE RATING TO MATCH BRANCH CIRCUIT RATING) WITH GROUND FAULT CIRCUIT INTERRUPTER, MOUNT AT 18" A.F.F. TO CENTER LINE OF OUTLET. UNLESS NOTED OTHERWISE.
	DUPLEX RECEPTACLE (AMPERAGE RATING TO MATCH BRANCH CIRCUIT RATING) MOUNTED ABOVE COUNTER SEE ARCHITECTUAL DRAWINGS FOR SPECIFIC REQUIREMENTS.
	SPECIAL-PURPOSE RECEPTACLE
J	JUNCTION BOX
EF	EXHAUST FAN. SEE MECHANICAL DRAWINGS FOR SPECIFICATIONS.
$	SINGLE POLE, 20 AMP, SWITCH. MOUNT 42" A.F.F. TO CENTERLINE OF SWITCH UNLESS OTHERWISE NOTED.
$3	3-WAY, 20 AMP, SWITCH. MOUNT 42" A.F.F. TO CENTERLINE OF SWITCH UNLESS OTHERWISE NOTED.
$D	SINGLE POLE, 20 AMP, SWITCH WITH DIMMER. MOUNT 42" A.F.F. TO CENTERLINE OF SWITCH UNLESS OTHERWISE NOTED.
$	TWO POLE, 30 AMP SWITCH. MOUNT ADJACENT EQUIPMENT TO BE CONTROLLED.
	FACTORY MOUNTED DISCONNECT/STARTER (SEE MECHANICAL SCHEDULE)
B A	FUSIBLE DISCONNECT SWITCH A = POLES, B= FRAME SIZE, C= FUSE RATING
B A	FUSIBLE DISCONNECT SWITCH TYPE COMBINATION MOTOR STARTER A = POLES, B= NEMA SIZE, C= FUSE RATING
	GROUNDING ELECTRODE & CONDUCTOR SYSTEM
	TRANSFORMER
	ELECTRICAL PANELBOARD
	TELEPHONE WOOD BACKBOARD
WP	WEATHERPROOF
A.F.F.	ABOVE FINISH FLOOR
	RECESSED DOWNLIGHT TO BE SELECTED BY OWNER, FURNISHED BY CONTRACTOR
	WALL SCONCE TO BE SELECTED BY OWNER, FURNISHED BY CONTRACTOR
	GARAGE LIGHT TO BE SELECTED BY OWNER, FURNISHED BY CONTRACTOR
	UNDER COUNTER LIGHT TO BE SELECTED BY OWNER, FURNISHED BY CONTRACTOR
I	SILHOUETTE 120V AC LOW PROFILE SMOKE ALARM WITH SEALED RECHARGEABLE BATTERY BACKUP. KIDDE MODEL KN-FMSM-I. INTERLOCK ALL DETECTORS TO ACTIVATE UPON ANY DETECTOR.
C C	AC COMBINATION CARBON MONOXIDE AND PHOTOELECTRIC SMOKE ALARM WITH VOICE MESSAGE WARNING SYSTEM AND BATTERY BACKUP. KIDDE MODEL KN-COPE-I.

ARKO ARCHITECTURE, LLC
2980 McFARLANE RD. SUITE 200
COCONUT GROVE, FL 33133
edgardo@thearkogroup.com
eduardo@thearkogroup.com
c: 954.647.1447
c: 305.951.6181

ADDITION & RESTORATION FOR:

MAZZINI & MELINE RESIDENCE

10300 SW 70TH AVE,
MIAMI, FL 33156

Digitally signed by Edgardo J Betancourt Santiago
Date: 2023.08.24 16:08:47-04'00'

STATE OF FLORIDA
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AR99726
REGISTERED ARCHITECT

DRAWN BY
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REVISIONS

ELECTRICAL NOTES

CONSTRUCTION DOCUMENTS

E1

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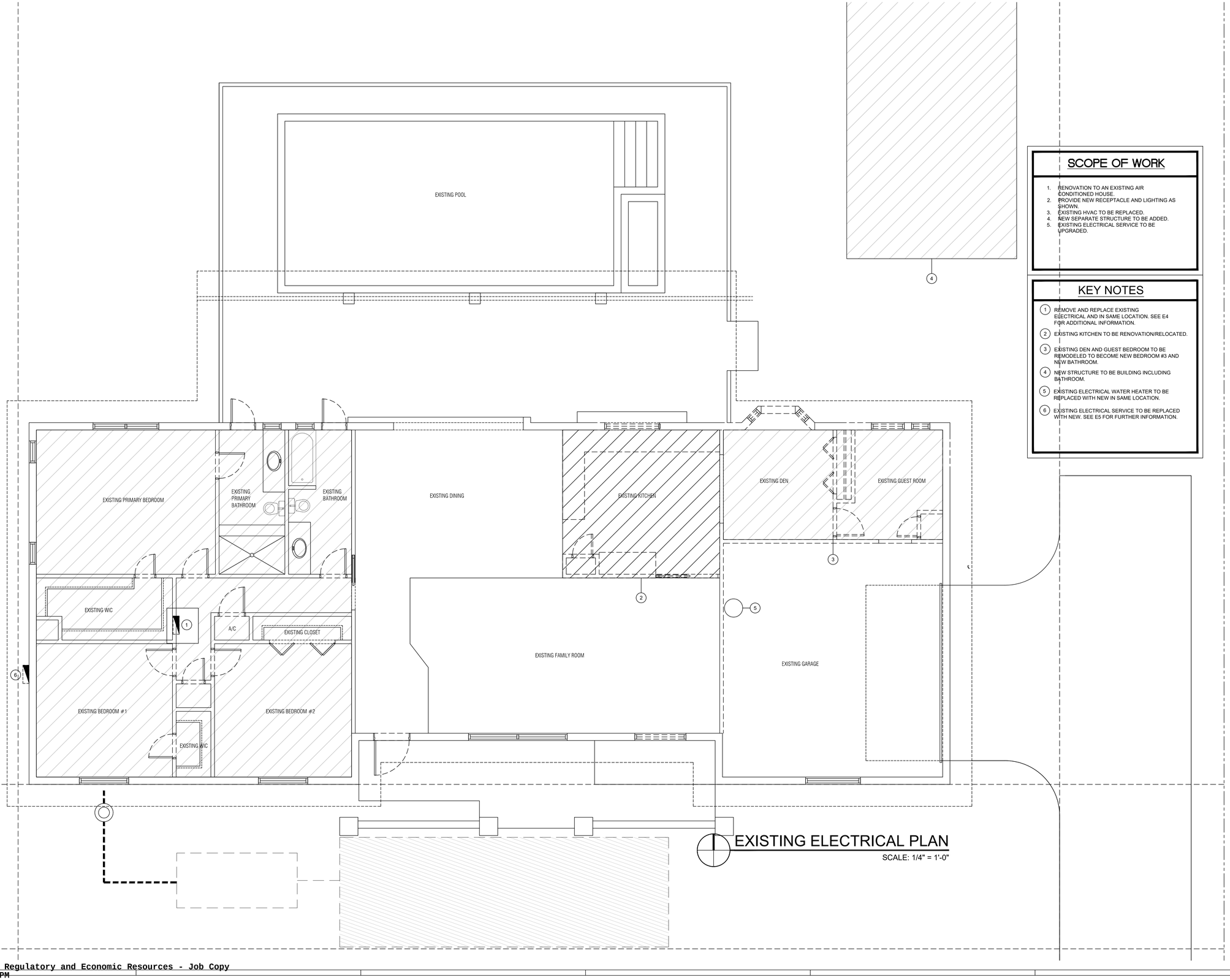

EXISTING ELECTRICAL PLAN

SCALE: 1/4" = 1'-0"

SCOPE OF WORK

1. RENOVATION TO AN EXISTING AIR CONDITIONED HOUSE.
2. PROVIDE NEW RECEPTACLE AND LIGHTING AS SHOWN.
3. EXISTING HVAC TO BE REPLACED.
4. NEW SEPARATE STRUCTURE TO BE ADDED.
5. EXISTING ELECTRICAL SERVICE TO BE UPGRADED.

KEY NOTES

1. REMOVE AND REPLACE EXISTING ELECTRICAL AND IN SAME LOCATION. SEE E4 FOR ADDITIONAL INFORMATION.
2. EXISTING KITCHEN TO BE RENOVATION/RELOCATED.
3. EXISTING DEN AND GUEST BEDROOM TO BE REMODELED TO BECOME NEW BEDROOM #3 AND NEW BATHROOM.
4. NEW STRUCTURE TO BE BUILDING INCLUDING BATHROOM.
5. EXISTING ELECTRICAL WATER HEATER TO BE REPLACED WITH NEW IN SAME LOCATION.
6. EXISTING ELECTRICAL SERVICE TO BE REPLACED WITH NEW. SEE E5 FOR FURTHER INFORMATION.

ARKO ARCHITECTURE, LLC
2980 McFARLANE RD. SUITE 200
COCONUT GROVE, FL 33133
edgardo@thearkogroup.com
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EXISTING ELECTRICAL PLAN

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SCOPE OF WORK

1. EXPANSION TO AN EXISTING AIR CONDITIONED HOUSE.
2. PROVIDE NEW RECEPTACLE AND LIGHTING AS SHOWN.
3. EXISTING HVAC TO BE REPLACED IN EXISTING STRUCTURE.

GENERAL NOTES

1. ALL LIGHT FIXTURES TO BE SELECTED BY OWNER. PROVIDED AND INSTALLED BY GC.
2. FIXTURES IN SHOWER SHOWN AS "VP" TO BE WET LISTED/SHOWER RATED.
3. LAMPS TO BE HIGH-EFFICACY TYPE PER FBC E R404.
4. INTERLOCK ALL SMOKE DETECTORS SO ALL GO INTO ALARM UPON ANY DEVICE ACTIVATION.
5. SMOKE DETECTORS ARE TO BE LOCATED MINIMUM OF 60" AWAY FROM ANY SUPPLY DIFFUSERS.

LIGHT FIXTURES

A	(NEW) EXTERIOR WALL SCONCE
B	(NEW) INTERIOR RECESSED DOWNLIGHT
C	(NEW) INTERIOR VANITY LIGHT
J	(NEW) J-BOX FOR PENDANT FAN/FIXTURE (NEC 314.27(C)
VP	(NEW) SHOWER LIGHT / VAPORPROOF

EXISTING POOL

EXISTING PRIMARY BEDROOM

EXISTING PRIMARY BATHROOM

EXISTING BATHROOM

EXISTING WIC

NEW PNL-A

EXISTING CLOSET

NEW METER/MAINS SEE E5.

EXISTING BEDROOM #1

EXISTING BEDROOM #2

EXISTING WIC

LIVING/DINING

FOYER

ICE

FRIDGE

PANTRY

PROPOSED KITCHEN

PROPOSED BATHROOM

PROPOSED BEDROOM #3

WALK IN CLOSET

EXISTING GARAGE

A-21 A-23 A-39 A-41

LIGHTING PLAN

SCALE: 1/4" = 1'-0"

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ARKO ARCHITECTURE, LLC
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REVISIONS

LIGHTING PLAN

CONSTRUCTION DOCUMENTS

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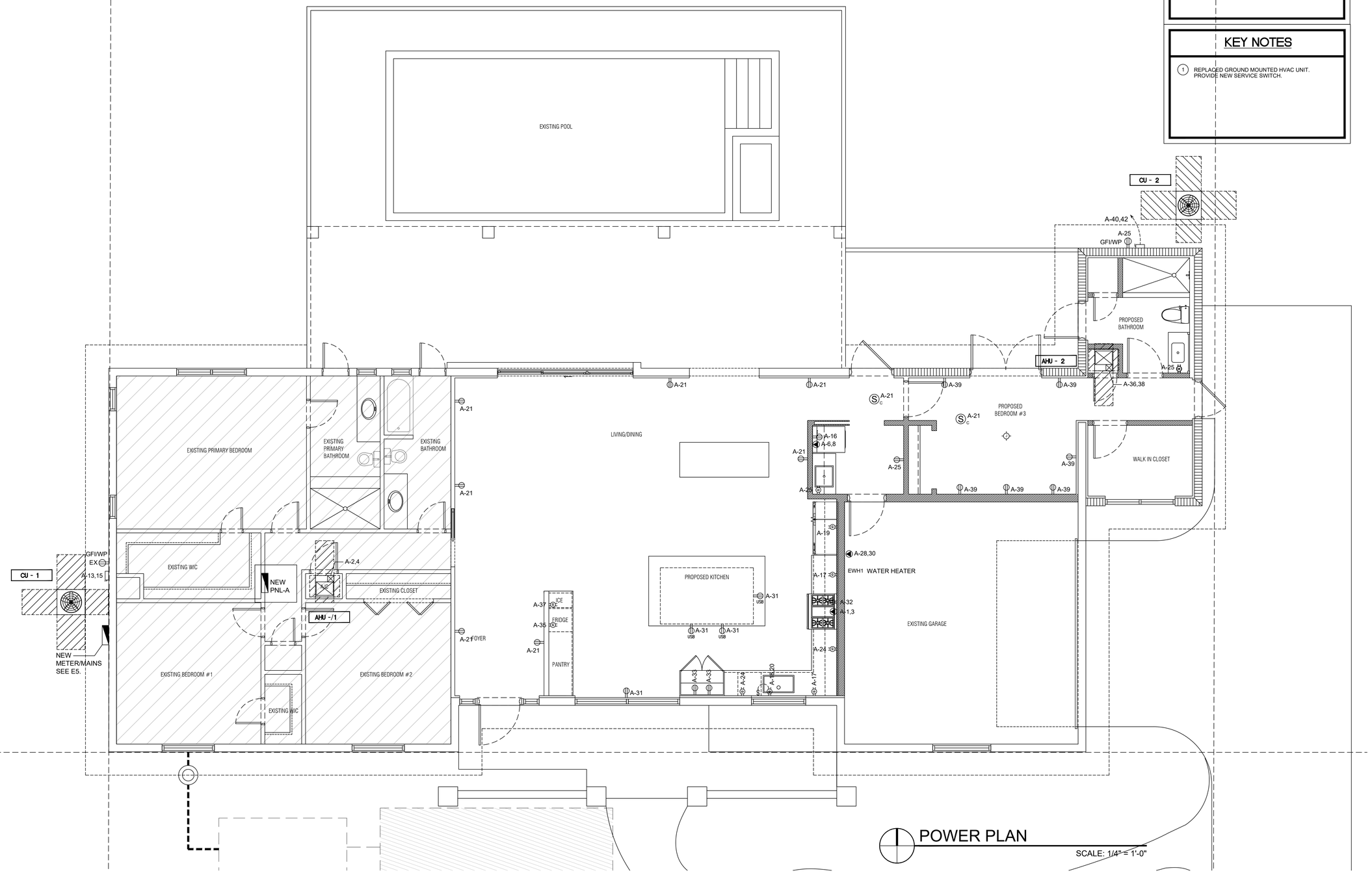
SCOPE OF WORK

1. EXPANSION TO AN EXISTING AIR CONDITIONED HOUSE.
2. PROVIDE NEW RECEPTACLE AND LIGHTING AS SHOWN.
3. EXISTING HVAC TO BE REPLACED IN EXISTING STRUCTURE.

KEY NOTES

1. REPLACED GROUND MOUNTED HVAC UNIT. PROVIDE NEW SERVICE SWITCH.



POWER PLAN

SCALE: 1/4" = 1'-0"

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POWER PLAN

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NOTES FOR BRANCH CIRCUIT PANELS

1. EXISTING BRANCH CIRCUIT IN EXISTING PANEL TO BE RELOCATED TO NEW PANEL IN SAME CIRCUIT LOCATION, PROVIDE NEW BREAKER.

LEGEND

- EXISTING
- NEW

SCHEDULE OF BRANCH CIRCUIT PANEL "A"

MAIN: 200 AMP MAIN LUGS ONLY — VOLTAGE: 120/240V, 1Ø, 3 WIRE
SPEC: SQUARE-D QO LOAD CENTER
MOUNTING: FLUSH

DESCRIPTION		WIRE	GND.	COND.	TRIP	CKT.	A PHASE KVA	B PHASE KVA	CKT.	TRIP	COND.	GND.	WIRE	DESCRIPTION	
OVEN	1	2#8	1#10	3/4"	50/2	1	5.0	2.7	2	30/2	3/4"	1#10	2#10	AHU-1	1
						3		5.0	4						
RANGE TOP	1	2#8	1#10	3/4"	50/2	5	5.0	2.5	6	30/2	3/4"	1#10	2#10	DRYER	1
						7		5.0	8						
SPRINKER PUMP	1	2#8	1#10	3/4"	60/2	9	5.0	2.5	10	60/2	3/4"	1#10	2#8	POOL MAIN	1
						11		5.0	12						
CU-1	1	2#12	1#12	3/4"	20/2	13	(1.3)	**	14	20	3/4"	1#12	2#12	POOL LIGHT	1
						15		(1.3)	16	20	3/4"	1#12	2#12	WASHER	1
RECEPT - KIT	1	2#12	1#12	3/4"	15	17	1.5	1.2	18	20	3/4"	1#12	2#12	DW	1
REFG	1	2#12	1#12	3/4"	15	19		1.2	20	20	3/4"	1#12	2#12	GD	1
LTG/RECEPT - LVG RM	1	2#12	1#12	3/4"	15	21	**	**	22	20	3/4"	1#12	2#12	LTG/RECEPT - FAMILY RM	1
GARAGE LIGHT	1	2#12	1#12	3/4"	15	23		**	24	20	3/4"	1#12	2#12	RECEPT - KIT	1
RECEPT - LAUNDRY RM	1	2#12	1#12	3/4"	15	25	-	**	26	15	3/4"	1#12	2#12	RECEPT/LTG - SW BDRM	1
RECEPT/LTG - SE BDRM	1	2#12	1#12	3/4"	15	27		**	28	30/2	3/4"	1#10	2#10	WATER HEATER	1
RECEPT/LTG - NE BDRM	1	2#12	1#12	3/4"	15	29	**	2.3	30	2					
RECEPT - KIT ISLAND		2#12	1#12	3/4"	20	31		**	32	20	3/4"	1#12	2#12	HOOD	
RECEPT - PANTRY		2#12	1#12	3/4"	20	33	**	-	34	20	-	-	-	SPARE	
REFG		2#12	1#12	3/4"	20	35		1.2	36	35/2	3/4"	1#10	2#10	AHU-2	
ICE		2#12	1#12	3/4"	20	37	1.2	3.2	38	2					
RECEPT/LTG - NEW BDRM #3		2#12	1#12	3/4"	20	39		**	40	25/2	3/4"	1#10	2#10	CU-2	
LTG - KIT		2#12	1#12	3/4"	20	41	**	(1.6)	42	2					

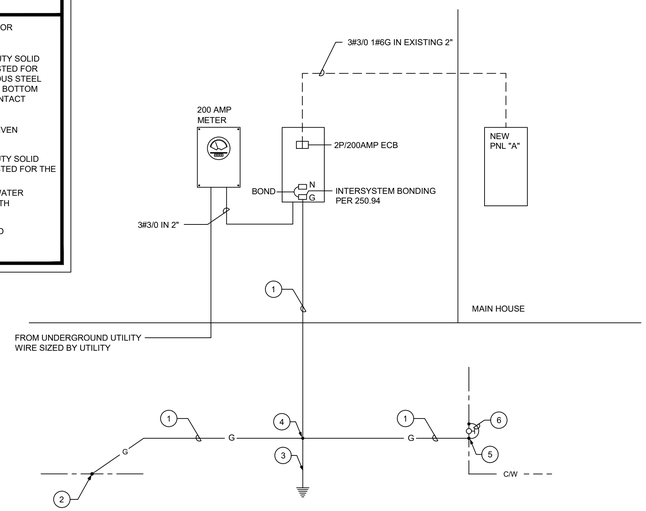
3.9	3.9	LTG & RECEPT. @ 3 WATTS
32.1	35.3	KVA PER PHASE (NON-DIVERSIFIED)
75.4		TOTAL NON-DIVERSIFIED LOAD
27.4	30.6	NON DIVERSIFIED LOAD LESS HEATING/COOLING LOADS
5.0	5.0	1ST 10 KVA @ 100%
9.0	10.3	REMAINDER @ 40%
5.9	5.9	KVA PER PHASE LARGEST (HEATING/COOLING)
19.9	21.2	TOTAL KVA PER PHASE
167	175	AMPS PER PHASE
41.1		TOTAL DIVERSIFIED KVA

* NON-CONCURRENT LOAD
(# #) LARGEST A/C LOAD
** LIGHTING & RECEPT. @ 3 WATTS/SQ. (2600 SQ. FT. x 3 VA = 7.8 KVA)

(A) AFCI - ARC FAULT CIRCUIT BREAKER
(A/G) AFCI/GFCI - DUAL FUNCTION ARC FAULT/GFCI CIRCUIT BREAKER

KEY NOTES

1. 1#2/0 GROUNDING ELECTRODE CONDUCTOR IN 3/4" SCHEDULE 40 PVC CONDUIT.
2. EXOTHERMIC CONNECTION OR HEAVY DUTY SOLID BRONZE BOLTED GROUND CLAMP U.L. LISTED FOR THE PURPOSE. ELECTRICALLY CONTINUOUS STEEL REINFORCING BAR (20FT MIN. LENGTH) IN BOTTOM OF BUILDING FOUNDATION IN DIRECT CONTACT WITH EARTH.
3. 10 FT. LONG x 3/4" DIAMETER COPPER DRIVEN GROUND ELECTRODE.
4. EXOTHERMIC CONNECTION OR HEAVY DUTY SOLID BRONZE BOLTED GROUND CLAMP U.L. LISTED FOR THE PURPOSE. (TYPICAL)
5. MAKE CONNECTION TO METALLIC COLD WATER ENTRANCE PIPE BEFORE FIRST VALVE WITH HEAVY DUTY BRONZE GROUND CLAMP.
6. PROVIDE 1#2/0 BONDING JUMPER AROUND FIRST VALVE.



ELECTRICAL RISER DIAGRAM

N.T.S.

ARKO ARCHITECTURE, LLC
2980 McFARLANE RD. SUITE 200
COCONUT GROVE, FL 33133
edgardo@thearkogroup.com
eduardo@thearkogroup.com
c: 954.647.1447
c: 305.951.6181

ADDITION & RESTORATION FOR:
MAZZINI & MELINE RESIDENCE
10300 SW 70TH AVE,
MIAMI, FL 33156

Digitally signed by Edgardo J Betancourt Santiago
Date: 2023.08.24 16:08:52-04'00'

STATE OF FLORIDA — EDGARDO J BETANCOURT SANTIAGO — AR99726 — REGISTERED ARCHITECT

DRAWN BY --
DATE 04.03.23
CHECKED BY --
PROJECT 22-84

REVISIONS

RISER AND PANEL SCHEDULES

CONSTRUCTION DOCUMENTS

E5

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G-1.00 COVER SHEET
G-1.01 GENERAL NOTES AND SPECIFICATIONS

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ELECTRICAL

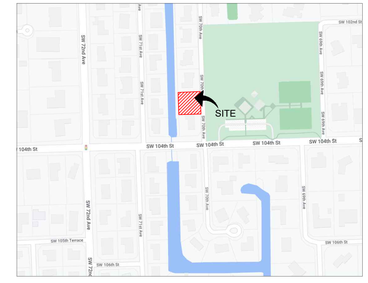
E-1 ELECTRICAL NOTES
E-2 ELECTRICAL PLAN
E-3 ELECTRICAL PLAN
E-4 RISER AND PANEL SCHEDULES

CONSULTANTS

STRUCTURAL ENGINEER
G2 CONSULTING GROUP, INC.
9725 SW 4TH TERRACE MIAMI, FL 33174
PH.: 305.401.9154
CONTACT: ERNESTO J. GARCIA

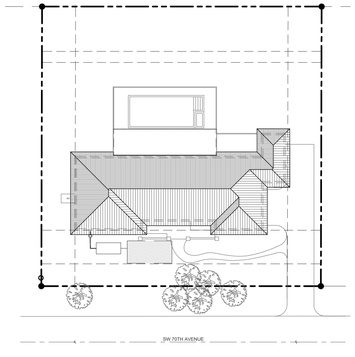
SCOPE OF WORK

INTERIOR RENOVATION - REDESIGN OF INTERIOR SPACES
EXTERIOR RENOVATION - NEW ROOF FOR THE ADDITION
ADDITION - 236 SF PRIMARY SUITE ADDITION ADDED TO THE NORTH SIDE OF THE EXISTING STRUCTURE



LOCATION MAP

SCALE: N.T.S.



KEY PLAN

SCALE: 1/32" = 1'-0"

ARKO ARCHITECTURE, LLC
2490 CORAL WAY, SUITE 301
MIAMI, FL 33145
edgardo@thearkogroup.com
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www.thearkogroup.com
p: 305.400.8133

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STATE OF FLORIDA
EDGARDO J BETANCOURT SANTIAGO
AR99726
REGISTERED ARCHITECT

DRAWN BY		
DATE	MV	PROJECT
03.29.23	CHECKED BY EV	22-84

REVISIONS

COVER SHEET

CONSTRUCTION DOCUMENTS

G-1.00

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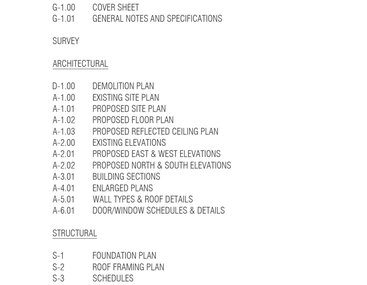

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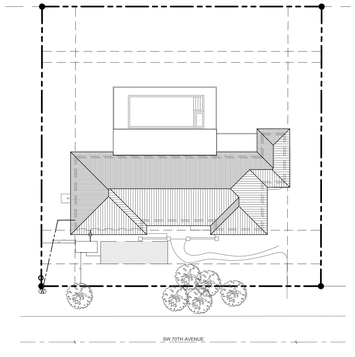

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Date: 2024.03.18 18:01:59-04'00'

STATE OF FLORIDA
EDGARDO J BETANCOURT SANTIAGO
AR99726
REGISTERED ARCHITECT

DRAWN BY
DATE 03.29.23 | MV | PROJECT 22-84
CHECKED BY EV

REVISIONS
1 03.18.24 BUILDING DEPARTMENT COMMENTS

COVER SHEET

CONSTRUCTION DOCUMENTS

G-1.00

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PART 1.0 - GENERAL

1.01 GENERAL DESIGN AND CONSTRUCTION OF THIS PROJECT SHALL BE IN COMPLIANCE WITH THE FLORIDA BUILDING CODE 2020 EDITION WITH ALL REVISIONS AND ERRATA'S APPLICABLE TO THE JURISDICTION OF WHICH IT IS BEING CONSTRUCTED IN.

1.02 THE GENERAL CONTRACTOR AS MENTIONED HEREIN, IS DEFINED AS THE ENTITY TO WHICH HAS THE CONTRACTUAL AGREEMENT WITH THE OWNER FOR THE FULL CONSTRUCTION OF THE PROJECT AND WHICH INCLUDES ANY AND ALL OTHER PARTIES CONTRACTUALLY OBLIGATED TO THE GENERAL CONTRACTOR TO COMPLETE THIS PROJECT.

1.03 THE CONTRACT DOCUMENTS ARE DESIGNED IN ACCORDANCE WITH ALL GOVERNING CODES, REGULATIONS, CITIES, MUNICIPALITIES AND BUILDING OFFICIALS HAVING JURISDICTION. THE GENERAL CONTRACTOR SHALL CONSTRUCT AND BE RESPONSIBLE FOR THE BUILDING AND ALL RELATED SITE WORK. THE CONTRACTOR SHALL COORDINATE WORK WITH EACH APPROPRIATE TRADE DISCIPLINE TO ASSURE NO CONFLICT OR OMISSION OF ANY REQUIRED OR SPECIFIED COMPONENT FOR A COMPLETE AND FUNCTIONAL PROJECT.

1.04 BEFORE COMMENCEMENT OF ANY WORK ON THE SITE, THE GENERAL CONTRACTOR AND SUBCONTRACTORS SHALL BE FAMILIAR WITH ALL THE CONDITIONS OF THIS PROJECT; THE CONTRACTORS AND SUBCONTRACTOR SHALL CAREFULLY STUDY AND COMPARE THE VARIOUS DRAWINGS AND OTHER CONTRACT DOCUMENTS RELATIVE TO THE PORTION OF THE WORK, AS WELL AS ANY INFORMATION FURNISHED BY THE OWNER. THE GENERAL CONTRACTOR AND SUBCONTRACTORS SHALL TAKE FIELD MEASUREMENTS OF ANY EXISTING CONDITIONS RELATED TO THAT PORTION OF THE WORK AND SHALL OBSERVE ANY CONDITION AT THE SITE AFFECTING IT. THESE OBLIGATIONS ARE FOR THE PURPOSE OF FACILITATING CONSTRUCTION BY THE CONTRACTORS AND ARE NOT FOR THE PURPOSE OF DISCOVERING ERRORS, OMISSIONS, AND INCONSISTENCIES IN THE CONTRACT DOCUMENTS; HOWEVER ANY ERRORS, INCONSISTENCIES OR OMISSIONS FOUND BY THE GENERAL CONTRACTOR OR SUBCONTRACTORS SHALL BE REPORTED PROMPTLY TO THE ARCHITECT. WHERE THE CONTRACTOR OR SUBCONTRACTORS ELECT NOT TO VERIFY DIMENSIONS PRIOR TO COMMENCEMENT OF ANY WORK OR NOTIFY THE ARCHITECT OF RECORD OR THE OWNER OF ANY DISCREPANCIES, THE GENERAL CONTRACTOR OR SUBCONTRACTOR WILL ASSUME ANY AND ALL LIABILITIES FOR ANY AND ALL CORRECTIONS, REPLACEMENTS AND LABOR TO MAKE-WORK IN ACCORDANCE TO CONTRACT DOCUMENTS.

1.05 GENERAL CONTRACTOR AND SUBCONTRACTORS TO PROVIDE ALL REQUIRED OR NECESSARY MATERIALS, EQUIPMENT OR COMPONENTS NECESSARY FOR A COMPLETE AND FULLY OPERATIONAL INSTALLATION, INCLUDING ALL OBVIOUSLY NECESSARY ITEMS EVEN THOUGH SUCH ITEMS ARE NOT INDICATED WITHIN THE CONSTRUCTION DOCUMENTS. ALL CONSTRUCTION METHODS, MATERIALS, ETC. SHALL MEET OR EXCEED ANY AND ALL APPLICABLE BUILDING CODES, STANDARDS AND OR ORDINANCES.

1.06 IT SHALL BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR AND SUBCONTRACTOR, TO BID AND BUILD FROM THE MOST UP-TO-DATE AND COMPLETE SET OF CONSTRUCTION DOCUMENTS. THE RELEASE AND USE OF PARTIAL SETS OF CONSTRUCTION DOCUMENTS DURING BIDDING AND/OR CONSTRUCTION SHALL NOT RELIEVE THE GENERAL CONTRACTOR OR SUBCONTRACTOR OF THEIR RESPONSIBILITY FOR THEIR WORK OR THE COORDINATION OF IT WITH WORK BY ALL TRADES.

1.07 WRITTEN DIMENSIONS GOVERN. DO NOT SCALE DRAWINGS. IF REQUIRED DIMENSIONS ARE NOT INDICATED OR DIMENSIONS CONFLICT OR SEEM TO BE IN ERROR, PROMPTLY NOTIFY THE ARCHITECT FOR RESOLUTION.

1.08 IT IS THE RESPONSIBILITY OF THE GENERAL CONTRACTOR, SUBCONTRACTOR AND ALL THEIR FORCES TO BE AWARE OF ALL COMMENTS MADE BY THE JURISDICTIONAL BUILDING DEPARTMENT UPON THE OFFICIAL SIGNED AND SEALED CONSTRUCTION DOCUMENTS. THE GENERAL CONTRACTOR SHALL MAINTAIN A PROJECT FIELD SET AND SHALL INCORPORATE ALL APPROVED CHANGES WITHIN THE SCOPE OF WORK. IT SHALL ALSO BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR AND SUBCONTRACTORS TO NOTIFY THE ARCHITECT OF ANY AND ALL FIELD CHANGES ORDERED BY THE JURISDICTIONAL INSPECTORS. THE GENERAL CONTRACTOR AND SUBCONTRACTORS SHALL COORDINATE WORK REQUIRED BY THESE DOCUMENTS WITH ALL TRADES INCLUDING AND NOT LIMITED TO STRUCTURAL, MECHANICAL, PLUMBING ELECTRICAL AND CIVIL DISCIPLINES.

1.09 STANDARDS CITED HEREIN; THE CODES, SPECIFICATIONS AND OTHER STANDARDS NOTED AND CITED IN THESE CONTRACT DOCUMENT AS PRODUCED BY THE ARCHITECT AND HIS CONSULTANTS ARE HEREIN INCORPORATED AS IF FULLY SET FORTH IN DOCUMENT. THESE NOTES PROVIDE SUPPLEMENTAL INFORMATION NECESSARY FOR THE APPLICATION OF THESE CODES, SPECIFICATIONS AND OTHER STANDARDS BY THE GENERAL CONTRACTOR AND SUBCONTRACTOR AND EMPHASIZE CERTAIN REQUIREMENTS OF THESE CODES, SPECIFICATIONS AND STANDARDS. THESE NOTES SHALL NOT BE CONSTRUED BY ANYONE TO BE ALL-INCLUSIVE OF, OR TO REPLACE OR ALLEVIATE, IN WHOLE OR PART, ANY OF THE CODES, SPECIFICATIONS AND STANDARDS CITED HEREIN. THE GENERAL CONTRACTOR AND SUBCONTRACTORS SHALL BE KNOWLEDGEABLE OF, AND SHALL AVAIL THEMSELVES TO THESE CODES SPECIFICATIONS AND OTHER STANDARDS AND APPLY THEM TO THE WORK.

1.10 SUBSTITUTIONS RECEIVED AFTER BIDDING WILL BE REVIEWED AT THE DISCRETION OF THE ARCHITECT. ALL SUBSTITUTIONS MUST BE EQUAL OR BETTER THAN ITEM SPECIFIED DEMONSTRATING COMPATIBILITY OF PERFORMANCE, OPERATION AND AESTHETIC QUALITY TO THAT OF THE SPECIFIED ITEM.
SUBSTITUTIONS MUST BE SUBMITTED TO THE ARCHITECT IN THE FORM OF AN "ALTERNATE TO CONSTRUCTION DOCUMENTS SPECIFICATION" LETTER STATING EACH ITEM TO BE SUBSTITUTED, ALONG WITH CUT SHEETS FOR BOTH THE SPECIFIED PRODUCT AND ALTERNATE. ALLOW TEN (10) DAYS REVIEW PERIOD FROM ARCHITECT'S RECEIPT OF SUBSTITUTION SUBMITTAL. ARCHITECT WILL DETERMINE ACCEPTABILITY OF ANY AND ALL SUBSTITUTIONS. *ALL APPROVALS FOR SUBSTITUTIONS MUST BE OBTAINED PRIOR TO SUBMITTAL FOR SHOP DRAWING REVIEW*. THE CONTRACTOR AND SUBCONTRACTORS BEAR ALL ADDITIONAL COSTS OF UNACCEPTABLE SUBSTITUTION IF USED IN ORIGINAL BID BEARS ALL ADDITIONAL COST FOR REMEDY IF UNAPPROVED SUBSTITUTION IS UTILIZED, DISCOVERED AND UNACCEPTABLE. SUBSTITUTIONS WILL NOT BE CONSIDERED DUE TO SUB-CONTRACTORS LACK OF PROPER AND TIMELY ORDERING, SCHEDULING AND/OR PLANNING.

1.11 SUBMIT FIVE (2) COPIES OF ALL SHOP DRAWINGS AND SIX (2) COPIES OF ALL PRODUCT SUBMITTALS REQUESTED BY THE ARCHITECT AND/OR THE JURISDICTIONAL AUTHORITY AND/OR GENERAL CONTRACTOR, REQUIRED FOR ALL CUSTOM FABRICATED WORK OR AS REQUESTED HEREIN. A MINIMUM OF TEN (10) WORKING DAYS SHOULD BE ESTIMATED FOR PROPER REVIEW OF SHOP DRAWINGS AND SUBMITTALS.

1.12 THE FOLLOWING SHOP DRAWINGS WILL BE REQUIRED FOR THE RELATED WORK (THE PRODUCTION OF THE REQUIRED SHOP DRAWING SHALL NOT BE CONSIDERED ANY EXTRA) THE FOLLOWING PRODUCT SUBMITTAL CUT SHEETS WILL BE REQUIRED FOR THE RELATED WORK: ELECTRICAL SWITCHGEAR, LIGHTING, FIRE ALARM, HVAC EQUIPMENT, ROOF MEMBRANE, INSULATION AND FLASHINGS, CONCRETE, DOOR AND HARDWARE, RESTROOM ACCESSORIES AND FINISHES, STRUCTURAL STEEL, REINFORCED STEEL, MISCELLANEOUS STEEL, GLAZING SYSTEMS, CONCRETE, PLUMBING, WATERPROOFING SYSTEMS, MILLWORK, FIRE SPRINKLER, FOUNTAINS / FOUNTAIN COMPONENTS AND EXTERIOR FINISH.

1.13 THE GENERAL CONTRACTOR AND SUBCONTRACTORS SHALL ACQUIRE ALL NECESSARY PRODUCT APPROVALS USED AND INSTALLED ON THIS PROJECT AS WELL AS ANY ADDITIONAL COUNTY AND LOCAL JURISDICTION REQUIRING ADDITIONAL DATA, CALCULATIONS SIGNED AND SEALED BY A FLORIDA REGISTERED STRUCTURAL ENGINEER TO CERTIFY APPLICATION OF SAID PRODUCT IN ACCORDANCE TO THE CODE HAVING JURISDICTION.

1.14 IT SHALL BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR AND SUBCONTRACTORS TO REVIEW ALL SHOP DRAWINGS AND SUBMITTALS *PRIOR* TO SUBMITTING SAME TO THE ARCHITECT. THE GENERAL CONTRACTOR AND SUBCONTRACTORS ARE RESPONSIBLE FOR FIELD VERIFYING ACTUAL EXISTING CONDITIONS RELATING TO SHOP DRAWINGS AND/OR SUBMITTALS.

1.15 WORK SHALL NOT COMMENCE WITHOUT RELATED SHOP DRAWINGS AND/OR SUBMITTALS BEING APPROVED. THE GENERAL CONTRACTOR AND SUBCONTRACTORS BEAR RESPONSIBILITY OF ALL COSTS IF CHANGES ARE REQUIRED OF WORK THAT HAS BEEN PERFORMED WITHOUT PRIOR REVIEW AND APPROVAL OF SHOP DRAWINGS AND/OR SUBMITTALS.

1.16 ALL MATERIALS SHALL BE NEW, FREE OF ALL DEFECTS AND SUITABLE FOR THE INTENDED USE AND INSTALLED IN ACCORDANCE WITH MANUFACTURERS REQUIREMENTS AND INDUSTRY STANDARDS.

1.17 THE GENERAL CONTRACTOR AND SUBCONTRACTOR SHALL PREPARE AND MAINTAIN THROUGH-OUT THE LENGTH OF CONSTRUCTION A FULL AND CURRENT SET OF ACCURATE "AS-BUILT" DRAWINGS. UPON COMPLETION OF THIS PROJECT SUCH DRAWINGS WILL BE PRESENTED TO THE OWNER FOR HIS PERMANENT RECORDS AND INFORMATION.

PART - 2.0 - SITE WORK

2.01 REFER TO THE CONSTRUCTION DOCUMENTS FOR ALL REQUIREMENTS AND STANDARDS.
2.02 THE SOIL PAD UNDER ALL NEW INTERIOR FLOOR SLABS AND ALL FOUNDATION WALLS SHALL RECEIVE AN APPLIED SOIL POISONING TREATMENT TO PREVENT THE INFESTATION OF SUBTERRANEAN TERMITES. PROVIDE MATERIAL AND CHEMICALS APPROVED BY APA FOR THIS TYPE OF APPLICATION.

PART 3.0 - CONCRETE

3.01 REFER TO THE CONSTRUCTION DOCUMENTS / STRUCTURAL DRAWINGS FOR ALL REQUIREMENTS AND STANDARDS RELATING TO CONCRETE.
3.02 INTERIOR CONCRETE FLOOR SLABS SHALL HAVE A SMOOTH STEEL TROWELED FLAT FINISH, HARDWARE AND SEALERS AS PER PLANS.
3.03 EXTERIOR CONCRETE SLABS SHALL RECEIVE LIGHT BROOM FINISH.
3.04 CONCRETE CONSTRUCTION JOINTS SHALL BE KEYED, AND EXPANSION JOINT FILLER INSTALLED IN A MANNER AS PER ACSI AND ACI STANDARDS.

PART 4.0 - CONCRETE MASONRY UNITS

4.01 PROVIDE AND INSTALL ALL CONCRETE MASONRY UNITS, MORTAR REINFORCEMENTS AND RELATED MATERIALS REQUIRED FOR THIS WORK AS DESCRIBED IN THE CONSTRUCTION DOCUMENTS / STRUCTURAL DRAWINGS.

PART 5.0 - METALS

5.01 PROVIDE ALL STRUCTURAL STEEL, MISCELLANEOUS METALS, METAL DECKING, PLATES, BOLTS, ETC., REQUIRED FOR THIS WORK AS DESCRIBED IN THE CONSTRUCTION DOCUMENTS / STRUCTURAL DRAWINGS OR REQUIRED FOR A COMPLETE AND OPERATIONAL FACILITY.
5.02 ALL MATERIALS SHALL BE NEW, SUITABLE FOR THE INTENDED USE AND INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS AND APPROVED SHOP DRAWINGS.
5.03 ALL STRUCTURAL STEEL STUDS SHALL BE GALVANIZED, SIZES AND GAUGE AS INDICATED IN THE CONSTRUCTION DOCUMENTS.
5.04 ALL EXPOSED STEEL USED AS STRUCTURAL, DECORATIVE OR ARCHITECTURAL FEATURES SHALL BE MIN. G-90 GALVANIZED. FASTENERS USED IN EXPOSED CONDITION SHALL BE GALVANIZED UNLESS OTHERWISE INDICATE TO BE STAINLESS STEEL.

PART 6.0 - WOOD

6.01 PROVIDE ALL REQUIRED, NAILS, BOLTS, SCREWS, FRAMING ANCHORS, AND THE LIKE ITEMS NEEDED FOR ROUGH AND FINISHED CARPENTRY IN THIS WORK AS DESCRIBED IN THE CONSTRUCTION DOCUMENTS OR REQUIRED FOR A COMPLETE AND OPERABLE FACILITY.
6.03 ALL WOOD USED IN CONNECTION WITH ROOFING, FLASHING, WATERPROOFING, ALL MEMBERS IN CONTACT WITH MASONRY, AND ALL MEMBERS LESS THAN 24" ABOVE THE GROUND SHALL BE PRESSURE TREATED.
6.04 SECURELY ATTACH CARPENTRY WORK TO SUBSTRATES BY ANCHORING AND FASTENING AS INDICATED AND AS REQUIRED BY RECOGNIZED STANDARDS.
6.05 PROVIDE FIRE TREATED WOOD STUD EACH SIDE OF ALL RECESSED EQUIPMENT AND ACCESSORIES, DOOR JAMBS, ETC.
6.06 PROVIDE WOOD GROUNDS, NAILERS AND SLEEPERS WHERE INDICATED ON DRAWINGS AND AS REQUIRED. PROVIDE ALL WORKMANSHIP IN ACCORDANCE WITH (AWI) AMERICAN WOODWORKING INSTITUTE AND (WIC) WOOD INSTITUTE OF CALIFORNIA, QUALITY STANDARDS.
6.07 WHERE WOOD IS REQUIRED AND IS CONCEALED SAID WOOD MUST BE FIRE RETARDANT TREATED WOOD.

PART 7.0 - THERMAL & MOISTURE PROTECTION

7.01 ALL NEW SLAB ON GRADE FLOORS TO BE UNDERLAYED WITH A VAPOR BARRIER. VAPOR BARRIER SHALL BE MIN. 6 MIL ("VISQUEEN") POLYETHYLENE AND LOCATED BELOW ALL INTERIOR FLOOR SLABS, WITH OVERLAPPING OF MATERIAL NOT LESS THAN SIX INCHES (6") AND TAPPED SEALED.

7.02 PROVIDE ALL INSULATION WITH AN (AGED) R-VALUE. AS SPECIFIED WITHOUT GAPS OR VOIDS USING NEW AND UNDAMAGED MATERIALS.

FI-FOIL COMPANY, PO BOX 800, AUBURNDALE, FLORIDA 33823. TOLL FREE (800) 448-3401. PHONE (863) 965-1846. FAX (863) 967-0137. WEB SITE WWW.FIFOIL.COM. E-MAIL CUSTSERV@FIFOIL.COM.

REFLECTIVE INSULATION: FI-FOIL VR PLUS SHIELD. SUBMIT MANUFACTURER'S PRODUCT DATA, INCLUDING INSTALLATION INSTRUCTIONS. INDICATE COMPLIANCE WITH MATERIAL REQUIREMENTS.

7.05 GAF EVERGUARD TPO ROOFING SPECIFICATIONS

PART 1 GENERAL
1.01 SUMMARY
A. SECTION INCLUDES
1. THERMOPLASTIC POLYOLEFIN SINGLE-PLY ROOFING MEMBRANE
2. THERMOPLASTIC POLYOLEFIN FLASHINGS
3. THERMOPLASTIC POLYOLEFIN ACCESSORIES
4. INSULATION
B. RELATED SECTIONS
1. SECTION 06100: ROUGH CARPENTRY
2. SECTION 07620: SHEET METAL FLASHING AND TRIM
3. SECTION 15430: PLUMBING SPECIALTIES
1.02 REFERENCES
A. AMERICAN SOCIETY FOR TESTING AND MATERIALS (ASTM) - *ANNUAL BOOK OF ASTM STANDARDS*
1. ASTM D-751 - STANDARD TEST METHODS FOR COATED FABRICS
2. ASTM D-2137 - STANDARD TEST METHODS FOR RUBBER PROPERTY--BRITTLENESS POINT OF FLEXIBLE POLYMERS AND COATED FABRICS
3. ASTM E-96 - STANDARD TEST METHODS FOR WATER VAPOR TRANSMISSION OF MATERIALS
4. ASTM D1204 - STANDARD TEST METHOD FOR LINEAR DIMENSIONAL CHANGES OF NONRIGID THERMOPLASTIC SHEETING OR FILM AT ELEVATED TEMPERATURE
5. ASTM D-471 - STANDARD TEST METHOD FOR RUBBER PROPERTY--EFFECT OF LIQUIDS
6. ASTM D-1149 - STANDARD TEST METHODS FOR RUBBER DETERIORATION--CRACKING IN AN OZONE CONTROLLED ENVIRONMENT
7. ASTM C-1549 - STANDARD TEST METHOD FOR DETERMINATION OF SOLAR REFLECTANCE NEAR AMBIENT TEMPERATURE USING A PORTABLE SOLAR REFLECTOMETER
8. ASTM C-1371 - STANDARD TEST METHOD FOR DETERMINATION OF EMITTANCE OF MATERIALS NEAR ROOM TEMPERATURE USING PORTABLE EMISSOMETERS
9. ASTM E 903 - STANDARD TEST METHOD FOR SOLAR ABSORPTANCE, REFLECTANCE, AND TRANSMISSION OF MATERIALS USING INTEGRATING SPHERES
10. ASTM G155 - STANDARD PRACTICE FOR OPERATING XENON ARC LIGHT APPARATUS FOR EXPOSURE OF NON-METALLIC MATERIALS
11. ASTM D573 - STANDARD TEST METHOD FOR RUBBER - DETERIORATION IN AN AIR OVEN
B. SHEET METAL AND AIR CONDITIONING CONTRACTORS NATIONAL ASSOCIATION, INC. (SMACNA) - *ARCHITECTURAL SHEET METAL MANUAL*
C. NATIONAL ROOFING CONTRACTORS ASSOCIATION (NRCA)
D. AMERICAN SOCIETY OF CIVIL ENGINEERS (ASCE)
E. U.S. GREEN BUILDING COUNCIL (USGBC)
1. LEADERSHIP IN ENERGY AND ENVIRONMENTAL DESIGN (LEED)
F. FACTORY MUTUAL (FM GLOBAL) - *APPROVAL GUIDE*
G. UNDERWRITERS LABORATORIES (UL) - *ROOFING SYSTEMS AND MATERIALS GUIDE* (TGFU R1306)
H. CALIFORNIA TITLE 24 ENERGY EFFICIENT STANDARDS
I. ENERGY STAR
J. COOL ROOFING RATING COUNCIL (CRRC)
K. MIAMI-DADE COUNTY
1.03 DEFINITIONS
A. ROOFING TERMINOLOGY: REFER TO ASTM D1079 AND THE GLOSSARY OF THE NATIONAL ROOFING CONTRACTORS ASSOCIATION (NRCA) *ROOFING AND WATERPROOFING MANUAL* FOR DEFINITIONS OF ROOFING TERMS RELATED TO THIS SECTION.
1.04 SUBMITTALS
A. PRODUCT DATA: PROVIDE PRODUCT DATA SHEETS FOR EACH TYPE OF PRODUCT INDICATED IN THIS SECTION.
B. SHOP DRAWINGS: PROVIDE MANUFACTURERS STANDARD DETAILS AND APPROVED SHOP DRAWINGS FOR THE ROOF SYSTEM SPECIFIED.
C. SAMPLES: PROVIDE SAMPLES OF INSULATIONS, FASTENERS, MEMBRANE MATERIALS AND ACCESSORIES FOR VERIFICATION OF QUALITY.
D. CERTIFICATES: INSTALLER SHALL PROVIDE WRITTEN DOCUMENTATION FROM THE MANUFACTURER OF THEIR AUTHORIZATION TO INSTALL THE ROOF SYSTEM, AND ELIGIBILITY TO OBTAIN THE WARRANTY SPECIFIED IN THIS SECTION.
1.05 QUALITY ASSURANCE
A. MANUFACTURER'S QUALIFICATIONS: GAF SHALL PROVIDE A ROOFING SYSTEM THAT MEETS OR EXCEEDS ALL CRITERIA LISTED IN THIS SECTION.
B. INSTALLER'S QUALIFICATIONS:
1. INSTALLER SHALL BE CLASSIFIED AS A *MASTER OR MASTER SELECT* CONTRACTOR AS DEFINED AND CERTIFIED BY GAF.
C. SOURCE LIMITATIONS: ALL COMPONENTS LISTED IN THIS SECTION SHALL BE PROVIDED BY A SINGLE MANUFACTURER OR APPROVED BY THE PRIMARY ROOFING MANUFACTURER.
D. FINAL INSPECTION
MANUFACTURER'S REPRESENTATIVE SHALL PROVIDE A COMPREHENSIVE FINAL INSPECTION AFTER COMPLETION OF THE ROOF SYSTEM. ALL APPLICATION ERRORS MUST BE ADDRESSED AND FINAL PUNCH LIST COMPLETED.
1.06 PRE-INSTALLATION CONFERENCE
A. PRIOR TO SCHEDULED COMMENCEMENT OF THE ROOFING INSTALLATION AND ASSOCIATED WORK, CONDUCT A MEETING AT THE PROJECT SITE WITH THE INSTALLER, ARCHITECT, OWNER, GAF REPRESENTATIVE AND ANY OTHER PERSONS DIRECTLY INVOLVED WITH THE PERFORMANCE OF THE WORK. THE INSTALLER SHALL RECORD CONFERENCE DISCUSSIONS TO INCLUDE DECISIONS AND AGREEMENTS REACHED (OR DISAGREEMENTS), AND FURNISH COPIES OF RECORDED DISCUSSIONS TO EACH ATTENDING PARTY. THE MAIN PURPOSE OF THIS MEETING IS TO REVIEW FORESEEABLE METHODS AND PROCEDURES RELATED TO ROOFING WORK.
1.07 PERFORMANCE REQUIREMENTS
A. PROVIDE AN INSTALLED ROOFING MEMBRANE AND BASE FLASHING SYSTEM THAT DOES NOT PERMIT THE PASSAGE OF WATER, AND WILL WITHSTAND THE DESIGN PRESSURES CALCULATED IN ACCORDANCE WITH THE MOST CURRENT REVISION OF ASCE 7.
B. GAF SHALL PROVIDE ALL PRIMARY ROOFING MATERIALS THAT ARE PHYSICALLY AND CHEMICALLY COMPATIBLE WHEN INSTALLED IN ACCORDANCE WITH MANUFACTURERS CURRENT APPLICATION REQUIREMENTS.
1.08 REGULATORY REQUIREMENTS
A. ALL WORK SHALL BE PERFORMED IN A SAFE, PROFESSIONAL MANNER, CONFORMING TO ALL FEDERAL, STATE AND LOCAL CODES.
1.09 DELIVERY, STORAGE AND HANDLING
A. DELIVER ALL ROOFING MATERIALS TO THE SITE IN ORIGINAL CONTAINERS, WITH FACTORY SEALS INTACT. ALL PRODUCTS ARE TO CARRY A GAF® LABEL.
B. STORE ALL PAIL GOODS IN THEIR ORIGINAL UNDAMAGED CONTAINERS IN A CLEAN, DRY LOCATION WITHIN THEIR SPECIFIED TEMPERATURE RANGE.
C. DO NOT EXPOSE MATERIALS TO MOISTURE IN ANY FORM BEFORE, DURING, OR AFTER DELIVERY TO THE SITE. REJECT DELIVERY OF MATERIALS THAT SHOW EVIDENCE OF CONTACT WITH MOISTURE.
D. REMOVE MANUFACTURER SUPPLIED PLASTIC COVERS FROM MATERIALS PROVIDED WITH SUCH. USE "BREATHABLE" TYPE COVERS SUCH AS CANVAS TARPAULINS TO ALLOW VENTING AND PROTECTION FROM WEATHER AND MOISTURE. COVER AND PROTECT MATERIALS AT THE END OF EACH WORK DAY. DO NOT REMOVE ANY PROTECTIVE TARPAULINS UNTIL IMMEDIATELY BEFORE THE MATERIAL WILL BE INSTALLED.
E. MATERIALS SHALL BE STORED ABOVE 55°F (12.6°C) A MINIMUM OF 24 HOURS PRIOR TO APPLICATION.
1.10 PROJECT CONDITIONS
A. WEATHER
1. PROCEED WITH ROOFING ONLY WHEN EXISTING AND FORECASTED WEATHER CONDITIONS PERMIT.
2. AMBIENT TEMPERATURES MUST BE ABOVE 45°F (7.2°C) WHEN APPLYING HOT ASPHALT OR WATER BASED ADHESIVES.
WARRANTY ***CHOOSE ONE WARRANTY***

B. PROVIDE MANUFACTURERS STANDARD EVERGUARD® DIAMOND PLEDGE GUARANTEE WITH SINGLE SOURCE COVERAGE AND NO MONETARY LIMITATION WHERE THE MANUFACTURER AGREES TO REPAIR OR REPLACE COMPONENTS IN THE ROOFING SYSTEM, WHICH CAUSE A LEAK DUE TO A FAILURE IN MATERIALS OR WORKMANSHIP.
1. DURATION: UP TO TWENTY (20) ***CHOOSE ONE*** YEARS FROM THE DATE OF COMPLETION.
*MATERIALS AND WORKMANSHIP OF LISTED PRODUCTS WITHIN THIS SECTION WHEN INSTALLED IN ACCORDANCE WITH CURRENT GAF APPLICATION AND SPECIFICATION REQUIREMENTS. CONTACT GAF CONTRACTOR SERVICES FOR THE FULL TERMS AND CONDITIONS OF THE GUARANTEE.

PART 2 PRODUCTS
2.01 ACCEPTABLE MANUFACTURER
A. GAF® - 1 CAMPUS DRIVE, PARSIPPANY, NJ 07054
2.02 INSULATION
A. RIGID POLYISOCYANURATE BOARD, WITH A GLASS-REINFORCED CELLULOSIC FELT FACER. CONFORMS TO OR EXCEEDS THE REQUIREMENTS OF ASTM C 1289 TYPE II, CLASS 1, GRADE 2. ENERGYGUARD™ POLYISO INSULATION, WITH THE FOLLOWING CHARACTERISTICS:
1. BOARD THICKNESS: INSERT THICKNESS
2. THERMAL RESISTANCE (LTTR VALUE) OF: PLEASE REFER TO THE ENERGYGUARD™ POLYISO INSULATION DATA SHEET
3. COMPRESSIVE STRENGTH: 20 PSI
B. RIGID POLYISOCYANURATE BOARD, WITH A GLASS-REINFORCED CELLULOSIC FELT FACER. CONFORMS TO OR EXCEEDS THE REQUIREMENTS OF ASTM C 1289 TYPE II, CLASS 1, GRADE 2. ENERGYGUARD™ POLYISO INSULATION, WITH THE FOLLOWING CHARACTERISTICS:
1. BOARD THICKNESS: INSERT THICKNESS
2. THERMAL RESISTANCE (LTTR VALUE) OF: PLEASE REFER TO THE ENERGYGUARD™ POLYISO INSULATION DATA SHEET
3. COMPRESSIVE STRENGTH: 20 PSI
2.03 MEMBRANE MATERIALS ***CHOOSE APPROPRIATE PRODUCTS***
A. A SMOOTH TYPE, POLYESTER SCRIM REINFORCED THERMOPLASTIC POLYOLEFIN MEMBRANE WITH A NOMINAL 0.060 INCH (60 MIL) THICKNESS, FOR USE AS A SINGLE PLY ROOFING MEMBRANE. MEETS OR EXCEEDS THE MINIMUM REQUIREMENTS OF ASTM D-6878. UL LISTED, FM APPROVED, DADE COUNTY PRODUCT APPROVAL, FLORIDA BUILDING CODE APPROVED. WHITE MEMBRANE IS ENERGY STAR LISTED, CRRC LISTED AND TITLE 24 COMPLIANT. EVERGUARD® TPO 60 MIL THERMOPLASTIC SINGLE-PLY ROOFING MEMBRANE BY GAF.
1. 10' X 100', EACH ROLL CONTAINS 1000 SQ. FT. OF ROOFING MATERIAL WEIGHING 322 LBS. EACH HALF SHEET ROLL CONTAINS APPROXIMATELY 500 SQ. FT. OF ROOFING MATERIAL, 5' X 100', WEIGHING 162 LBS. HALF SHEET ROLL REQUIRED FOR ROOF PERIMETER USE IN MECHANICALLY ATTACHED SYSTEMS.
a) AVAILABLE STOCK COLORS: WHITE
2.04 FLASHING MATERIALS ***CHOOSE APPROPRIATE PRODUCTS***
A. A SMOOTH TYPE, POLYESTER SCRIM REINFORCED THERMOPLASTIC POLYOLEFIN MEMBRANE WITH A NOMINAL 0.060 INCH (60 MIL) THICKNESS, FOR USE AS A SINGLE PLY ROOFING MEMBRANE. MEETS OR EXCEEDS THE MINIMUM REQUIREMENTS OF ASTM D-6878. UL LISTED, FM APPROVED, DADE COUNTY PRODUCT APPROVAL, FLORIDA BUILDING CODE APPROVED. WHITE MEMBRANE IS ENERGY STAR LISTED, CRRC LISTED AND TITLE 24 COMPLIANT. EVERGUARD® TPO 60 MIL THERMOPLASTIC SINGLE-PLY ROOFING MEMBRANE BY GAF.
2.05 ADHESIVES, SEALANTS AND PRIMERS
A. SOLVENT-BASED BONDING ADHESIVE: SOLVENT BASED RUBBERIZED ADHESIVE FOR USE WITH EVERGUARD TPO MEMBRANES, EVERGUARD® 1121 BONDING ADHESIVE, BY GAF.
2.06 ACCESSORIES
A. MECHANICAL FASTENERS
1. DRILLTEC™ STANDARD SCREWS: STANDARD DUTY ALLOY STEEL INSULATION FASTENER WITH CR-10 COATING WITH A .220" DIAMETER THREAD. FACTORY MUTUAL STANDARD 4470 APPROVED, #3 PHILLIPS HEAD FOR USE ON STEEL AND WOOD DECKS.
2. DRILLTEC™ HD SCREWS: HEAVY GAUGE ALLOY STEEL FASTENER WITH CR-10 COATING WITH A .245" (6.2 MM) DIAMETER THREAD. MIAMI DADE AND FACTORY MUTUAL STANDARD 4470 APPROVED, #3 PHILLIPS TRUSS HEAD FOR USE ON WOOD, CONCRETE AND STEEL DECKS.
3. DRILLTEC™ XHD SCREWS: HEAVY GAUGE ALLOY STEEL FASTENER WITH CR-10 COATING WITH A .275" (6.9 MM) DIAMETER THREAD. FACTORY MUTUAL STANDARD 4470 APPROVED, #3 PHILLIPS TRUSS HEAD FOR USE ON HEAVY STEEL DECKS, O.S.B OR ALUMINUM ROOF DECKS.
4. DRILLTEC™ INSULATION PLATES: GALVALUME, 3" (76 MM) DIAMETER, SUITABLE FOR USE WITH DRILLTEC™ STANDARD AND HD SCREWS, AND DRILLTEC™ SPIKES. SPECIAL DESIGN AVAILABLE FOR USE WITH DRILLTEC™ POLYMER SCREWS.
5. DRILLTEC™ XHD PLATES: GALVALUME, 2 3/8" (60 MM) DIAMETER, WITH A BARBED UNDERSIDE. SUITABLE FOR USE WITH DRILLTEC™ STANDARD, HD, AND XHD SCREWS, PURLIN FASTENERS AND DRILLTEC™ SPIKES.
B. FLASHING ACCESSORIES
1. A SMOOTH TYPE, UNREINFORCED THERMOPLASTIC POLYOLEFIN BASED MEMBRANE FOR USE AS AN ALTERNATIVE FLASHING/REINFORCING MATERIAL FOR PENETRATIONS AND CORNERS. REQUIRED WHENEVER PREFORMED VENT BOOTS CANNOT BE USED, AVAILABLE IN WHITE, TAN, GRAY, REGAL RED, REGAL BLUE, AND HARTFORD GREEN, 0.055 INCHES (55 MILS) NOMINAL THICKNESS AND SHEET SIZE: 24IN X 50FT. EVERGUARD TPO DETAILING MEMBRANE, BY GAF.
2. AN 8 INCH (20 CM) WIDE SMOOTH TYPE, POLYESTER SCRIM REINFORCED THERMOPLASTIC POLYOLEFIN MEMBRANE STRIP FOR USE AS A COVER STRIP OVER COATED METAL AND STRIPPING-IN COATED METAL FLANGES AND GENERAL REPAIRS: 0.045 INCHES (45 MILS) NOMINAL THICKNESS WITH 100 FOOT LENGTH, AVAILABLE IN WHITE, TAN, GRAY, REGAL RED, REGAL BLUE, AND HARTFORD GREEN EVERGUARD TPO FLASHING MEMBRANE, BY GAF.
3. EXTRUDED ALUMINUM TERMINATION BAR WITH ANGLED LIP CAULK RECEIVER AND LOWER LEG BULB STIFFENER. PRE-PUNCHED SLOTTED HOLES AT 6" ON CENTER OR 8" ON CENTER. ¾" X 10' WITH 0.090" CROSS SECTION, DRILL-TEC™ TERMINATION BAR, BY GAF.
4. A 6 INCH (14 CM) WIDE, SMOOTH TYPE, HEAT-WELDABLE POLYESTER SCRIM REINFORCED THERMOPLASTIC POLYOLEFIN MEMBRANE STRIP. DESIGNED FOR USE AS A COVER STRIP OVER NON-COATED METAL EDGES AND FLANGES. EACH FULL ROLL CONTAINS APPROXIMATELY 100 LINEAL FT. OF MATERIAL, 6" X 100'. EVERGUARD TPO HEAT-WELD COVER TAPE, BY GAF.
5. .045" REINFORCED TPO MEMBRANE WITH PRESSURE SENSITIVE ADHESIVE, TO BE INSTALLED ON HORIZONTAL SURFACES USING PLATES AND FASTENERS AS A BASE ATTACHMENT IN FULLY ADHERED SYSTEMS. SIZE 6" X 100', EVERGUARD® RTA (ROOF TRANSITION ANCHOR) STRIP™, BY GAF
6. 24 GAUGE STEEL WITH 0.025" THICK TPO BASED FILM AS REQUIRED FOR FABRICATION INTO METAL GRAVEL STOP AND DRIP EDGE PROFILES, METAL BASE AND CURB FLASHINGS, SEALANT PANS, AND SCUPPER SLEEVES. STANDARD SHEET SIZE 4' X 10', SHEET WEIGHT 47 LBS. CUSTOM SIZES AVAILABLE, EVERGUARD® TPO COATED METAL, BY GAF.
a) AVAILABLE STOCK COLORS: WHITE
C. PENETRATION ACCESSORIES
1. 0.075" THICK MOLDED TPO MEMBRANE SIZED TO ACCOMMODATE MOST COMMON PIPE AND CONDUITS, (1" TO 6" DIAMETER PIPES), INCLUDING SQUARE TUBE. HOT-AIR WELDED DIRECTLY TO EVERGUARD TPO MEMBRANE, SUPPLIED WITH STAINLESS STEEL CLAMPING RINGS, EVERGUARD® TPO PREFORMED VENT BOOTS BY GAF.
2. 0.045" THICK MOLDED TPO MEMBRANE PREFORMED BOOTS ARE SPLIT TO ACCOMMODATE MOST COMMON PIPES AND CONDUITS AND AVAILABLE IN THREE STANDARD SIZES, EVERGUARD® TPO SPLIT PIPE BOOTS, BY GAF.
3. 0.045" THICK MOLDED TPO MEMBRANE PREFORMED SQUARE BOOTS ARE SPLIT TO ACCOMMODATE MOST COMMON SQUARE PENETRATIONS AND CONDUITS AND AVAILABLE IN THREE STANDARD SIZES, EVERGUARD® TPO SQUARE TUBE WRAPS, BY GAF.
4. .070 THICK MOLDED PENETRATION POCKET TO PROVIDE STRUCTURE AND FOUNDATION FOR THE APPLICATION OF A POURABLE SEALANT FOR A VARIETY OF ROOF PENETRATIONS, WELDABLE AND 9" X 6" X 4" (L X W X H). EVERGUARD® TPO POURABLE SEALER POCKET
5. CONSTRUCTED FROM SPUN ALUMINUM AND PREFLASHED USING .055" THICK SMOOTH TYPE, UNREINFORCED THERMOPLASTIC POLYOLEFIN MEMBRANE. AVAILABLE IN A WIDE RANGE OF SIZES TO ALLOW A PROPER FIT INTO ANY SIZE ROOFING DRAIN. EVERGUARD® TPO DRAIN BY GAF
6. ALUMINUM DRAIN UNIT COATED WITH A WELDABLE TPO COMPOUND. TPO MEMBRANE CAN BE HEAT WELDED DIRECTLY TO THE DRAIN BODY, RESULTING IN A STRONG, SECURE INSTALLATION. EACH DRAIN IS FITTED WITH A BLUESEAL® MECHANICAL DRAIN SEAL FOR A SECURE, TIGHT SEAL INTO THE BUILDING DRAIN SYSTEM. AVAILABLE IN TWO SIZES (3" AND 4"), AND CUSTOM SIZES ARE AVAILABLE. EVERGUARD® TPO COATED METAL DRAIN BY GAF®
D. ROOF EDGE ACCESSORIES
1. COPING SYSTEM WITH PRE-PUNCHED HOLES AND SNAP-ON DESIGN. CONTAINS A METAL CLIP THAT FUNCTIONS AS A GUTTER TO HELP CHANNEL WATER BACK ONTO THE ROOF. AVAILABLE FOR WALL SIZES 4" TO 32" (102 MM - 813 MM). M-WELD™ SNAP-ON COPING (CONTAINS 20 GAUGE CLIP) OR M-WELD™ SNAP-ON COPING PLUS (CONTAINS 16 GAUGE CLIP) BY GAF®.
2. THREE PIECE FASCIA SYSTEM WITH CONTINUOUS GALVANIZED STEEL SPRING CANT, EXTERIOR DECORATIVE SNAP-ON FASCIA AND AVAILABLE IN 10 FOOT LENGTHS IN STANDARD OR CUSTOM COLORS, EVERGUARD® SNAP-ON FASCIA BY GAF®.
3. TWO PIECE FASCIA SYSTEM WITH RIGID TERMINATOR BASE PLATE AND EXTERIOR DECORATIVE FASCIA COVER AVAILABLE IN 10 FOOT LENGTHS IN STANDARD OR CUSTOM COLORS FOR USE WITH 45 MIL AND 60 MIL ONLY, EVERGUARD® EZ FASCIA BY GAF®.
4. TWO PIECE FASCIA SYSTEM WITH RIGID EXTRUDED TERMINATOR BASE PLATE AND EXTERIOR DECORATIVE SNAP-ON FASCIA COVER AVAILABLE IN 10 FOOT LENGTHS IN STANDARD OR CUSTOM COLORS, EVERGUARD® EZ FASCIA EX BY GAF®.
E. FIELD OF ROOF ACCESSORIES
1. PRE-MANUFACTURED EXPANSION JOINT COVERS USED TO BRIDGE EXPANSION JOINT OPENINGS IN A ROOF STRUCTURE. FABRICATED TO ACCOMMODATE ALL ROOF TO WALL AND ROOF TO ROOF APPLICATIONS, MADE OF .060" REINFORCED TPO MEMBRANE, AVAILABLE IN 5 STANDARD SIZES FOR EXPANSION JOINT OPENINGS UP TO 8" WIDE. EVERGUARD® TPO EXPANSION JOINT COVERS, BY GAF
2. .055" THICK SMOOTH TYPE, UNREINFORCED THERMOPLASTIC POLYOLEFIN MEMBRANE DESIGNED FOR USE AS A CONFORMING MEMBRANE SEAL OVER T-JOINTS IN 60 AND 80 MIL MEMBRANE APPLICATIONS. EVERGUARD T-JOINT PATCHES, BY GAF.
3. 1/8" THICK EXTRUDED AND EMBOSSED TPO ROLL 34" X 50', HEAT WELDS DIRECTLY TO ROOFING MEMBRANE. UNIQUE HERRINGBONE TRACTION SURFACE. AVAILABLE IN GRAY OR YELLOW, EVERGUARD® TPO WALKWAY ROLLS, GAF.

PART 3 EXECUTION
3.01 EXAMINATION
A. VERIFY THAT THE SURFACES AND SITE CONDITIONS ARE READY TO RECEIVE WORK.
B. VERIFY THAT THE DECK IS SUPPORTED AND SECURED.
C. VERIFY THAT THE DECK IS CLEAN AND SMOOTH, FREE OF DEPRESSIONS, WAVES, OR PROJECTIONS, AND PROPERLY SLOPED TO DRAINS, VALLEYS, EAVES, SCUPPERS OR GUTTERS.
D. VERIFY THAT THE DECK SURFACES ARE DRY AND FREE OF ICE OR SNOW.
E. VERIFY THAT ALL ROOF OPENINGS OR PENETRATIONS THROUGH THE ROOF ARE SOLIDLY SET, AND THAT ALL FLASHINGS ARE TAPERED.
3.02 SUBSTRATE PREPARATION
A. PLYWOOD DECK
1. PLYWOOD SHEATHING MUST BE EXTERIOR GRADE, MINIMUM 4 PLY, AND NOT LESS THAN 15/32" THICK.
2. PRESERVATIVES OR FIRE RETARDANTS USED TO TREAT THE DECKING MUST BE COMPATIBLE WITH ROOFING MATERIALS.
3. THE DECK MUST BE INSTALLED OVER JOISTS THAT ARE SPACED 24" (61 CM) O.C. OR LESS.
4. THE DECK MUST BE INSTALLED SO THAT ALL FOUR SIDES OF EACH PANEL BEAR ON AND ARE SECURED TO JOIST AND CROSS BLOCKING. "H" CLIPS ARE NOT ACCEPTABLE.
5. PANELS MUST BE INSTALLED WITH A 1/8" TO 1/4" (3MM - 6MM) GAP BETWEEN PANELS AND MUST MATCH VERTICALLY AT JOINTS TO WITHIN 1/8" (3MM).
6. DECKING SHOULD BE KEPT DRY AND ROOFED PROMPTLY AFTER INSTALLATION.
7. CODE STANDARDS APPLY WHEN THEIR REQUIREMENTS EXCEED THOSE LISTED HERE.
3.03 INSTALLATION - GENERAL
A. INSTALL GAF'S EVERGUARD® TPO ROOFING SYSTEM ACCORDING TO ALL CURRENT APPLICATION REQUIREMENTS IN ADDITION TO THOSE LISTED IN THIS SECTION.
B. GAF EVERGUARD® TPO SPECIFICATION #: TMANI60
C. START THE APPLICATION OF MEMBRANE PLIES AT THE LOW POINT OF THE ROOF OR AT THE DRAINS, SO THAT THE FLOW OF WATER IS OVER OR PARALLEL TO, BUT NEVER AGAINST THE LAPS.
3.04 INSULATION - GENERAL ***OMIT IF NOT SPECIFIED***
A. DO NOT APPLY ROOF INSULATION OR ROOFING UNTIL ALL OTHER WORK TRADES HAVE COMPLETED JOBS THAT REQUIRE THEM TO TRAVERSE THE DECK ON FOOT OR WITH EQUIPMENT. A VAPOR RETARDER COATED LIGHTLY WITH ASPHALT MAY BE APPLIED TO PROTECT THE INSIDE OF THE STRUCTURE PRIOR TO THE INSULATION AND FINAL ROOFING INSTALLATION. BEFORE THE APPLICATION OF THE INSULATION, ANY DAMAGE OR DETERIORATION TO THE VAPOR RETARDER MUST BE REPAIRED.
B. DO NOT INSTALL WET, DAMAGED OR WARPED INSULATION BOARDS.
C. INSTALL INSULATION BOARDS WITH STAGGERED BOARD JOINTS IN ONE DIRECTION (UNLESS TAPING JOINT).
D. INSTALL INSULATION BOARDS SNUG. GAPS BETWEEN BOARD JOINTS MUST NOT EXCEED ¼" (6 MM). ALL GAPS IN EXCESS OF ¼" (6 MM) MUST BE FILLED WITH LIKE INSULATION MATERIAL.
E. WOOD NAILERS MUST BE 3-1/2" (8.9 CM) MINIMUM WIDTH OR 1" (25 MM) WIDER THAN METAL FLANGE. THEY SHALL BE OF EQUAL THICKNESS AS THE INSULATION, AND BE TREATED FOR ROT RESISTANCE. ALL NAILERS MUST BE SECURELY FASTENED TO THE DECK.
F. DO NOT KICK INSULATION BOARDS INTO PLACE.
G. MITER AND FILL THE EDGES OF THE INSULATION BOARDS AT RIDGES, VALLEYS AND OTHER CHANGES IN PLANE TO PREVENT OPEN JOINTS OR IRREGULAR SURFACES. AVOID BREAKING OR CRUSHING OF THE INSULATION AT THE CORNERS.
H. INSULATION SHOULD NOT BE INSTALLED OVER NEW LIGHTWEIGHT INSULATING CONCRETE.
I. DO NOT INSTALL ANY MORE INSULATION THAN WILL BE COMPLETELY WATERPROOFED EACH DAY.
3.05 INSULATION - BASE LAYER
A. LOOSE APPLY THE BASE LAYER OF INSULATION FOR SUBSEQUENT LAYERS TO BE SIMULTANEOUSLY ATTACHED. MINIMAL FASTENING SHOULD BE PERFORMED TO AVOID MOVEMENT OF THE BOARDS.
3.06 INSULATION - SUBSEQUENT LAYERS
MECHANICALLY FASTENED
A. THE INSULATION MUST BE SECURELY ATTACHED TO THE ROOF DECK. A MINIMUM FMRC 1-60 ATTACHMENT IS RECOMMENDED. REFER TO FMRC APPROVAL GUIDE FOR FM FASTENING PATTERNS.
B. USE ONLY FASTENERS WITH A MINIMUM 3 INCH (7.6 CM) STRESS PLATE WHEN MECHANICALLY ATTACHING INSULATION. DO NOT ATTACH INSULATION WITH NAILS.
C. DO NOT INSTALL ANY MORE INSULATION THAN WILL BE COMPLETELY WATERPROOFED EACH DAY.
3.07 MEMBRANE APPLICATION
A. MECHANICALLY ATTACHED:
1. PLACE MEMBRANE SO THAT WRINKLES AND BUCKLES ARE NOT FORMED. ANY WRINKLES OR BUCKLES MUST BE REMOVED FROM THE SHEET PRIOR TO PERMANENT ATTACHMENT. ROOF MEMBRANE SHALL BE MECHANICALLY FASTENED IMMEDIATELY AFTER IT IS ROLLED OUT, FOLLOWED BY WELDING TO ADJACENT SHEETS.
2. OVERLAP ROOF MEMBRANE A MINIMUM OF 6" FOR SIDE LAPS AND 3" FOR END LAPS.
3. INSTALL MEMBRANE SO THAT THE SIDE LAPS RUN ACROSS THE ROOF SLOPE LAPPED TOWARDS DRAINAGE POINTS.
4. ALL EXPOSED SHEET CORNERS SHALL BE ROUNDED A MINIMUM OF 1".
5. USE FULL WIDTH ROLLS IN THE FIELD OF ROOF AND HALF WIDTH ROLLS IN THE PERIMETER AND CORNER REGION OF THE ROOF AND MECHANICALLY FASTENED IN THE SIDE LAP AREA TO THE ROOF DECK.
6. MEMBRANE LAPS SHALL BE HEAT-WELDED TOGETHER. ALL WELDS SHALL BE CONTINUOUS, WITHOUT VOIDS OR PARTIAL WELDS. WELDS SHALL BE FREE OF BURNS AND SCORCH MARKS.
7. WELD SHALL BE A MINIMUM OF 1-1/2" IN WIDTH FOR AUTOMATIC MACHINE WELDING AND A MINIMUM 2" IN WIDTH FOR HAND WELDING.
8. ALL CUT EDGES OF REINFORCED MEMBRANE MUST BE SEALED WITH EVERGUARD TPO CUT EDGE SEALANT.
9. THE MEMBRANE SHALL BE MECHANICALLY FASTENED IN THE SIDE LAP AREA TO THE ROOF DECK WITH APPROPRIATE DRILL-TEC FASTENERS AND PLATES AS REQUIRED BY ROOF SYSTEM SPECIFICATION AND/OR FACTORY MUTUAL CLASSIFICATION REQUIREMENTS.
10. THE METAL PLATES MUST BE PLACED WITHIN ¼" TO ½" OF THE MEMBRANE EDGE. PLATES SHALL NOT BE PLACED LESS THAN ¼" FROM THE MEMBRANE EDGE.
11. IN THE CORNER REGIONS, ADDITIONAL FASTENERS SHALL BE INSTALLED THROUGH THE PERIMETER MEMBRANE TO FORM A GRID PATTERN, WITH AN 8" (40.5 CM) WIDE EVERGUARD TPO REINFORCED MEMBRANE FLASHING-STRIP WELDED OVER THE ADDITIONAL FASTENERS. CORNERS INCLUDE BOTH OUTSIDE AND INSIDE CORNERS THAT MEASURE 75 - 105 ANGLE DEGREES.
12. MEMBRANE ATTACHMENT TO THE ROOF DECK IS REQUIRED AT LOCATIONS OF DECK ANGLE CHANGES IN EXCESS OF FIVE (5) ANGLE DEGREES (1" IN 12").
13. SUPPLEMENTAL MEMBRANE ATTACHMENT IS REQUIRED AT THE BASE OF ALL WALLS AND CURBS, AND WHERE THE ANGLE OF THE SUBSTRATE CHANGES BY MORE THAN TEN (10) DEGREES (1" IN 12"). ROOFING MEMBRANE SHALL BE SECURED TO THE STRUCTURAL DECK WITH SCREWS AND PLATES OF THE SAME TYPE AND SPACING USED FOR IN-LAP ATTACHMENT. THE SCREWS AND PLATES MUST BE INSTALLED NO LESS THAN ½" FROM THE MEMBRANE EDGE. ALTERNATIVELY, THE ROOFING MEMBRANE MAY BE TURNED UP THE VERTICAL PLANE A MINIMUM OF 3" AND SECURED WITH SCREWS AND TERMINATION BAR. FASTENER SPACING IS THE SAME AS IS USED FOR IN-LAP ATTACHMENT. THE TERMINATION BAR MUST BE INSTALLED WITHIN 1-1/2" TO 2" OF THE PLANE OF THE ROOF MEMBRANE, WITH A MINIMUM OF 1" OF MEMBRANE EXTENDING ABOVE THE TERMINATION BAR.
14. SUPPLEMENTAL MEMBRANE ATTACHMENT TO THE STRUCTURAL DECK IS REQUIRED AT ALL PENETRATIONS. ROOFING MEMBRANE SHALL BE SECURED TO THE DECK WITH APPROPRIATE DRILL-TEC SCREWS AND PLATES.
15. FASTENERS MUST BE INSTALLED TO ACHIEVE THE PROPER EMBEDMENT DEPTH. INSTALL FASTENERS WITHOUT LEAN OR TILT.
16. INSTALL FASTENERS SO THAT THE PLATE OR TERMINATION BAR IS DRAWN DOWN TIGHTLY TO THE MEMBRANE SURFACE. PROPERLY INSTALLED FASTENERS WILL NOT ALLOW THE PLATE OR TERMINATION BAR TO MOVE (UNDERDRIVING), BUT WILL NOT CAUSE WRINKLING OF THE MEMBRANE (OVERDRIVING).
3.08 FLASHINGS
A. GENERAL:
1. ALL PENETRATIONS MUST BE AT LEAST 24" (61 CM) FROM CURBS, WALLS, AND EDGES TO PROVIDE ADEQUATE SPACE FOR PROPER FLASHING.
2. FLASH ALL PERIMETER, CURB, AND PENETRATION CONDITIONS WITH COATED METAL, MEMBRANE FLASHING, AND FLASHING ACCESSORIES AS APPROPRIATE TO THE SITE CONDITION.
3. ALL COATED METAL AND MEMBRANE FLASHING CORNERS SHALL BE REINFORCED WITH PREFORMED CORNERS OR NON-REINFORCED MEMBRANE.
4. HOT-AIR WELD ALL FLASHING MEMBRANES, ACCESSORIES, AND COATED METAL. A MINIMUM 2" WIDE (HAND WELDER) WELD OR MINIMUM 1 - 1/2" AUTOMATIC MACHINE WELD IS REQUIRED.
5. ALL CUT EDGES OF REINFORCED MEMBRANE MUST BE SEALED WITH EVERGUARD TPO CUT EDGE SEALANT.
6. CONSULT THE EVERGUARD® *APPLICATION AND SPECIFICATIONS MANUAL* OR GAF CONTRACTOR SERVICES FOR MORE INFORMATION ON SPECIFIC CONSTRUCTION DETAILS, OR THOSE NOT ADDRESSED IN THIS SECTION.
B. COATED METAL FLASHINGS:
1. COATED METAL FLASHINGS SHALL BE FORMED IN ACCORDANCE WITH CURRENT EVERGUARD CONSTRUCTION DETAILS AND SMACNA GUIDELINES.
2. COATED METAL SECTIONS USED FOR ROOF EDGING, BASE FLASHING AND COPING SHALL BE BUTTED TOGETHER WITH A ¼" GAP TO ALLOW FOR EXPANSION AND CONTRACTION. HOT-AIR WELD A 6" WIDE REINFORCED MEMBRANE FLASHING STRIP TO BOTH SIDES OF THE JOINT, WITH APPROXIMATELY 1" ON EITHER SIDE OF THE JOINT LEFT UN-WELDED TO ALLOW FOR EXPANSION AND CONTRACTION. 2" WIDE ALUMINUM TAPE CAN BE INSTALLED OVER THE JOINT AS A BOND-BREAKER, TO PREVENT WELDING IN THIS AREA.
3. COATED METAL USED FOR SEALANT PANS, SCUPPER INSERTS, CORNERS OF ROOF EDGING, BASE FLASHING AND COPING SHALL BE OVERLAPPED OR PROVIDED WITH SEPARATE METAL PIECES TO CREATE A CONTINUOUS FLANGE CONDITION, AND POP-RIVETED SECURELY. HOT-AIR WELD A 6" WIDE REINFORCED MEMBRANE FLASHING STRIP OVER ALL SEAMS THAT WILL NOT BE SEALED DURING SUBSEQUENT FLASHING INSTALLATION.
4. PROVIDE A ½" HEM FOR ALL EXPOSED METAL EDGES TO PROVIDE CORROSION PROTECTION AND EDGE REINFORCEMENT FOR IMPROVED DURABILITY.
5. PROVIDE A ½" HEM FOR ALL METAL FLANGE EDGES WHENEVER POSSIBLE TO PREVENT WEARING OF THE ROOFING AND FLASHING MEMBRANES AT THE FLANGE EDGE.
6. COATED METAL FLASHINGS SHALL BE NAILED TO TREATED WOOD NAILERS OR OTHERWISE MECHANICALLY ATTACHED TO THE ROOF DECK, WALL OR CURB SUBSTRATES, IN ACCORDANCE WITH CONSTRUCTION DETAIL REQUIREMENTS.
C. REINFORCED MEMBRANE FLASHINGS:
1. THE THICKNESS OF THE FLASHING MEMBRANE SHALL BE THE SAME AS THE THICKNESS OF THE ROOFING MEMBRANE.
2. MEMBRANE FLASHING MAY EITHER BE INSTALLED LOOSE OR FULLY ADHERED TO THE SUBSTRATE SURFACE IN ACCORDANCE WITH "CONSTRUCTION DETAIL REQUIREMENTS".
3. WHERE FLASHINGS ARE TO BE FULLY ADHERED, APPLY BONDING ADHESIVE AT A RATE RESULTING IN 60 SQUARE FEET/GALLON OF FINISHED ROOFING MATERIAL FOR SOLVENT-BASED BONDING ADHESIVES, AND AT A RATE OF 125 SQUARE FEET/GALLON OF FINISHED ROOFING MATERIAL FOR WATER-BORNE BONDING ADHESIVE. APPLY BONDING ADHESIVE TO BOTH THE UNDERSIDE OF THE MEMBRANE AND THE SUBSTRATE SURFACE AT 120 SQUARE FEET PER GALLON (SOLVENT BASED) AND 250 SQUARE FEET PER GALLON (WATER BASED). A GREATER QUANTITY OF BONDING ADHESIVE MAY BE REQUIRED BASED UPON THE SUBSTRATE SURFACE CONDITION. THE BONDING ADHESIVE MUST BE ALLOWED TO DRY UNTIL TACKY TO THE TOUCH BEFORE FLASHING MEMBRANE APPLICATION.
4. APPLY THE ADHESIVE ONLY WHEN OUTSIDE TEMPERATURE IS ABOVE 40°F. RECOMMENDED MINIMUM APPLICATION TEMPERATURE IS 50°F TO ALLOW FOR EASIER ADHESIVE APPLICATION.
5. THE MEMBRANE FLASHING SHALL BE CAREFULLY POSITIONED PRIOR TO APPLICATION TO AVOID WRINKLES AND BUCKLES.
D. UN-REINFORCED MEMBRANE FLASHINGS:
1. UN-REINFORCED MEMBRANE IS USED TO FIELD-FABRICATE PENETRATION OR REINFORCEMENT FLASHINGS IN LOCATIONS WHERE PREFORMED CORNERS AND PIPE BOOTS CANNOT BE PROPERLY INSTALLED.
2. PENETRATION FLASHINGS CONSTRUCTED OF UN-REINFORCED MEMBRANE ARE TYPICALLY INSTALLED IN TWO SECTIONS, A HORIZONTAL PIECE THAT EXTENDS ONTO THE ROOFING MEMBRANE AND A VERTICAL PIECE THAT EXTENDS UP THE PENETRATION. THE TWO PIECES ARE OVERLAPPED AND HOT-AIR WELDED TOGETHER.
3. THE UN-REINFORCED MEMBRANE FLASHING SHALL BE ADHERED TO THE PENETRATION SURFACE. APPLY BONDING ADHESIVE AT A RATE RESULTING IN 60 SQUARE FEET/GALLON OF FINISHED ROOFING MATERIAL FOR SOLVENT-BASED BONDING ADHESIVES, AND AT A RATE OF 125 SQUARE FEET/GALLON OF FINISHED ROOFING MATERIAL FOR WATER-BORNE BONDING ADHESIVE. APPLY BONDING ADHESIVE TO BOTH THE UNDERSIDE OF THE MEMBRANE AND THE SUBSTRATE SURFACE AT 120 SQUARE FEET PER GALLON (SOLVENT BASED) AND 250 SQUARE FEET PER GALLON (WATER BASED). A GREATER QUANTITY OF BONDING ADHESIVE MAY BE REQUIRED BASED UPON THE SUBSTRATE SURFACE CONDITION. THE BONDING ADHESIVE MUST BE ALLOWED TO DRY UNTIL TACKY TO THE TOUCH BEFORE FLASHING MEMBRANE APPLICATION.
E. ROOF EDGES:
1. ROOF EDGE FLASHINGS ARE APPLICABLE FOR GRAVEL STOP AND DRIP EDGE CONDITIONS AS WELL AS FOR EXTERIOR EDGES OF PARAPET WALLS.
2. FLASH ROOF EDGES WITH METAL FLANGES NAILED 4" O.C. TO PRESSURE-TREATED WOOD NAILERS. WHERE REQUIRED, HOT-AIR WELD ROOF MEMBRANE TO COATED METAL FLANGES.
3. WHEN THE FASCIA WIDTH EXCEEDS 4", COATED METAL ROOF EDGING MUST BE ATTACHED WITH A CONTINUOUS CLEAT TO SECURE THE LOWER FASCIA EDGE. THE CLEAT MUST BE SECURED TO THE BUILDING NO LESS THAN 12" O.C.
4. ALTERNATIVELY, ROOF EDGES MAY BE FLASHED WITH A 2-PIECE SNAP ON FASCIA SYSTEM, ADHERING THE ROOF MEMBRANE TO A METAL CANT AND FACE NAILING THE MEMBRANE 8" ON CENTER PRIOR TO INSTALLING A SNAP-ON FASCIA.
5. FLASH ROOF EDGE SCUPPERS WITH A COATED METAL INSERT THAT IS MECHANICALLY ATTACHED TO THE ROOF EDGE AND INTEGRATED AS A PART OF THE METAL EDGING.
3.10 ROOF PROTECTION
A. PROTECT ALL PARTIALLY AND FULLY COMPLETED ROOFING WORK FROM OTHER TRADES UNTIL COMPLETION.
B. WHENEVER POSSIBLE, STAGE MATERIALS IN SUCH A MANNER THAT FOOT TRAFFIC IS MINIMIZED OVER COMPLETED ROOF AREAS.
C. WHEN IT IS NOT POSSIBLE TO STAGE MATERIALS AWAY FROM LOCATIONS WHERE PARTIAL OR COMPLETE INSTALLATION HAS TAKEN PLACE, TEMPORARY WALKWAYS AND PLATFORMS SHALL BE INSTALLED IN ORDER TO PROTECT ALL COMPLETED ROOF AREAS FROM TRAFFIC AND POINT LOADING DURING THE APPLICATION PROCESS.
D. TEMPORARY TIE-INS SHALL BE INSTALLED AT THE END OF EACH WORKDAY AND REMOVED PRIOR TO COMMENCEMENT OF WORK THE FOLLOWING DAY.
3.11 CLEAN-UP
A. ALL WORK AREAS ARE TO BE KEPT CLEAN, CLEAR AND FREE OF DEBRIS AT ALL TIMES.
B. DO NOT ALLOW TRASH, WASTE, OR DEBRIS TO COLLECT ON THE ROOF. THESE ITEMS SHALL BE REMOVED FROM THE ROOF ON A DAILY BASIS.
C. ALL TOOLS AND UNUSED MATERIALS MUST BE COLLECTED AT THE END OF EACH WORKDAY AND STORED PROPERLY OFF OF THE FINISHED ROOF SURFACE AND PROTECTED FROM EXPOSURE TO THE ELEMENTS.
D. DISPOSE OF OR RECYCLE ALL TRASH AND EXCESS MATERIAL IN A MANNER CONFORMING TO CURRENT EPA REGULATIONS AND LOCAL LAWS.
E. PROPERLY CLEAN THE FINISHED ROOF SURFACE AFTER COMPLETION, AND MAKE SURE THE DRAINS AND GUTTERS ARE NOT CLOGGED.
F. CLEAN AND RESTORE ALL DAMAGED SURFACES TO THEIR ORIGINAL CONDITION.

END OF SECTION

PART 8.0 - DOORS AND WINDOWS
NOT USED

PART 9.0 - FINISHES
NOT USED

PART 10.00- SPECIALTIES
NOT USED.

ARKO ARCHITECTURE, LLC
2490 CORAL WAY. SUITE 301
MIAMI, FL 33145
edgardo@thearkogroup.com
eduardo@thearkogroup.com
www.thearkogroup.com
p: 305.400.8133

ADDITION & RESTORATION FOR:
MAZZINI & MELINE RESIDENCE
10300 SW 70TH AVE, MIAMI, FL 33156

Digitally signed by Edgardo J Betancourt Santiago
Date: 2023.08.24 16:08:40-04'00'

STATE OF FLORIDA
EDGARDO J BETANCOURT SANTIAGO
AR99726
REGISTERED ARCHITECT

DATE	DRAWN BY MV	PROJECT
03.29.23	CHECKED BY EV	22-84

REVISIONS

GENERAL NOTES

CONSTRUCTION DOCUMENTS

G-1.01

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

DEPARTMENT OF REGULATORY AND ECONOMIC RESOURCES

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7/11/2024 6:23:24 PM

Tracking #	Process #	Permit #
2024008996	M2024008996	2024059277

THIS COPY OF PLANS MUST BE AVAILABLE ON BUILDING SITE OR AN INSPECTION WILL NOT BE MADE.

Process #	Review	Disposition	Reviewer	Date
M2024008996	DERM CORE	A	GUILLARTE, YAILYN	2/21/2024
M2024008996	IMPACT FEES	A	INTERNET IMPACT FEES (IFS)	7/11/2024
M2024008996	WASA	A	ROCA, ROBERTO	4/2/2024
M2024008996	DEPT OF HEALTH	A	TOLEDO, GABRIEL	7/3/2024
M2024008996	DERM PAVING & DRAINAGE	A	WHITTAKER, KAHEILL	3/20/2024
M2024008996	DERM ONSITE SEWAGE TREATMENT & DISPOSAL SYSTEMS	N	OLMINO, BETSY	2/28/2024
M2024008996	UPFRONT FEES	A	WEB APPLICATION ID	2/16/2024

Disclaimer.

Subject to compliance with all Federal, State, and County Laws, rules and regulations. Miami-Dade County assumes no responsibility for accuracy of or results of these plans.

NOTICE: In addition to the requirements of this permit, there may be additional restrictions applicable to the property that may be found in the public records of this county, and there may be additional permits required from other governmental entities such as water management districts, state agencies or federal agencies.

Stamp Name	Trade	Disposition	Stamp Description
Approved	DERM	A	Approved
Approved	HRS	A	Approved
Void	HRS	V	Void

THE ARCHITECT HEREBY EXPRESSLY RESERVES THE COPYRIGHT AND PROPERTY RIGHTS IN THESE PLANS. DRAWINGS ARE NOT TO BE REPRODUCED, CHANGED, OR COPIED IN ANY FORM OR MANNER WHATSOEVER WITHOUT FIRST OBTAINING WRITTEN PERMISSION AND CONSENT. NOR ARE THEY TO BE ASSIGNED TO ANY PARTY WITHOUT FIRST OBTAINING SAID WRITTEN PERMISSION AND CONSENT.

SYSTEMS NOTE:

1. TEMPERATURE CONTROLS:
   A. FOR EXISTING EQUIPMENT: SHALL BE SERVICED AND RELOCATED AS SHOWN. IF NEW THERMOSTAT IS PROVIDED IT SHALL MATCH BUILDING STANDARDS.
   B. NEW UNITS: THERMOSTAT SHALL BE COMBINATION COOLING/HEATING, WITH SYSTEM "COOL–AUTO– HEAT–OFF" AND FAN "ON–AUTO" SELECTOR SWITCHES. PROVIDE PROGRAMMABLE TYPE AS RECOMMENDED BY MANUFACTURER, HONEYWELL OR EQUAL.
   C. POWER PROVISIONS: SHALL BE FURNISHED AND INSTALLED BY ELEC. CONTRACTOR UNLESS OTHERWISE NOTED, CONTROL WIRING BY MECH/CONTROL CONTRACTOR.
      a. 24V TRANSFORMER SHALL BE PROVIDED BY MANUFACTURER FOR ALL UNITS/EQUIPMENT THAT REQUIRE CONTROL POWER FOR UNITARY CONTROLLERS, IF NOT OTHERWISE NOTED.
      b. 120V POWER AS REQUIRED BY SYSTEM CONTROLLERS SHALL BE PROVIDED/COORDINATED BY ELEC. CONTRACTOR WITH MECH. AND CONTROLS CONTRACTORS.
2. THERMOSTAT LOCATION SHALL BE APPROVED BY OWNER AND ENGINEER BEFORE INSTALLATION. INSTALL THERMOSTAT PER A.D.A REQUIREMENTS WHERE APPLICABLE; MAX. 48" HIGH FOR FORWARD REACH, MAX. 48" HIGH FOR SIDE REACH. MECHANICAL CONTRACTOR SHALL COORDINATE WITH ELECTRICAL CONTRACTOR ALL REQUIREMENTS FOR JUNCTION BOXES, CONDUITS, CONTROL WIRING, POWER, ETC. AND DEFINE RESPONSIBILITIES AND SCOPE OF WORK FOR EACH TRADE PRIOR TO PURCHASING/INSTALLATION.

   SPECIAL NOTE:
   WHENEVER THERE ARE MORE THAN ONE SENSOR OR THERMOSTAT, SIDE BY SIDE, THEY SHALL BE GANGED TOGETHER WITHIN THE SAME COVER PLATE WHEREVER POSSIBLE. CONTRACTOR SHALL COORDINATE THIS ISSUE WITH ARCHITECT/OWNER PRIOR TO INSTALLATION AND SHALL BRING ANY DISCREPANCY TO THE ENGINEER'S ATTENTION.
3. REFRIGERANT LINES SHALL BE COPPER, TYPE "L" HARD DRAWN WITH WROUGHT COPPER BRAZING–JOINT TYPE FITTINGS, USE BRAZING MATERIALS FOR HIGH PRESSURE PIPING PER AWS A5.8: BCuP SERIES COPPER–PHOSPHORUS ALLOY OR BAg1 SILVER ALLOY. REFRIGERANT LINES SHALL BE SIZED PER MANUFACTURER'S RECOMMENDATIONS. SOFT COPPER TYPE "M" SHALL BE ALLOWED FOR RISER PIPING INSIDE CHASE TO LIMIT NUMBER OF JOINTS. COORDINATE WITH ENGINEER FOR PRIOR APPROVAL. ALL EXPOSED INSULATION SHALL BE PROTECTED WITH A PROTECTIVE, PUNCTURE AND TEAR RESISTANT JACKETING SYSTEM EQUAL TO "VENTURE CLAD" AND COMPLY WITH FMC 2020, SEC.1101.3 PROTECTION.
   PIPING INSULATION EXPOSED TO THE WEATHER SHALL BE PROTECTED FROM DAMAGE, INCLUDING THAT DUE TO SUNLIGHT, MOISTURE, EQUIPMENT MAINTENANCE AND WIND, AND SHALL PROVIDE SHIELDING FROM SOLAR RADIATION THAT CAN CAUSE DEGRADATION OF THE MATERIAL (ADHESIVE TAPE SHALL NOT BE PERMITTED) COMPLIANT WITH FEC 2020, SEC. C403.2.10.
4. "ARMAFLEX" OR EQUAL INSULATION SHALL BE USED FOR SUCTION REFRIGERANT LINES WITH THICKNESS PER FLORIDA ENERGY CODE TABLE C403.2.10. FILTER/DRYER AND SIGHT GLASS SHALL BE PROVIDED AT LIQUID LINES.
5. PROVIDE NEW FILTERS FOR ALL AIR CONDITIONING EQUIPMENT BEFORE START–UP, REPLACE PRIOR TO FINAL ACCEPTANCE BY OWNER.
6. HVAC CONTRACTOR SHALL PROVIDE VENTILATION CONTROLS COMPLIANT WITH FMC 2020, SEC. 403 AND 405. FOR ALL SYSTEMS AND SHALL VERIFY EXISTING CONDITIONS FOR COMPLIANCE, AS REQUIRED, FOR A FULLY OPERATIONAL SYSTEM.
7. MECHANICAL EQUIPMENT ON ROOF OR ELEVATED STRUCTURES SHALL COMPLY WITH FMC 2020 PAR. 306.5 IF INSTALLED HIGHER THAN 16 FEET A.F.F. MECHANICAL EQUIPMENT INSTALLED IN ATTICS SHALL MEET THE REQUIREMENTS OF FMC 2020 PAR. 306.3 IF THE EQUIPMENT CAN NOT BE SERVICED/REMOVED THROUGH REQUIRED OPENING. MECHANICAL EQUIPMENT SHALL BE PROTECTED WITH MECHANICAL BARRIERS IF EXPOSED TO MECH. DAMAGE. ALL EQUIPMENT SHALL BE INSTALLED ON CONCRETE PADS AT GRADE LEVEL, SIZED PER STRUCTURAL PLANS.

   SPECIAL NOTE:
   ALL WIND LOAD AND OTHER COMPLIANCE CALCULATIONS AND/OR INSTALLATION DETAILS FOR OUTDOOR MOUNTED MECHANICAL EQUIPMENT AS REQUIRED BY FBC 2020, SEC. 1522 AND CHAPTER 16, SHALL BE PROVIDED BY A STRUCTURAL ENGINEER AND ARE SHOWN ON THESE PLANS FOR REFERENCE ONLY. SUCH CALCULATIONS SHALL BE PROVIDED BY THE EQUIPMENT MANUFACTURER OR BY THE GENERAL OR MECHANICAL CONTRACTOR ON BEHALF OF CLIENT.
   CONTRACTOR TO PROVIDE WIND LOAD CALCULATIONS SIGNED AND SEALED BY A FLORIDA REGISTERED STRUCTURAL ENGINEER IN ORIGINAL FOR COMPLIANCE WITH SEC. 301.15 OF FMC 2020, INCLUDING ANY DOCUMENTATION REQUIRED BY LOCAL JURISDICTION FOR PERMIT PURPOSES.
8. PROVIDE A MIN. OF 36" CLEARANCE IN FRONT OF ALL 120–208/240 VOLT PANELS AND MIN. 42" CLEARANCE IN FRONT OF ANY 277–480 VOLT PANEL. PROVIDE ADEQUATE SIDE CLEARANCE PER NEC 110.26.
9. MECHANICAL PLANS IN GENERAL, ARE DIAGRAMMATIC IN NATURE, AND ARE TO BE READ IN CONJUNCTION WITH ARCHITECTURAL, PLUMBING, ELECTRICAL, FIRE SPRINKLER, AND STRUCTURAL PLANS AND SHALL BE CONSIDERED AS ONE SET OF DOCUMENTS. DUCT AND PIPING OFFSETS, BENDS AND TRANSITIONS SHALL BE REQUIRED TO PROVIDE AND INSTALL A COMPLETE FUNCTIONAL SYSTEM AND SHALL BE PROVIDED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER. CHANGES IN DUCTWORK SIZE AND ROUTE WILL BE REQUIRED TO AVOID STRUCTURAL, PLUMBING, FIRE SPRINKLER AND ARCHITECTURAL BUILDING FEATURES. DUCTWORK CHANGES MAY BE MADE BY CONTRACTOR USING EQUIVALENT SIZED DUCT. CONTACT ENGINEER IF DUCT AREA WILL NOT FIT.
10. CONDENSATE DRAIN PIPING TO BE AS SPECIFIED PER PLUMBING PLANS. IF NOT SPECIFIED THEY SHALL BE TYPE "L" COPPER OR PVC WHERE ALLOWED BY CODE WITH INSULATION THICKNESS PER FEC 2020 TABLE C403.2.9.1. PROVIDE APPROVED WATER LEVEL DETECTOR OR FLOAT SWITCH TO AUTOMATICALLY SHUT DOWN THE AIR COND. UNIT, AS A SECONDARY DRAIN SYSTEM TO COMPLY WITH FMC 2020, SEC. 307 SUPPLY CONDENSATE PUMP WHERE NECESSARY AS IMPOSED BY FIELD CONDITIONS OR INSTALLATION CHANGES AND PIPE TO CONDENSATE DRAIN PER PLUMBING PLANS.
11. CLEARANCE FOR MAINTENANCE, SERVICE, REPAIRS, AND REPLACEMENT FOR ALL MECHANICAL EQUIPMENT SHALL BE PROVIDED TO COMPLY WITH FMC 2020, SEC. 306. SERVICE ACCESS PANELS FOR MECH. EQUIPMENT IN CONCEALED SPACES SHALL BE PROVIDED TO COMPLY WITH THE REQUIREMENTS OF SEC. 306.
12. CORROSION COATING: CONTRACTOR SHALL PROVIDE CORROSION COATING TO CONDENSER/EVAPORATOR COILS, EQUIPMENT CASINGS/CABINETS AND ALL EXPOSED COPPER PIPING/ COMPRESSORS/ CONDENSER SECTION, AS WELL AS, ANY EXPOSED METAL WITHIN AIRSTREAM BY 3RD PARTY AS APPLIED BY BLYGOLD, LUVATA, ADVANCOAT OR APPROVED EQUAL WITH STANDARD 5–YEAR WARRANTY.
13. MATERIALS ALLOWED IN RETURN AIR PLENUMS OR ABOVE CEILINGS USED AS RETURN AIR PLENUM SHALL COMPLY WITH FMC 2020, SEC. 602.2.1. IF SPACE WITH RETURN AIR PLENUM HAS ANY DECK TO DECK PARTITIONS, AIR TRANSFER DUCTS MUST BE INSTALLED. WHEN CPVC PIPING IS USED FOR FIRE SPRINKLER SYSTEMS, THE R/A GRILLES LAYOUT SHALL BE (FIELD) COORDINATED WITH SUCH PIPING SO THAT NO PORTION OF THE GRILLES WILL BE DIRECTLY BELOW THE CPVC PIPING. STUD CAVITIES AND JOIST SPACE PLENUMS SHALL COMPLY WITH FMC 2020, SEC. 602.3.

CONTRACTOR NOTE:

1. THE CONTRACTOR SHALL FURNISH ALL LABOR, MATERIALS, AND EQUIPMENT NECESSARY FOR THE INSTALLATION OF A COMPLETE SYSTEM IN ACCORDANCE WITH THESE DRAWINGS, THE FLORIDA BUILDING CODE 2020 AND ALL OTHER APPLICABLE STATE, COUNTY AND LOCAL ORDINANCES AND THE LISTED EDITION OF THE FOLLOWING PUBLICATIONS; SMACNA/ANSI–2016, SMACNA–10, 85; ASHRAE 15–2019; 34–2019 62.1–2016; NFPA 70–2017, 72–16, 90A–15, 91–15, 96–17, 101–2018; NEBB–2005; NAIMA–2009; NFRC 100–2017, 200–2017, 400–2017; ANSI Z10.0–2019, Z21.8–2017, Z21.83–98.
2. THE CONTRACTOR SHALL PAY ALL COSTS OF PERMIT, INSPECTIONS AND ALL OTHER COSTS INCIDENTAL TO THE COMPLETION AND TESTING OF THIS WORK.
3. THE CONTRACTOR SHALL VISIT THE SITE AND COORDINATE WORK WITH OTHER TRADES.
4. THE CONTRACTOR SHALL SUPPLY THE ARCHITECT/ENGINEER WITH "AS–BUILT" DRAWINGS.
5. CONTRACTOR SHALL SUBMIT, FOR APPROVAL FIVE [5] COPIES OF A COMPLETE SET OF SHOP DWGS (INCLUDING DUCTWORK), MANUFACTURER'S SUBMITTALS FOR EACH PIECE OF EQUIPMENT AND CONTROLS INCLUDED IN CONTRACT.
6. ALL MATERIAL SHALL BE NEW OF U.S. MANUFACTURER OF GOOD QUALITY.
   ALL WORK SHALL BE PERFORMED AT INDUSTRY STANDARD QUALITY LEVEL BY CERTIFIED PROFESSIONALS.
   ALL EQUIPMENT SHALL BE UL OR ETL LISTED.
   ALL INSTALLATIONS SHALL COMPLY WITH FMC 2020, CH. 3, GENERAL REGULATIONS.

   FOR BUILDINGS LOCATED WITHIN 3,000 FT FROM THE OCEAN, CONTRACTOR SHALL UTILIZE NON–FERROUS MATERIALS OR PROVIDE CORROSION COATING FOR ALL OUTDOOR EXPOSED METAL/STEEL EQUIPMENT, SUPPORTS, STANDS, FASTENERS, ETC. BY 3RD PARTY AS APPLIED BY BLYGOLD, LUVATA, ADVANCOAT (ENSEAL CR) OR APPROVED EQUAL WITH STANDARD 5–YEAR WARRANTY.
7. HVAC CONTRACTOR SHALL PROVIDE A T & B REPORT PER FEC 2020, SEC. C 408.2.2. FOR SYSTEMS OVER 15 TONS, THE T & B SHALL BE PERFORMED BY A CERTIFIED, INDEPENDENT COMPANY FOR ALL MECHANICAL EQUIPMENT, AIR DEVICES, DAMPERS, AND ANY AIR MOVING SYSTEMS. THE TEST AND BALANCE REPORT SHALL BE IN ACCORDANCE WITH THE AABC OR NEBB STANDARDS AND PROCEDURES AND SHALL INCLUDE AIR QUANTITIES FOR ALL SUPPLY GRILLES, RETURN GRILLES AND EXHAUST GRILLES AND THE LEAVING AND ENTERING AIR TEMPERATURE (F) FROM SUPPLY GRILLES, EVAPORATORS, ENERGY RECOVERY UNITS AND ANY TYPE OF HEAT EXCHANGERS.

   EXCEPTIONS:
   1. BUILDINGS WITH COOLING OR HEATING SYSTEM CAPACITIES OF 15 TONS OR LESS PER SYSTEM MAY BE TESTED AND BALANCED BY A MECHANICAL CONTRACTOR LICENSED TO DESIGN AND INSTALL SUCH SYSTEM(S).
   2. BUILDINGS WITH COOLING OR HEATING SYSTEM CAPACITIES OF 65,000 BTU/H OR LESS PER SYSTEM ARE EXEMPT FROM THE REQUIREMENTS OF THIS SECTION.

   BUILDING ENVELOPE SHALL BE POSITIVELY PRESSURIZED TO PREVENT INFILTRATION PER FEC 2020, SEC. C 408.2.2.1.
8. THE CONTRACTOR SHALL VERIFY EXISTING CONDITIONS PRIOR TO BIDDING, ORDERING, FABRICATION OR INSTALLATION OF MATERIALS OR EQUIPMENT, IN ORDER TO PROVIDE A FULLY INTEGRATED MECHANICAL AND CONTROLS SYSTEMS WITH THE EXISTING ONES. ANY DISCREPANCY BETWEEN EXISTING CONDITIONS AND PLANS, OR ADDITIONAL CLARIFICATION REQ'D SHALL BE BROUGHT TO THE ATTENTION OF ENGINEER PRIOR TO FINAL BIDDING AND WORK.
9. MANUFACTURER'S WARRANTY: CONTRACTOR SHALL PROVIDE WARRANTY FOR A PERIOD OF (1) ONE YEAR AFTER BUILDING C.O. FOR ALL MECHANICAL SYSTEMS, DUCTWORK, CONTROLS ACCESSORIES AND ALL OTHER EQUIPMENT, PARTS AND LABOR UNDER THESE DRAWINGS AND AND SPECIFICATIONS. CONTRACTOR SHALL PROVIDE WARRANTY FOR COMPRESSORS FOR (5) FIVE YEARS. ANY REPAIRS REQUIRING SYSTEM SHUTDOWN WILL BE DONE DURING NON–OPERATIONAL PERIODS OR AS AGREED WITH OWNER.
10. IF REMODELLING AN EXISTING SPACE, THE CONTRACTOR SHALL VISIT THE SITE PRIOR TO BID. CONTRACTOR SHALL INSPECT ALL EXISTING AND NEW COMPONENTS OF THE MECHANICAL SYSTEMS AND ENSURE THAT ALL ARE OPERATIONAL AND WORKING AS SHOWN ON THE APPROVED CD PLANS AT THE TIME OF C.O.

DUCTWORK NOTE:

1. DUCTWORK:
   DUCTWORK CONSTRUCTION, INSTALLATION AND MINIMUM INSULATION R–VALUES SHALL COMPLY WITH FEC 2020, SEC. C403.2.9 AND TABLE C403.2.9.1, S.M.A.C.N.A. MANUAL FOR MEANS AND METHODS AND MANUFACTURER'S INSTRUCTIONS.
   DUCT SIZING IS COMPLIANT WITH FMC SEC. 603.2 BASED ON ASHRAE "EQUAL FRICTION" METHOD, UNLESS SPECIFICALLY NOTED OTHERWISE ON PLANS.

   A. ALL AIR CONDITIONING DUCTWORK INSTALLED IN VENTILATED ATTIC SHALL BE GALVANIZED, DOUBLE WALL SHEETMETAL EQUAL TO UNITED McGILL "K–27", WITH MIN. R–8 INSULATION AND SEALED SEAMS AND JOINTS. THE CONTRACTOR SHALL PROVIDE ALL SHEETMETAL DUCTWORK, HANGERS, AUX. SUPPORT STEEL, ETC. PROVIDE SOLID LINER AND COAT WITH TWO COATS OF CORROSION–RESISTANT PAINT OR EQUIVALENT. PROVIDE OPTIONAL (OWNER'S DECISION) ALUMINUM OR STAINLESS STEEL CONSTRUCTION. (1)

   SPECIAL NOTE:
   SMACNA DUCT PRESSURE CLASSES BASED ON OPERATING PRESSURE ARE: 1/2", 1", 2", 3", 4", 6", AND 10". EACH DUCT SYSTEM SHALL BE CONSTRUCTED FOR THE SPECIFIC DUCT PRESSURE CLASS SHOWN ON PLANS. WHERE NO PRESSURE CLASS IS SPECIFIED FOR CONSTANT VOLUME SYSTEMS, 1" W.G. PRESSURE CLASS IS THE BASIS OF COMPLIANCE WITH THE SMACNA STANDARDS REGARDLESS OF VELOCITY. WHERE NO PRESSURE CLASS IS SPECIFIED FOR VARIABLE VOLUME SYSTEMS, 2" W.G. PRESSURE CLASS IS THE BASIS OF COMPLIANCE WITH THE SMACNA STANDARDS FOR DUCTWORK UPSTREAM OF VAV BOXES. ALL DUCTWORK SHALL BE SEALED TO SMACNA "HVAC DUCT CONSTRUCTION STANDARDS" FOR ITS PRESSURE CLASS SEALING METHODS.

   NONMETALLIC DUCTS SHALL BE CONSTRUCTED WITH CLASS 0 OR CLASS 1 DUCT MATERIAL AND SHALL COMPLY WITH UL 181. THE AIR TEMPERATURE WITHIN NONMETALLIC DUCTS SHALL NOT EXCEED 250°F (121°C) PER FMC 2020 SEC 603.5.
2. ALL EXHAUST DUCTS AND OUTSIDE AIR DUCTS SHALL BE GALVANIZED SHEET METAL WITH SEALED SEAMS AND JOINTS. ALL OUTSIDE AIR DUCT SHALL BE INSULATED WITH EXTERNAL BLANKET INSULATION R–6 MIN. ALL METAL EXHAUST, MAKE–UP OR OTHERWISE DUCTS INSTALLED IN LOCATIONS WHERE DEWPOINT CONDITIONS CAN OCCUR INSIDE THE DUCT SHALL BE EXTERNALLY INSULATED WITH R–6 MIN. AIR INTAKE AND EXHAUST OPENINGS SHALL BE SCREENED WITH A CORROSION RESISTANT MATERIAL PER FMC 2020, TABLE 401.5. AND 501.3.2. LOUVERS THAT PROTECT EXHAUST OPENINGS IN STRUCTURES LOCATED IN HURRICANE–PRONE REGIONS, AS DEFINED IN THE FLORIDA BUILDING CODE (BUILDING) SHALL COMPLY WITH AMCA STANDARD 550. OUTDOOR OPENINGS LOCATED IN EXTERIOR WALLS SHALL MEET THE PROVISIONS FOR EXTERIOR WALL OPENING PROTECTIVES IN ACCORDANCE WITH THE FLORIDA BUILDING CODE (BUILDING).
3. O/A INTAKES SHALL NOT BE TAKEN FROM A LOCATION CLOSER THAN 10 FT FROM ANY CHIMNEY, VENT OUTLET OR SANITARY SEWER VENT OUTLET PER FMC 2020, SEC. 401.4. OUTSIDE AIR INTAKE VENTS LOCATED ON ROOFS WILL BE PROPERLY MARKED WITH A UNIVERSAL MARKING "INTAKE", PERMANENTLY ATTACHED.
4. DUCT SIZES SHOWN ON PLANS ARE INSIDE DIMENSIONS.
5. ALL AIR DEVICES (DIFFUSERS, REGISTERS AND GRILLES) SHALL BE ALL ALUMINUM CONSTRUCTION WITH EXPOSED SURFACE OFF WHITE BAKED ENAMEL FINISH OR AS SPECIFIED BY ARCHITECT. DEVICES SHALL BE AS SPECIFIED OR EQUAL TO TITUS, PRICE OR METALAIRE. PROVIDE OPPOSED BLADE DAMPERS AT ALL DIFFUSERS AND REGISTERS AS INDICATED ON PLANS. PROVIDE BALANCING DAMPERS FOR ALL SUPPLY AND RETURN DIFFUSERS AND REGISTERS AND TO ENSURE COMPLIANCE WITH FMC 2020 SEC. 601.5 FOR BALANCED RETURN/TRANSFER AIR FLOW.

   ALL BRANCH TAKE–OFFS TO BE PROVIDED W/ MANUAL VOLUME DAMPERS. PROVIDE RADIUS ELBOWS WHERE FEASIBLE, SQUARE ELBOWS AND TEE'S SHALL BE FURNISHED W/SINGLE FOIL TURNING VANES. PROVIDE MANUAL VOLUME DAMPERS WITH EXTRACTOR AT ALL FLEX TAKE–OFFS.
   PROVIDE REMOTE, CABLE OPERATED VOLUME DAMPERS IN INACCESIBLE AND HARD CEILING AREAS, "YOUNG REGULATOR" OR EQUAL.
6. ALL DUCT INSULATION SHALL HAVE A FLAME SPREAD INDEX NOT MORE THAN 25 AND A SMOKE DEVELOPED INDEX NOT MORE THAN 50, WHEN TESTED IN ACCORDANCE WITH ASTM E 84 OR UL 723.
7.

LEGEND

- NEW S/A CEILING DIFFUSER
- NEW R/A CEILING GRILLE
- EXISTING S/A CEILING DIFFUSER
- EXISTING R/A CEILING GRILLE
- VOLUME CONTROL DAMPER
- REDUCER OR INCREASER
- NEW FLEX DUCT
- NEW DUCTWORK
- BELLMOUTH TAP
- CEILING EXHAUST FAN
- SUPPLY AIR DIFFUSER OR GRILLE DESIGNATION
- RETURN/EXHAUST AIR DIFFUSER OR GRILLE DESIGNATION
- EQUIPMENT TAG (EXP - X)
- THERMOSTAT
- SUPPLY AIR
- RETURN AIR
- D/U/C DOOR UNDER CUT

HVAC ABBREVIATION LEGEND

AFF	ABOVE FINISH FLOOR
AHU	AIR HANDLING UNIT
CU	CONDENSING UNIT
EAG	EXHAUST AIR GRILLE
EF	EXHAUST FAN
EXH	EXHAUST
E/A	EXHAUST AIR
S/A	SUPPLY AIR
N	NEW
E	EXISTING
GR	GRILLE
R/A	RETURN AIR
RAG	RETURN AIR GRILLE
O/A	OUTSIDE AIR
M/A	MAKE–UP AIR
WMS	WIRE MESH SCREEN
CG	CEILING
BDD	BACK DRAFT DAMPER
RE	RELOCATED

SHEET INDEX

SHEET#	
M1	MECHANICAL NOTES, LEGEND, INDEX & PLAN
M2	MECHANICAL PLAN
M3	MECHANICAL SCHEDULES & DETAILS

EXHAUST AIR CALCULATIONS

SPACE SERVED OR UNIT TAG	SPACE AREA (SQ.FT.)	SPACE HEIGHT (FT)	SPACE VOLUME (CU.FT.)	VENTILATION REQ'D AC/HR OR CFM	TOTAL CFM REQUIRED	TOTAL CFM PROVIDED	EXHAUST FAN
NEW BEDROOM 3 BATHROOM	60	–	–	50 CFM/W.C.	50	50	EF–1
TOTAL	60.0				50.0	50.0	

NOTES:
1. CALCULATIONS ARE BASED ON LOCAL CODE REQUIREMENTS, FBC–2020 AND ICC.

4% VENTILATION OPEN AREA CALCULATIONS

REFER TO ARCHITECTURAL PLANS FOR
OPEN AIR CALCULATIONS COMPLYING WITH FMC SEC.402.

ARKO ARCHITECTURE, LLC
2980 McFARLANE RD. SUITE 200
COCONUT GROVE, FL 33133
edgardo@thearkogroup.com
eduardo@thearkogroup.com
c: 954.647.1447
c: 305.951.6181

ADDITION & RESTORATION FOR:
MAZZINI & MELINE RESIDENCE
10300 SW 70TH AVE,
MIAMI, FL 33156

Digitally signed by Edgardo J Betancourt Santiago
Date: 2024.02.09 11:07:41-05'00'

STATE OF FLORIDA
EDGARDO J BETANCOURT SANTIAGO
AR99726
REGISTERED ARCHITECT

DRAWN BY –
DATE 04.03.23 CHECKED BY – PROJECT 22-84

REVISIONS
1 BDC 11-09-2023

MECHANICAL NOTES

CONSTRUCTION DOCUMENTS

M1

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M1.pdf

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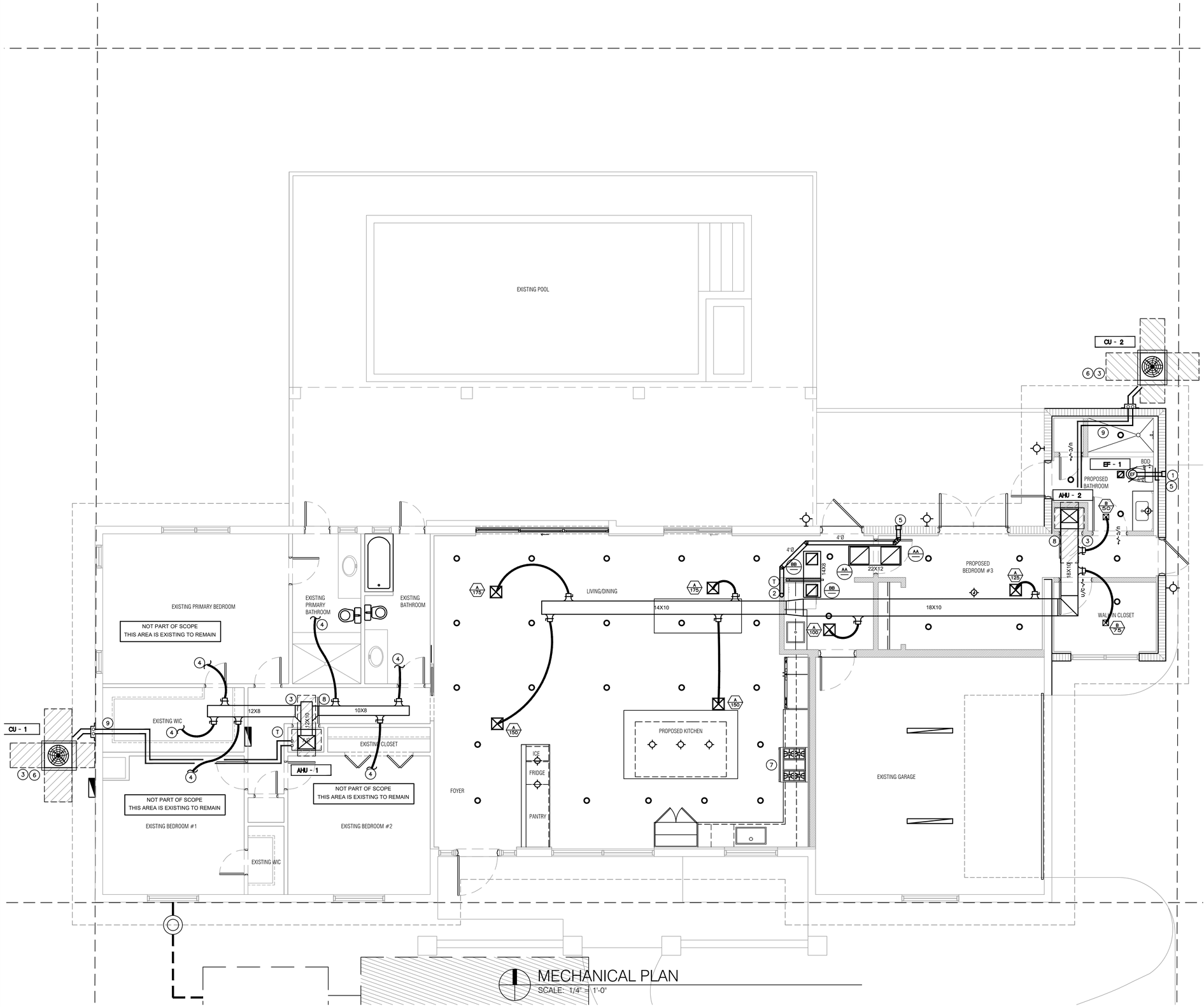

MECHANICAL PLAN
SCALE: 1/4" = 1'-0"

SCOPE OF WORK

1. PROVIDE NEW AC UNIT AND EXHAUST FOR NEW PROPOSED IN LAW QUARTERS
2. RE-USE EXISTING AC UNIT AND PROVIDE NEW DUCTWORK AND DIFFUSERS FOR NEW MODIFIED SPACE.

GENERAL NOTES

1. CONTRACTOR SHALL VISIT THE SITE AND VERIFY EXISTING CONDITIONS PRIOR TO SUBMITTING ANY BID OR COMMENCING ANY WORK. ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT/ENGINEER.
2. ALL INFORMATION SHOWN ON THESE PLANS WAS OBTAINED FROM LIMITED FIELD OBSERVATIONS. THE ENGINEER MAKES NO REPRESENTATION FOR THE ACCURACY OF SUCH INFORMATION AND/OR ALL THE EXISTING MATERIALS, DIMENSIONS, CONDITIONS, ETC.
3. ALL DIFFUSERS IN HARD CEILING SHALL BE PROVIDED WITH INTERNAL CABLE CONTROL TO ADJUST VOLUME DAMPERS.
4. ALL WORK SHALL BE DONE IN CONFORMITY WITH THE LATEST EDITION OF ALL APPLICABLE CODES AND AUTHORITY HAVING JURISDICTION.
5. CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS REGARDING HIS WORK.
6. FOR ALL ADDITIONAL INFORMATION REGARDING SCOPE OF WORK AND BUILDING CONDITION, COORDINATE WITH ARCHITECTURAL PLANS.

KEY NOTES

1. PROVIDE 6"ø EXHAUST DUCT TO X-VENT BOX 6SEB
2. PROVIDE 4"ø DRYER DUCT TO X-VENT BOX 4SEB. CONTRACTOR TO VERIFY CONNECTION SIZE OF DRYER PRIOR TO PURCHASING AND INSTALLATION. EXHAUST SHALL BE 3'0"MIN. AWAY FROM ANY OPERABLE OPENING.
3. PROVIDE SERVICE ACCESS PER MANUFACTURER REQUIREMENTS AND NEC.
4. CONNECT INTO EXISITNG BEDROOM SUPPLY DUCT.
5. EXHAUST DISCHARGE SHALL BE LOCATED 3'-0" MIN. AWAY FROM ANY INTAKE OPENING OR OPERABLE WINDOW
6. PROVIDE 6" CONCRETE PAD FOR CONDENSING UNITS.
7. KITCHEN HOOD BY OWNER (600 CFM MAX). PROVIDE 6" EXHAUST DUCT CONSTRUCT OF GA. STEEL AND TO BE VENTED TO EXTERIOR WITH BACK DRAFT DAMPER. EXHAUST DISCHARGE SHALL BE MIN. 10'-0" AWAY FROM ANY OPERABLE OPENING.
8. PROVIDE PLENUM RATED CLOSET WITH FULLY LOUVERED DOOR PAINTED WITH INTUMESCENT PAINT.
9. FIELD COORDINATE REF. LINES TO CONDENSING UNIT. PROVIDE REF. LINE JACKET AND COORDINATE FINAL LOCATION WITH OWNER/ARCHITECT.

ARKO ARCHITECTURE, LLC
2980 McFARLANE RD. SUITE 200
COCONUT GROVE, FL 33133
edgardo@thearkogroup.com
eduardo@thearkogroup.com
c: 954.647.1447
c: 305.951.6181

ADDITION & RESTORATION FOR:

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10300 SW 70TH AVE,
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Date: 2023.08.24 16:08:54-04'00'

STATE OF FLORIDA
EDGARDO J BETANCOURT SANTIAGO
AR99726
REGISTERED ARCHITECT

DRAWN BY
DATE -- PROJECT
04.03.23 CHECKED BY 22-84
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REVISIONS

MECHANICAL PLAN

CONSTRUCTION DOCUMENTS

M2

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Department of Regulatory and Economic Resources
Impact Fee Assessment

Process Number: M2024008996-0 **Batch:** **Collection Number:**

Folio: 2050020430100 **Site Address:** 10300 SW 70 AVE

CP*: N **Assessment Date:** 03/20/2024

Fee Payer:

Online Payment available at:

https://wwwx.miamidade.gov/apps/rer/ImpactFeesPayments/default.aspx

Payment can be made by Credit Card, Cash, Check or Cashiers's Check Payable to Miami Dade County

CP*: Exempt from Public Records 119.071 Florida Statues
Y: Exempt
N: No Exempt
Blank: No info

Fee Type	Dist Id	Category Code	Cat Sufix	Category Description	Units	Fee	Extended Amount
AREA							
	1	5002	00	UNIT SIZE (SQ FT)	236	$0.9180	$216.65

Assessment Total Amount: $216.65

Deferral Amount: $0.00

Current Balance Due: $216.65

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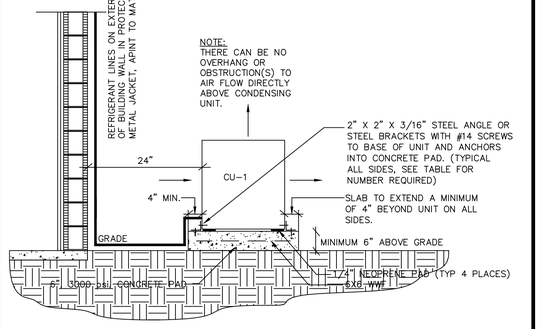
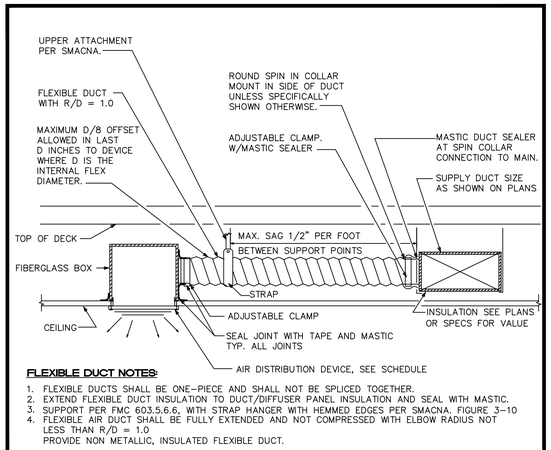
NOTE:
INSTALLATION SHALL COMPLY WITH 2020 FMC, PAR. 301.15

UNIT SIDE	LESS THAN 12"	12" TO 24"	24" TO 36"	MORE THAN 36" OR ABOVE 5 TON.
SCREWS				SHALL COMPLY WITH SECTION 301.12
NUMBER PER EACH SIDE	1	2	3	



CONDENSING UNIT MOUNTING DETAIL
NOT TO SCALE



FLEXIBLE DUCT NOTES:
1. FLEXIBLE DUCTS SHALL BE ONE-PIECE AND SHALL NOT BE SPLICED TOGETHER.
2. EXTEND FLEXIBLE DUCT INSULATION TO DUCT/DIFFUSER PANEL INSULATION AND SEAL WITH MASTIC.
3. SUPPORT PER FMC 603.5.6.6, WITH STRAP HANGER WITH HEMMED EDGES PER SMACNA. FIGURE 3-10
4. FLEXIBLE AIR DUCT SHALL BE FULLY EXTENDED AND NOT COMPRESSED WITH ELBOW RADIUS NOT LESS THAN R/D = 1.0
   PROVIDE NON METALLIC, INSULATED FLEXIBLE DUCT.

FLEX DUCT DETAIL
NOT TO SCALE

AIR CONDITIONING SPLIT SYSTEM EQUIPMENT SCHEDULE

CONDENSING UNIT

CU TAG	MANUFACTURER & MODEL	NOMINAL TONNAGE	CAP. STAGES	(S)EER2/IPLV	REFRIG.	LIQ-SUCT.	NO. FANS	FAN FLA(EA)	NO. COMP.	COMP.RLA(EA)	VOLTAGE/PH	MCA/MOCP	WEIGHT (LBS)	L x W x H (IN)	NOTES
NEW CU-1	TRANE 4TTR4018N	1.5	1	14.3/-	R-410A	SEE MANUAL	1	0.9	1	10.1	208-230/1	13/20	133	26X29X29	SEE BELOW
NEW CU-2	TRANE 4TTR4030N	2.5	1	14.3/-	R-410A	SEE MANUAL	1	0.77	1	12.2	208-230/1	16/25	156	30X33X33	SEE BELOW

AIR HANDLING UNIT

AHU TAG	MANUFACTURER & MODEL	TOTAL MBH	SENSIBLE MBH	TOTAL CFM	O/A CFM	E.S.P.("W.G.)	ENT. DB/WB	LEAV. DB/WB	ROWS/FPI	FAN HP/FLA	HEATER	VOLTAGE/PH	MCA/MOCP	WEIGHT (LBS)	L x W x H (IN)	NOTES
NEW AHU-1	TRANE TEM4B0B24	18.0	12.0	600	-	0.4	75/62	56.2/52.7	-/-	1/3 /2.8	3.8 KW	240/1	28/30	110	22X19X45	SEE BELOW
NEW AHU-2	TRANE TEM4A0B31	31.0	22.0	1000	-	0.4	75/62	54.6/52.1	-/-	1/3 /2.8	4.8 KW	240/1	33/35	138	22X19X47	SEE BELOW

(**) INDOOR UNIT POWERED BY OUTDOOR UNIT

NOTES:
1. UNITS RATED PER ARI 210, 240 AND 270, APPROVED EQUAL: AAON, CARRIER, TRANE
2. PROVIDE WITH THERMAL EXPANSION VALVES, LIQUID LINE FILTER DRYER AND MULTI-USE SERVICE VALVES
3. PROVIDE COMPRESSOR WITH CRANKCASE HEATER AND MIN. 5-YEAR WARRANTY
4. PROVIDE HIGH AND LOW PRESSURE CONTROL AND OVER TEMPERATURE PROTECTION.
5. PROVIDE WEATHERPROOF ELECTRIC CONTROLS AND SINGLE SIDE SERVICE ACCESS
6. PROVIDE SINGLE POINT POWER ENTRY AND HEAVY DUTY NICKEL-CHROMIUM ELEMENT HEATER
7. PROVIDE 1" THROWAWAY, MIN. MERV 8 FILTER AND VIBRATION ISOLATION FOR AHU
8. PROVIDE COASTAL CORROSION PROTECTION FOR CONDENSING UNIT, FULLY DIPPED COIL (BY MANUFACTURER)
9. PROVIDE FACTORY MOUNTED FUSIBLE DISCONNECT/STARTER FOR A.H.U., COORDINATE PRIOR TO PURCHASING
10. PROVIDE DISCONNECT FOR C.U. (INSTALLED BY ELECTRICAL) COORDINATE PRIOR TO PURCHASING
11. PROVIDE PROGRAMMABLE THERMOSTAT.
12. PROVIDE REFRIGERANT LINES SIZE AS RECOMMENDED BY MANUFACTURER, NOT TO EXCEED 150 FT. EQUIV. LENGTH FOR LONGER RUNS COORDINATE WITH MANUFACTURER PRIOR TO PURCHASE OR ANY WORK.
13. PROVIDE CONDENSATE PUMP AS REQUIRED..
14. PROVIDE A LIQUID LINE SOLENOID VALVE INSTALLED AT THE AHU IF THE INSTALLED LINEAL LENGTH OF THE REFRIGERANT LIQUID LINES EXCEEDS 75 FT (FIELD VERIFY).
15. PROVIDE A SUCTION LINE ACCUMULATOR IF THE INSTALLED LINEAL LENGTH OF THE REFRIGERANT SUCTION LINES EXCEEDS 100 FT (FIELD VERIFY).
16. PROVIDE CORROSION PROTECTION COATING FOR CONDENSER COIL WITH MIN. 5-YEAR WARRANTY COATING BY SURFSIL, LUVATA, THERMOGUARD OR BYGOLD.
17. PROVIDE 3" AUXILLARY DRAIN PAN WITH AUTOMATIC SHUT OFF FLOAT SWITCH OR SENSOR SWITCH IN UNIT'S DRAIN PAN SECONDARY CONNECTION, EQUAL TO "WATER GARD
18. AS APPLICABLE, MANUFACTURE AND INSTALLATION SHALL COMPLY W/FMC 301.15 FOR WIND RESISTANCE

COORDINATION NOTE:
MECHANICAL CONTRACTOR SHALL COORDINATE ALL ELECTRICAL REQUIREMENTS AND ACCESSORIES WITH ELECTRICAL CONTRACTOR PRIOR TO PURCHASING AND INSTALLATION AND SHALL BRING ANY DISCREPANCIES TO THE ATTENTION OF ENGINEER. COORDINATE LINE LENGTH WITH TRANE PRIOR TO PURCHASE AND INSTALLATION. LINE LENGTH SHALL BE APPROVED BY MANUFACTURER.

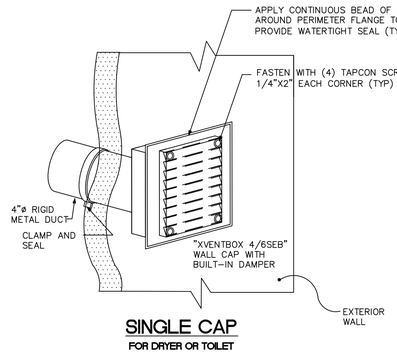
EXHAUST FAN SCHEDULE

SELECTION DATA					FAN DATA			MOTOR DATA					GENERAL DATA				
TAG	SERVICE AREA	MANUF.(*)	MODEL	CONFIG.	CFM	ESP ("WG)	SONES	HP	RPM	DRIVE	VOLTAGE	WEIGHT (LBS)	DIMENSIONS L"xW"xH"	OPENING L"xW"	CONTROL	ACCESSORIES
EF-1	BEDROOM BATHROOM	GREENHECK	SP-A90	CEILING	50	.37	0.8	14 WATTS	900	DIRECT	120/1/60	12	11X13X9	*	LIGHT INTERLOCK	SEE BELOW

(*) APPROVED EQUAL MANUFACTURER: COOK, TWIN-CITY, ACME,

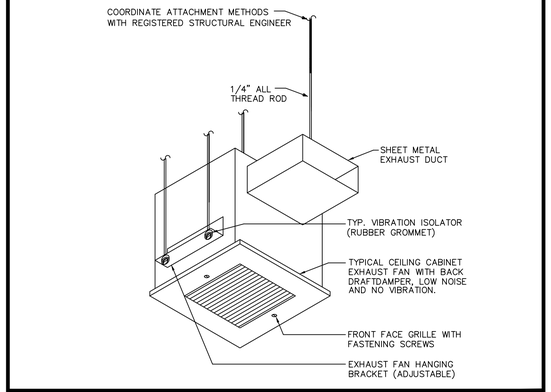
ACCESSORIES NOTES:
1. PROVIDE GRILLE COLOR PER ARCH. SPECS
2. PROVIDE BACK DRAFT DAMPER
3. PROVIDE FACTORY MOUNTED DISCONNECT SWITCH AND INTEGRAL THERMAL OVERLOAD PROTECTION, COORDINATE WITH ELECTRICAL CONTRACTOR PRIOR TO ANY PURCHASING.
4. PROVIDE BIRD SCREEN
5. LOCATE BACK DRAFT DAMPER AT DISCHARGE
6. SUPPORT FROM STRUCTURE COMPLETE WITH VIBRATION ISOLATORS
7. PROVIDE XVENT BOX
8. PROVIDE STEP DOWN TRANSFOMER FOR LIGHT INTERLOCK

NOTES:
- a. MOTOR STARTERS, FUSED DISCONNECTS AND ALL EQUIPMENT POWER WIRING PROVIDED BY ELEC. CONTRACTOR MECHANICAL AND ELECTRICAL CONTRACTORS TO COORDINATE PRIOR TO ANY WORK AND PURCHASING
- c. FIELD ADJUST OPENINGS WITH STRUCTURE.
- e. COORDINATE WITH ELECTRICAL CONTRACTOR BEFORE BIDDING OR ORDERING ANY EQUIPMENT.
- f. SEE PROJECT PLANS AND SPECIFICATIONS FOR OTHER FIELD SUPPLIED ITEMS AND ADDITIONAL INFORMATION.
- g. COORDINATE FINISH WITH ARCHITECT/OWNER



SINGLE CAP
FOR DRYER OR TOILET

WALL CAP DETAIL



CABINET EXHAUST FAN DETAIL
NOT TO SCALE

DIFFUSER/GRILLE SCHEDULE

SUPPLY (TAG / CFM)

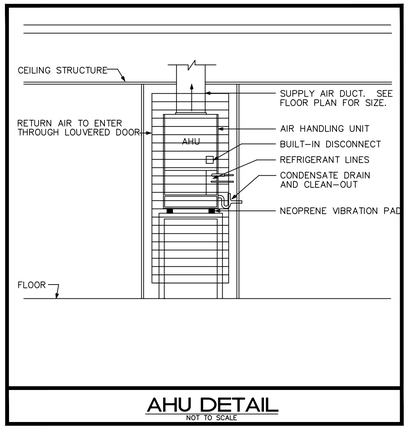
TAG	MANUF. & MODEL	FACE SIZE	NECK SIZE	MATERIAL	FRAME	FINISH	DAMPER	THROW	NC	CFM RANGE	NOTES
A	PRICE 640S	14X14	12X12	ALUM.	SURFACE	OFF WHITE	OBD	4-WAY	MAX. 30	SEE SCH.	SEE BELOW
B	PRICE 640S	8X8	6X6	ALUM.	SURFACE	OFF WHITE	OBD	2-WAY	MAX. 30	SEE SCH.	SEE BELOW
RETURN (TAG / CFM)											
AA	PRICE 630	22X22	20X20	ALUM.	SURFACE	OFF WHITE	-	-	MAX. 30	SEE SCH.	SEE BELOW
BB	PRICE 630	16X16	14X14	ALUM.	SURFACE	OFF WHITE	-	-	MAX. 30	SEE SCH.	SEE BELOW

(*) EQUIVALENT MANUFACTURER: TITUS, KRUEGER, AIRGUIDE, T & B, NAILOR

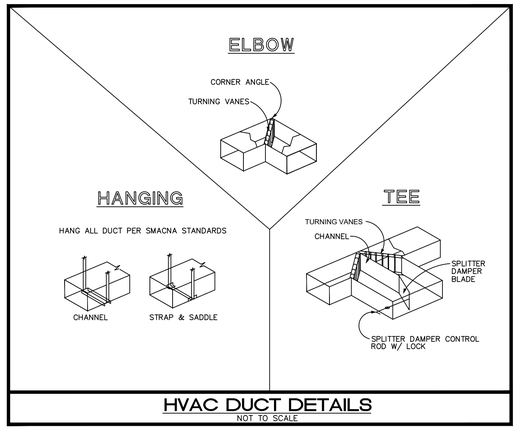
GENERAL NOTES:
1. PROVIDE SPIN-IN COLLAR WITH VOLUME DAMPER AT TRUNK TO FLEX DUCT CONNECTION (SEE DETAIL).
2. PROVIDE TYPICAL 4-WAY DIFFUSION, 2-WAY OR 3-WAY ONLY WHERE INDICATED ON PLANS.
3. REFER TO ARCHITECT PLANS FOR CEILING TYPE.
4. FINAL COLOR SELECTION SUBJECT TO ARCHITECT APPROVAL.
5. FLEX DUCT SIZE TO BE SAME AS DIFFUSER NECK SIZE.
6. PROVIDE INSULATION ON THE BACK OF DIFFUSER IF IN UNCONDITIONED SPACE
7. PROVIDE VOLUME CONTROL DAMPERS FOR ALL RETURN GRILLES OR REGISTERS FOR BALANCED AIRFLOW.
8. PROVIDE INTERNAL CABLE CONTROL FOR DIFFUSERS IN HARD CEILINGS.

CONTRACTOR SHALL VERIFY WITH ARCHITECT AND TENANT/OWNER, PRIOR TO ANY PURCHASING OR INSTALLATION, IF A BUILDING STANDARD HAS TO BE FOLLOWED REGARDING A SPECIFIC MODEL OR MANUFACTURER AND SHALL BRING ANY DISCREPANCY TO THE ATTENTION OF ENGINEER.

S/A FLEX SCHEDULE	
6ø"	50-125 CFM
8ø"	130-200 CFM
10ø"	205-330 CFM
12ø"	335-450 CFM
14ø"	455-700 CFM



AHU DETAIL
NOT TO SCALE



HVAC DUCT DETAILS
NOT TO SCALE

ARKO ARCHITECTURE, LLC
2980 McFARLANE RD. SUITE 200
COCONUT GROVE, FL 33133
edgardo@thearkogroup.com
eduardo@thearkogroup.com
c: 954.647.1447
c: 305.951.6181

ADDITION & RESTORATION FOR:
MAZZINI & MELINE RESIDENCE
10300 SW 70TH AVE,
MIAMI, FL 33156

Digitally signed by Edgardo J Betancourt Santiago
Date: 2023.08.24 16:08:42-04'00'

STATE OF FLORIDA · EDGARDO J BETANCOURT SANTIAGO · REGISTERED ARCHITECT · AR99726

DRAWN BY --
DATE 04.03.23 CHECKED BY -- PROJECT 22-84

REVISIONS

MECHANICAL SCHEDULES AND DETAILS

CONSTRUCTION DOCUMENTS

M3

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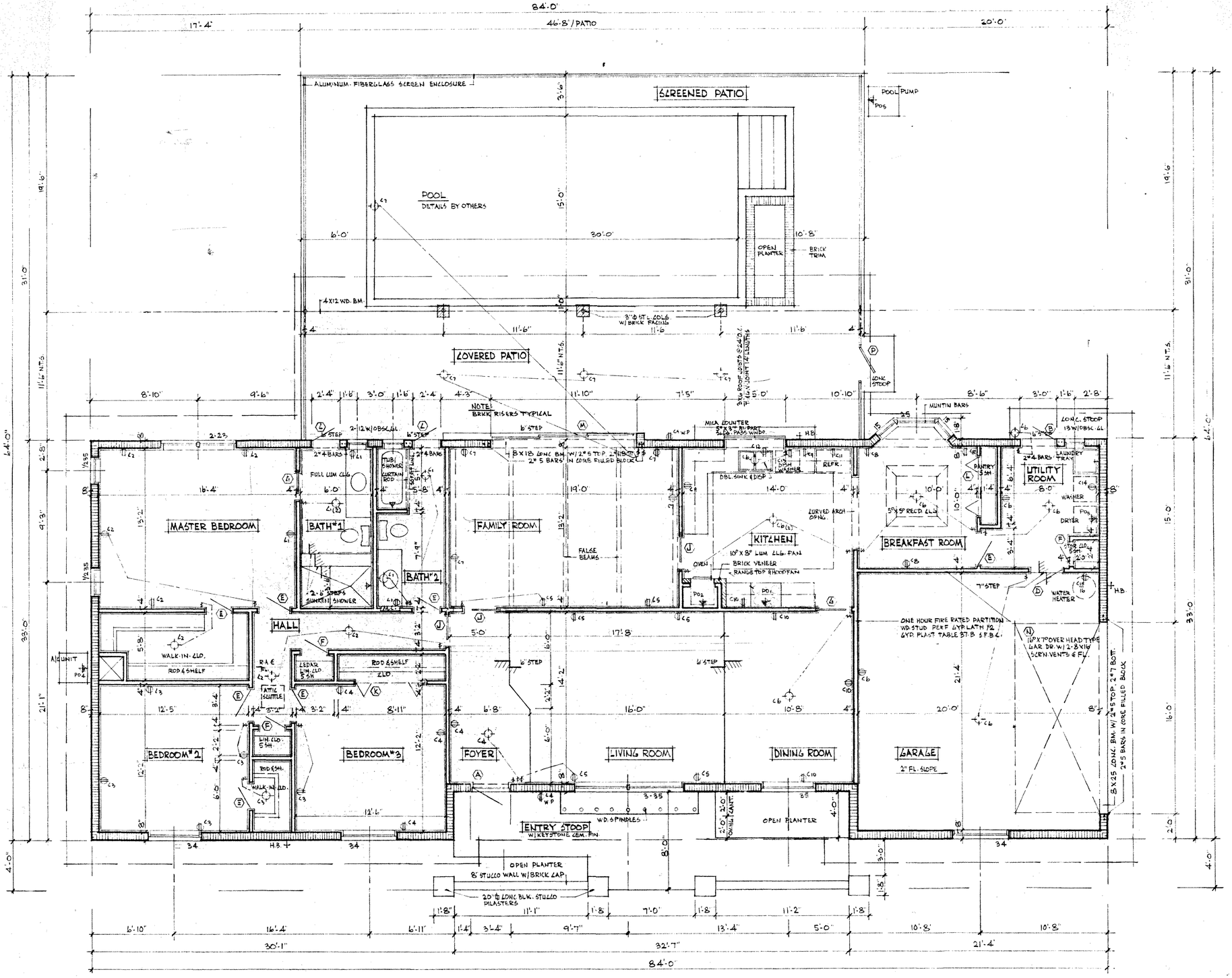


FLOOR PLAN

1/4" = 1'-0"

ROOM FINISH SCHEDULE

ROOM	FLOOR	BASE	WSCT.	WALLS	CEILING	REMARKS
FOYER	VINYL	WOOD	NONE	PLAST.	PLAST	
LIVING ROOM	CER. FIN	DO.		DO.		
DINING ROOM	DO.			DO.		
FAMILY ROOM	VINYL			WD. PAN.		* WD. PAN ALL WALLS
KITCHEN	DO.			PLAST. *		* * SM. FIN. PLAST.
BREAKFAST ROOM	DO.			"		* * DO.
UTILITY ROOM	DO.					
HALL	CER. FIN					
MASTER BEDROOM	DO.					
BEDROOM #2	DO.					
BEDROOM #3	DO.	▽	▽	▽	▽	
CLOSETS	SAME	AS	ADJOINING		ROOM	
BATH #1	CER TILE	CER TILE	NONE	PLAST. *	PLAST * *	SM. FIN PLAST
BATH #2	DO.	DO.	DO.	DO. *	DO * *	DO.
GARAGE	CONC.	NONE	DO.	SKIP TROWEL PLAST. PART STUCCO	DO.	
COVERED PATIO	KEYSTONE CEM. FIN	DO.	DO.		EXP'D.	
SCREENED PATIO	DO.	ALUMINUM - FIBERGLASS SCREEN ENCLOSURE				

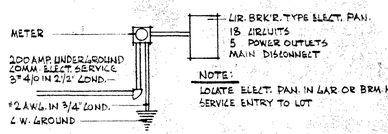
NOTE: MARBLE WINDOW STOOLS TYPICAL

DOOR SCHEDULE

MARK	SIZE	TYPE	CORE	REMARKS
A	3'0" X 6'8" X 1 3/4	PANEL	SOLID	EXT'R. M.T. & W.S.
B	2'8" X 6'8" X 1 3/4	FLUSH	HOLLOW	EXT'R.
C	2'8" X 6'8" X 1 3/4	DO.	DO	EXT'R.
D	2'8" X 6'8" X 1 3/8	DO.	DO.	MET. CLAD CAR. SIDE W/ AUTOMATIC CLOSER
E	2'0" X 6'8" X 1 3/8	DO.	DO.	
F	2'0" X 6'8" X 1 3/8	DO.	DO.	
G	2'8" X 6'8" X 1 3/8	DO.	DO.	SLDG. POCKET
H	NOT USED			
J	2'8" X 6'8" X 1 3/8	LOUVER	SOLID	DO. FULL LOUVER
K	6'0" X 6'8" OPNG.	DO.	DO.	BI-FOLD DO.
L	5'0" X 6'8" OPNG.	DO.	DO.	DO. DO.
M	11'8" X 6'8" OPNG.	3-DR. 3-TRACK. ALUM.-GL. SLDG. DRS W/ RECESS		
N	18'0" X 7'0" OPNG.	OVERHEAD TYPE GARAGE DOOR		
P	2'8" X 6'8" OPNG.	ALUMINUM - FIBERGLASS SCREEN DOOR		

ELECTRICAL SCHEDULE

CIR.	DESCRIPTION	⊕	⊖	WIRE	COND	POLE	TRIP	LOAD
L_1	GENERAL	3	4	#14	1/2"	1	15.0	3.0
L_2	DO.	4	3					3.0
L_3	DO.	5	1					3.0
L_4	DO.	5	2					3.0
L_5	DO.	6	0					3.0
L_6	DO.	2	8					3.0
L_7	DO.	4	4	#14			15.0	3.0
L_8	SMALL APPLIANCE	3	—	#12			20.0	4.5
L_9	DO.	3	—					4.5
L_{10}	DO.	4	—					4.5
L_{11}	REFRIGERATOR	1	—					3.0
L_{12}	DISPOSAL	1	—					3.0
L_{13}	DISH WASHER	1	—					4.5
L_{14}	WASHER	1	—	#12	1/2"	1	20.0	4.5
$L_{15/16}$	WATER HEATER	1	—	#10	3/4"	2	30.0	15.0
$L_{17/18}$	SPARE	—	—	—	—	—	15.0	6.0
P_{O1}	RANGE	1	—	3#6	1"	2	50.0	33.0*
P_{O2}	OVEN	1	—	3#6	1"	2	40.0	
P_{O3}	DRYER	1	—	3#8 +10	3/4	2	40.0	22.5*
P_{O4}	A/C UNIT	1	—	3#8	3/4	2	40 TDF	27.0*
P_{O5}	POOL PUMP	1	—	#12	1/2"	2	20.0	6.9*
	50 + (20.5 X 80%) DEMAND FACTOR			= 66.4				70.5
	89.4* X NO DEMAND FACTOR			= 89.4				89.4*
	TOTAL ADJUSTED LOAD			= 155.8 AMPS.				



ELECTRICAL DIAGRAM

NO SCALE

7150

HUDSON & ROOT ARCHITECTS
1550 SOUTH DIXIE HIGHWAY CORAL GABLES 33146 FLORIDA

COMM. NO. 7182 | DRAWN L.W.L. | DATE 5-24-71

#5104 RESIDENCE FOR LAZARUS DEVEL. CORP.
DADE COUNTY, FLORIDA

SHEET 2 OF 3

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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 BL2023-1183

LOCATION OF IMPROVEMENTS

Job Address 10300 SW 70TH AVE
Folio 20-5002-043-0100
Lot 10 Block 4
Subdivision THIRD ADDN TO KENDALL EAST PBpg 90-49
Metes and bounds 12323-1102 1184 4

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
- [X] Alteration Interior
- [ ] Alteration Exterior
- [ ] Relocation of Structure
- [ ] Enclosure
- [ ] Repair
- [ ] Repair Due to Fire
- [ ] Demolish
- [ ] Shell Only
- [X] Addition Attached
- [ ] Addition Detached
- [ ] Re-Roof
- [ ] Foundation Only
- [ ] Tent

Current use of property RESIDENTIAL SINGLE FAMILY
Description of Work 1100 sf Int. Renovation 228sf addition
Sq. Ft. 1,328 Units 1 Floors 1
Value of Work 150,000

PERMIT TYPE

- [X] MBLD* Category 2
- [ ] MELE
- [ ] MPLU
- [ ] MLPG
- [ ] MMEC
- [ ] FIRE

REVIEW STATUS

- [ ] Chg. Contractor
- [ ] Re-Issue
- [ ] Re-Stamp
- [ ] Revision
- [ ] Not Applicable for Fire

OWNER'S NAME

Owner VANESSA MELINE & JUAN MAZZINI
Address 10300 SW 70TH AVE
City PINECREST State FL Zip 33156
Phone 786.212.0919
Last four (4) digits of Owner's Social Security No.

PERSON TO PICK UP PLANS

Name EDUARDO VERA
Address 2490 CORAL WAY STE. 301
City MIAMI State FL Zip 33145
Phone 305-400-8133

ARCHITECT / ENGINEER

Owner EDGARDO J BETANCOURT
Address 2490 CORAL WAY STE. 301
City MIAMI State FL Zip 33145
Phone 305-400-8133

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:

PERA OPTIONAL PLAN REVIEW (OPR)

I am requesting Optional Plan Review (OPR) to be scheduled as soon as possible at the rate of $75 for each discipline. Additional review fees may apply.

1st Request: Date:
2nd Request: Date:
3rd Request: Date:

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BUILDING PERMIT CATEGORIES

CATEGORY	DESCRIPTION	PERMIT TYPE
BUILDING		
01	GENERAL BUILDING—COMMERCIAL	MBLD
02	SUB—GENERAL BUILDING—RESIDENTIAL	MBLD
08	CANVAS AWNING	MBLD
10	COMMUNICATION TOWER	MBLD
15	DEMOLITION	MBLD
29	METAL AWNING & STORM SHUTTER	MBLD
48	SCREEN ENCLOSURES	MBLD
51	MURAL SIGNS (NON-ELECTRICAL)	MBLD
55	SWIMMING POOL	MBLD
56	TENNIS COURTS (SURFACE PAVING)	MBLD
86	TRAILER TIE DOWN	MBLD
88	WALK-IN COOLER	MBLD
91	MARINAS	MBLD
92	LOW SLOPE APPLICATIONS (GRAVEL, SMOOTH MODIFIED, SINGLE PLY)	MBLD
95	SHINGLES (ASPHALT, FIBERGLASS)	MBLD
96	SHINGLES (METAL ROOFS/WOOD SHINGLES & SHAKE)	MBLD
97	STAGE 2 VAPOR RECOVERY SYSTEM	MBLD
99	SOIL IMPROVEMENT	MBLD
0100	BULK STORAGE PROPANE TANK	MBLD
0101	REMOVABLE STORM PANELS	MBLD
0107	TILE ROOF	MBLD
0110	WATER MAIN	MBLD
0111	SITE PLAN	MBLD
0112	INDOOR EVENT/EXHIBIT	MBLD
ELECTRICAL		
04	FIRE ALARM SPECIALTY	MELE
16	SPECIALTY WIRING	MELE
38	GENERATORS	MELE
PLUMBING		
0020	SEWER CONNECTION TO PUBLIC SYSTEM (THIS CATEGORY IS USED WHEN NO BUILDING PERMIT EXIST)	MPLU
0024	INTERCEPTOR/GREASE TRAPS (REPLACEMENT OR INSTALLATION THAT IS NOT PART OF A BUILDING PERMIT)	MPLU
LPGX		
01	LIQUEFIED PETROLEUM GAS	MLPG
02	MISCELLANEOUS	MLPG
04	LIQUEFIED PETROL. GAS/STATE	MLPG
MECHANICAL		
09	ABOVE/BELOW GROUND TANKS/PUMPS & POLLUTANT STORAGE SYSTEM	MMEC
38	COMMERCIAL HOODS	MMEC
43	FIRE CHEMICAL	MMEC
46	SPRAY BOOTHS	MMEC
48	SMOKE CONTROL	MMEC
52	RESIDENTIAL ELEVATOR	MMEC
FIRE		
32	FIRE SPRINKLER	FIRE

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March 18, 2024

RE: 10300 SW 70TH AVE

Process #: M2024008996

IMPACT FEES

COMMENT 1: SHEET A-1.01 LISTS PROPOSED SQUARE FOOTAGE 3440 SF AND 4303 SF, PLEASE CLARIFY..

Response 1: See updated zoning chart and coordinated building coverage (3,430 SF)

DEPARTMENT OF HEALTH

COMMENT 1: DISCREPENCY BETWEEN PROPERTY APPRAISER AND DEMOLITION FLOOR PLAN ON NUMBER OF BEDROO 3 VS 4 BEDS SUBMIT MICROFILM RECORDS SHOWING APPROVAL OF 4 BEDROOMS EXISTING MODIFICATION MAY BE REQUIRED

Response 1: Utility room was mislabeled as bedroom. Existing/Demo sheet D-1.00 has been corrected show utility room correctly labeled. Original floor plan has also been submitted for reference.

COMMENT 2: ADDITIONALLY SHOW DRAINFIELD SIZES AND SETBACKS ON SITE PLAN AS IT APPEARS TO HAVE FOUNDATIONAL STRUCTURES ABUTTING THE SYSTEM
--Application for existing system DEP 4015 Pg 1. Shall be completed in full, signed by the owner, authorized agent, or FS 489 contractor. 62-6.004(2)WriteThe scope of work on the application. (On the Bottom of the page) SCOPE OF WORK: (IS WHAT YOU ARE DOING TO YOUR PROPERTY, IN DETAILS)

Response 2: See requested site plan information on Sheet A-1.01. See attached requested form submitted.

COMMENT 3: RE-submit corrected site plan showing entire septic system (septic tank, drainfield and reserved area) and your scope of work. THE SITE PLAN Must show all septic system Setbacks from building foundation, property line and water line. DRAWN TO SCALE.

Response 3: See requested site plan information on Sheet A-1.01.

DERM Paving & Drainage

COMMENT 1: Provide a grading plan that includes existing/proposed grade elevations within the parcel and adjacent parcels in order to demonstrate that stormwater is retained on-site and not overflowing to adjacent properties. The site/grading must include cross-sections demonstrating the proposed grade transition with the adjacent properties. Provide swales, dry retention areas, or drainage if necessary, and show that the parcel is sloping inward.

Response 1: See added spot elevations throughout site as per the submitted survey.

Thank you for your prompt review and attention. Please do not hesitate to call if you have any other concerns or questions.

Regards,

Edgardo J Betancourt Santiago, RA
Co-Founder
ARKO Architecture, LLC

2490 Coral Way, Ste. 301 **ARKO ARCHITECTURE, LLC** eduardo@thearkogroup.com
Miami, FL 33145 305.951.6181 / 954.647.1447 edgardo@thearkogroup.com

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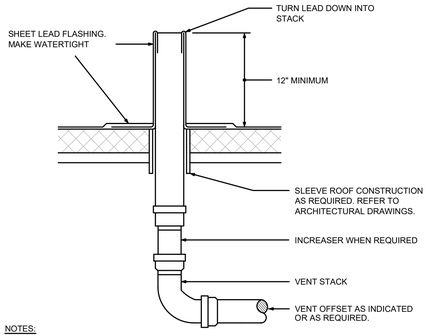
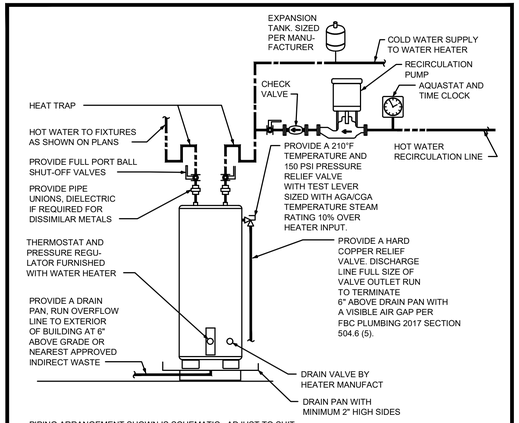
THIS DRAWING IS THE PROPERTY OF THE ARCHITECT HEREBY EXPRESSLY RESERVES THE COPYRIGHT AND PROPERTY RIGHTS IN THESE PLANS. DRAWINGS ARE NOT TO BE REPRODUCED, CHANGED, OR COPIED IN ANY FORM OR MANNER WHATSOEVER WITHOUT FIRST OBTAINING WRITTEN PERMISSION AND CONSENT. NOR ARE THEY TO BE ASSIGNED TO ANY PARTY WITHOUT FIRST OBTAINING SAID WRITTEN PERMISSION AND CONSENT.



NOTES:
1) SIZE OF OPENING IN ROOF DECK TO BE AS SMALL AS POSSIBLE. COORDINATE WITH STRUCTURAL DWGS.
2) FOR ROOF CONSTRUCTION TYPE REFER TO ARCHITECTURAL DWGS.
3) VENT STACK THRU ROOF SHALL BE LOCATED AT A MINIMUM OF 2'-0" AWAY FROM VERTICAL STRUCTURES OR PARAPETS. CONTRACTOR SHALL COORDINATE WITH OTHER TRADES PRIOR TO CONSTRUCTION.
4) VENT STACK THRU ROOF SHALL BE LOCATED AT A MINIMUM OF 10'-0" AWAY FROM ANY OUTSIDE AIR OPENINGS PER FBC-PLBG, SECTION 903.5. CONTRACTOR SHALL COORDINATE WITH OTHER TRADES PRIOR TO CONSTRUCTION.

VENT THROUGH ROOF
NOT TO SCALE



PIPING ARRANGEMENT SHOWN IS SCHEMATIC. ADJUST TO SUIT FIELD CONDITIONS. REFER TO ISOMETRIC RISER FOR PIPE SIZES. SET HEATER THERMOSTAT AT 110° F.

WATER HEATER DETAIL

PLUMBING FIXTURE SCHEDULE

LAV	LAVATORY. SELECTED BY OWNER. PROVIDED AND INSTALLED BY CONTRACTOR
WC	WATER CLOSET. SELECTED BY OWNER. PROVIDED AND INSTALLED BY CONTRACTOR
SH	SHOWER. SELECTED BY OWNER. PROVIDED AND INSTALLED BY CONTRACTOR
TUB	TUB. SELECTED BY OWNER. PROVIDED AND INSTALLED BY CONTRACTOR
SK#	SINK. SELECTED BY OWNER. PROVIDED AND INSTALLED BY CONTRACTOR
OB1	WASHING MACHINE OUTLET BOX, GUY GRAY MODEL #B200 WITH LEAD-FREE QUARTER-TURN VALVES, INTEGRAL WATER-HAMMER ARRESTORS, AND 2" DRAIN CONNECTION.
WCO	WALL CLEANOUT, MIFAB C1430-RD WITH BRONZE PLUG, STAINLESS STEEL COVER, AND SCREW.
A.A.V.	OATEY MODEL #39010 SUREVENT AAV WALL BOX AND METAL GRILLE FACEPLATE
EWH1	ELECTRIC WATER HEATER, BRADFORD WHITE MODEL #RE2H50T10, 50 GAL. 240V/1PH/4.5kW. SET UNIT ON A STAND AND PROVIDE WITH RECIRCULATION PUMP - BELL & GOSSETT MODEL #PL-30B AND THERMAL EXPANSION TANK - AMTROL MODEL #ST-12.
WCO	WALL CLEANOUT, MIFAB C1430-RD WITH BRONZE PLUG, STAINLESS STEEL COVER, AND SCREW.

GENERAL NOTES:
(1) - FIXTURES SHALL BE AS SHOWN OR EQUAL.
(2) - ALL FIXTURES SHALL COMPLY WITH TABLE 604.4 OF FBC 2014.
(3) - ALL FIXTURE TRIM PACKAGES INCLUDING BUT NOT LIMITED TO TRAP, ANGLE STOP, FLUSH VALVE, SUPPLY TUBES, AND CLEANOUT COVER PLATES SHALL BE OF THE SAME FINISH AS THE ABOVE SPECIFIED FAUCET AND PER ARCHITECTURAL FINISH SCHEDULE.
(4) - ALL FIXTURES SHALL BE ROUGHED IN PER MANUFACTURER CUT SHEET TO MAINTAIN UNIFORMITY.

PLUMBING LEGEND

CO	CLEAN OUT
S.O.V.	SHUT-OFF VALVE
COTC	CLEAN OUT TO GRADE
FD	FLOOR DRAIN
CW	DOMESTIC COLD WATER
HW	DOMESTIC HOT WATER
HWR	DOMESTIC HOT WATER RECIRCULATING
HB	HOSE BIBB
VTR	VENT THRU ROOF
	GATE VALVE
	GLOBE VALVE
	CHECK VALVE
#	WATER HAMMER ARRESTER (PDI No.)
FD	FLOOR DRAIN
	SANITARY SEWER PIPING
	VENT PIPING
	DOMESTIC COLD WATER PIPING
	HOT WATER PIPING (110°)
CD	CONDENSATE PIPING
T&P	TEMPERATURE AND PRESSURE RELIEF
	PIPE RISE UP
	PIPE DOWN OR DROP
	CAPPED END OF PIPE
	POINT OF CONNECTION
	P-TRAP

PLUMBING SHEET INDEX

SHEET#	DESCRIPTION
P1	PLUMBING NOTES, LEGENDS, AND DETAILS
P2	EXISTING PLUMBING PLAN
P3	SANITARY PLAN
P4	DOMESTIC WATER PLAN
P5	SANITARY ISOMETRICS AND CALCULATIONS

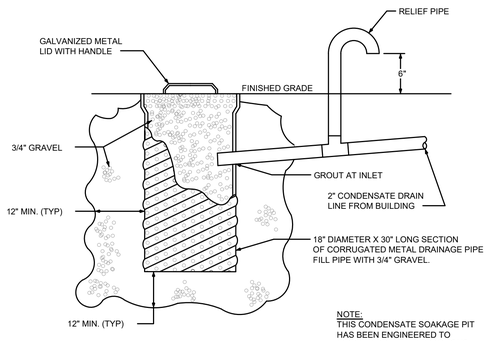
PLUMBING NOTES

1. THE CONTRACTOR SHALL FURNISH ALL LABOR, MATERIALS, AND EQUIPMENT NECESSARY FOR THE INSTALLATION OF A COMPLETE SCOPE OF WORK. ALL WORKMANSHIP AND MATERIALS SHALL BE IN STRICT ACCORDANCE WITH THE FLORIDA BUILDING CODE 7th EDITION (2020) - PLUMBING, APPLICABLE LOCAL CODES, RULES, AND ORDINANCES.
2. THE PLUMBING CONTRACTOR SHALL VISIT THE JOB SITE AND BECOME THOROUGHLY FAMILIAR WITH ALL EXISTING CONDITIONS.
3. ALL MATERIALS SHALL BE NEW AND OF GOOD QUALITY.
4. ALL WORK SHALL BE PERFORMED BY A LICENSED PLUMBING CONTRACTOR IN A FIRST CLASS WORKMANLIKE MANNER. THE COMPLETED SYSTEM SHALL BE FULLY-OPERATIONAL. ALL EXCAVATION AND BACKFILL AS REQUIRED FOR THIS PHASE OF CONSTRUCTION SHALL BE A PART OF THIS CONTRACT.
5. REQUIRED INSURANCE SHALL BE PROVIDED BY THE PLUMBING CONTRACTOR FOR PROTECTION AGAINST PUBLIC LIABILITY AND PROPERTY DAMAGE FOR THE DURATION OF THE WORK.
6. PLUMBING CONTRACTOR SHALL SECURE AND PAY FOR ALL PERMITS, FEES, INSPECTIONS AND TESTS. PLUMBING CONTRACTOR SHALL OBTAIN PERMIT AND APPROVED SUBMITTALS PRIOR TO BEGINNING WORK OR ORDERING EQUIPMENT. PLUMBING CONTRACTOR MUST BE PRESENT FOR ALL INSPECTIONS OF HIS WORK BY REGULATORY AUTHORITIES.
7. CONTRACTOR SHALL SUBMIT TO ARCHITECT/ENGINEER, FOR REVIEW & APPROVAL, FIVE (5) SETS OF MANUFACTURER'S CUT SHEETS FOR EACH FIXTURE, PIPING/FITTING MATERIAL AND EQUIPMENT ITEM WITH ASSOCIATED CONTROLS, THAT ARE INCLUDED IN THE CONTRACT.
8. DRAWINGS ARE DIAGRAMMATIC. DO NOT SCALE FOR THE EXACT LOCATION OF FIXTURES, PIPING, EQUIPMENT, ETC.
9. ALL WORK SHALL BE COORDINATED WITH OTHER TRADES TO AVOID INTERFERENCE WITH THE PROGRESS OF CONSTRUCTION. REPORT ANY DISCREPANCY TO ARCHITECT/ENGINEER PRIOR TO BEGINNING CONSTRUCTION.
10. VERIFY LOCATION, SIZE, DIRECTION OF FLOW AND INVERT ELEVATIONS OF ALL EXISTING UTILITIES PRIOR TO BEGINNING OF CONSTRUCTION. ADVISE ARCHITECT/ENGINEER OF ANY DISCREPANCIES.
11. WATER DISTRIBUTION PIPING ABOVE AND BELOW GROUND SHALL BE TYPE "L" COPPER. ALTERNATE PIPING & FITTING MATERIALS MAY BE USED IN ACCORDANCE WITH FLORIDA BUILDING CODE 7th EDITION (2020) - PLUMBING, TABLES 605.3, 605.4 & 605.5, WHEN APPROVED BY ENGINEER OF RECORD AND LOCAL AUTHORITY HAVING JURISDICTION. PROVIDE ALTERNATE FOR CPVC PIPING & FITTINGS EQUAL TO LUBRIZOL CORZAN OR FLOW-GUARD GOLD. PROVIDE ALTERNATE FOR PEX TYPE 'A' PIPING & FITTINGS EQUAL TO UPONOR. ALTERNATES ARE PERTINENT FOR WATER SERVICES KNOWN OR DETERMINED TO HAVE ACIDIC CHARACTERISTICS OR OTHER PARTICULAR CIRCUMSTANCES AS DEEMED APPROPRIATE BY DIRECTIVE FROM THE OWNER. CONTRACTOR SHALL PERFORM A WATER TEST TO DETERMINE WATER CHEMISTRY PRIOR TO ANY WORK OR PIPING INSTALLATION AND SHALL SUBMIT TEST RESULTS TO THE ARCHITECT/ENGINEER FOR REVIEW AND APPROVAL. DISINFECTION OF POTABLE WATER SYSTEM SHALL COMPLY WITH FLORIDA BUILDING CODE 7th EDITION (2020) - PLUMBING, SECTION 610. ALL WATER PIPING & FITTINGS SHALL BE OF DOMESTIC MANUFACTURE; SPECIFICALLY IN THE UNITED STATES OF AMERICA.
12. SOIL, WASTE, VENT, AND RAINWATER (DWV) PIPING & FITTINGS SHALL BE CAST IRON OR PVC, WHERE CODE ALLOWS. PVC SHALL NOT BE USED IN PLENUMS. PVC PIPING SHALL BE SOLID-CORE ONLY; FOAM-CORE PIPING SHALL NOT BE ACCEPTED. CAST IRON PIPING & FITTINGS SHALL BEAR THE CISPI-301 MARK. ALL DWV PIPING & FITTINGS SHALL BE OF DOMESTIC MANUFACTURE; SPECIFICALLY IN THE UNITED STATES OF AMERICA. ALL HORIZONTAL SANITARY PIPING RUN ABOVE FINISHED FLOOR THAT RECEIVES COLD DRAINAGE FROM REFRIGERATION EQUIPMENT SHALL BE INSULATED WITH ARMAFLEX AND A VAPOR-BARRIER JACKET.
13. NATURAL & PROPANE FUIEL GAS PIPING SHALL BE THE FOLLOWING: UNDERGROUND - PE PIPE COMPLYING WITH ASTM D2683 OR ASTM D3261 AND ASTM D2513, SDR 11 TRANSITION FITTINGS. ABOVEGROUND - SCHEDULE 40 BLACK STEEL COMPLYING WITH ASTM A53 AND THREADED, WELDED, OR FLANGED FITTINGS. CORRUGATED STAINLESS STEEL TUBING COMPLYING WITH ANSI/IAS LC1 SHALL BE ALLOWED ONLY WITHIN INTERIOR ACCESSIBLE SPACES.
14. **COMPRESSED AIR PIPING SHALL BE ASTM B241 EXTRUDED ALUMINUM ALLOY COMPLIANT WITH ASME B31.1 OR GALVANIZED BLACK STEEL IN ACCORDANCE WITH DIN EN 10255. ALUMINUM PIPING AND MECHANICAL GROOVED--JOINT FITTINGS SHALL BE AIRNET, TRANSAIR, OR APPROVED EQUAL. STEEL PIPING AND MECHANICAL GROOVED--JOINT FITTINGS SHALL BE VIEGA MEGAPRESS OR APPROVED EQUAL.**
15. ALL FIXTURES MUST BE PROVIDED WITH READILY ACCESSIBLE ANGLE STOPS AND APPROPRIATELY MARKED ACCESS PANELS (WHERE REQUIRED). COORDINATE LOCATIONS WITH GENERAL CONTRACTOR PRIOR TO INSTALLATION.
16. PROVIDE APPROVED WATER HAMMER ARRESTORS FOR ALL (GROUP) PLUMBING FIXTURES, SIZED & LOCATED PER MANUFACTURER'S INSTALLATION INSTRUCTIONS & PDI-WH201.
17. PROVIDE DIELECTRIC COUPLINGS OR FLANGES BETWEEN ALL DISSIMILAR METALS IN PIPING AND EQUIPMENT CONNECTIONS.
18. ISOLATE COPPER PIPING FROM METALLIC HANGERS OR SUPPORTS WITH ISOLATOR PADS OR NON-CONDUCTIVE MATERIAL.
19. ALL FIRE RATED FLOOR AND WALL PENETRATIONS SHALL BE PROPERLY PROTECTED FROM FIRE, SMOKE AND WATER PENETRATION BY FILLING ANNULAR SPACE BETWEEN PIPING AND SLEEVES WITH INTUMESCENT CAULK, TO ACHIEVE THE SAME RATING AS WALLS OR FLOORS, AS PART OF THE PLUMBING CONTRACTOR'S WORK.
20. PLUMBING CONTRACTOR SHALL GUARANTEE ALL MATERIALS AND WORKMANSHIP FREE FROM DEFECTS FOR A PERIOD OF NOT LESS THAN ONE (1) YEAR FROM DATE OF ACCEPTANCE BY OWNER. CORRECTION OF ANY DEFECTS SHALL BE COMPLETED WITHOUT ADDITIONAL CHARGE AND SHALL INCLUDE REPLACEMENT OR REPAIR OF ANY OTHER PHASE OF THE INSTALLATION WHICH MAY HAVE BEEN DAMAGED.
21. PROVIDE ACCESS PANELS FOR ALL CONCEALED VALVES. ACCESS PANELS IN RATED WALLS SHALL MAINTAIN THE SAME RATING AND SHALL MATCH THE FINISH OF THE WALL IN WHICH IT IS INSTALLED.
22. PROVIDE COMBINATION CLEANOUT PLUG AND COVER PLATE OR ACCESS PANEL FOR ALL WALL CLEANOUTS. FINISH TO MATCH NEARBY FIXTURE TRIM.
23. NO COMBUSTIBLE MATERIAL SHALL BE INSTALLED IN MECHANICAL ROOMS NOR IN CEILING SPACES WHERE USED AS RETURN AIR PLENUMS.
24. NO WATER, SANITARY OR DRAINAGE PIPING SHALL BE INSTALLED IN ELECTRICAL OR ELEVATOR EQUIPMENT ROOMS.
25. ALL CONTROL VALVES SHALL BE TAGGED AND MARKED. A REPRODUCIBLE DIAGRAM LOCATING ALL VALVES SHALL BE FURNISHED FOR OWNER/OPERATOR.
26. CONDENSATE DRAIN PIPING SHALL BE TYPE "L" COPPER WITH ARMAFLEX INSULATION AND A VAPOR-BARRIER JACKET PER FLORIDA BUILDING CODE 7th EDITION (2020) - ENERGY CONSERVATION, TABLE C403.2.8. PVC WITHOUT INSULATION IS ACCEPTABLE FOR RISERS AND BELOW GRADE PIPING. WHEN USED IN A RETURN AIR PLENUM, CPVC PIPING WITH INSULATION IS ACCEPTABLE IN LOCATIONS WHERE ALLOWED BY LOCAL CODES. CONDENSATE PIPING SHALL NOT DRAIN ONTO THE ROOFING SYSTEM NOR ANY OF ITS COMPONENTS. CONDENSATE PIPING ARRANGEMENT IS EXEMPT FROM MINIMUM EQUIPMENT CLEARANCE REQUIREMENTS PER FLORIDA BUILDING CODE 7th EDITION (2020), SECTION 1522.3.5. ALL HORIZONTAL RAINWATER PIPING RUN ABOVE FINISHED FLOOR THAT RECEIVES CONDENSATE DISCHARGE SHALL BE INSULATED WITH ARMAFLEX AND A VAPOR-BARRIER JACKET.
27. HOT WATER PIPING INSULATION SHALL BE PROVIDED IN ACCORDANCE WITH FLORIDA BUILDING CODE 7th EDITION (2020) - PLUMBING, SECTION 607.5 & FLORIDA BUILDING CODE 7th EDITION (2020) - ENERGY CONSERVATION, TABLE C403.2.10. CONTRACTOR SHALL USE ARMAFLEX OR EQUAL WHERE APPLICABLE. WHERE DOMESTIC WATER TEMPERATURES CAN CAUSE SWEATING, ALL COLD WATER PIPING SHALL BE INSULATED WITH ARMAFLEX INSULATION AND A VAPOR-BARRIER JACKET, PER FLORIDA BUILDING CODE 7th EDITION (2020) - ENERGY CONSERVATION, TABLE C403.2.10.
28. AIR ADMITTANCE VALVES MAY BE USED AS AN ALTERNATE TO VENT PIPING THRU ROOF WHERE ACCEPTED BY THE LOCAL AUTHORITY HAVING JURISDICTION. INSTALLATION METHODS SHALL BE IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS AND REQUIREMENTS.

TYPICAL PLUMBING FIXTURE CONNECTION SCHEDULE

TYPE	SOIL / WASTE	VENT	TRAP	CW	HW	REMARKS
2" HUB DRAIN	2"	2"	2"	–	–	PROVIDE ½" CW TRAP PRIMER CONNECTION.
3" HUB DRAIN	3"	2"	3"	–	–	PROVIDE ½" CW TRAP PRIMER CONNECTION.
COFFEE MAKER/WATER FILTER	–	–	–	½"	–	PROVIDE WITH VACUUM BREAKER.
DISHWASHER (RESIDENTIAL TYPE)	1"	–	–	–	½"	CONNECT WASTE TO KITCHEN SINK TAILPIECE. PROVIDE WITH VACUUM BREAKER.
ELECTRIC WATER COOLER	2"	2"	1¼"	½"	–	–
OUTLET BOX	–	–	–	½"	–	PROVIDE w/ INTEGRAL WATER HAMMER ARRESTOR.
WASHING MACHINE OUTLET BOX	3"	2"	2"	½"	½"	PROVIDE w/ INTEGRAL WATER HAMMER ARRESTORS.
SINK	2"	2"	1½"	½"	½"	1.0 GPM AT 60 PSI MAXIMUM.
MOP SINK	3"	2"	3"	½"	½"	PROVIDE HOSE THREAD FAUCET WITH INTEGRAL VACUUM BREAKER.
LAVATORY (PUBLIC)	2"	2"	1¼"	½"	½"	0.5 GPM AT 60 PSI MAXIMUM. (0.25 GALLON METERING CYCLE)
REFRIGERATOR	–	–	–	½"	–	PROVIDE WITH VACUUM BREAKER.
WATER CLOSET (FLUSH VALVE)	3" OR 4"	2"	INTEGRAL	1"	–	1.28 GALLONS PER FLUSHING CYCLE MAXIMUM.
WATER CLOSET (FLUSH TANK)	3" OR 4"	2"	INTEGRAL	½"	–	1.28 GALLONS PER FLUSHING CYCLE MAXIMUM.
URINAL	2"	2"	INTEGRAL	¾"	–	0.128 GALLONS PER FLUSHING CYCLE MAXIMUM.

NOTE: PLUMBING FIXTURE CONNECTION SCHEDULE IS SHOWN FOR CONVENIENCE ONLY. PLUMBING CONTRACTOR TO CONFIRM FINAL PLUMBING FIXTURE CONNECTION SIZES WITH PLUMBING FIXTURE MANUFACTURER'S REQUIREMENTS. ALL FIXTURES SHALL COMPLY WITH REQUIREMENTS OF LOCAL WATER-USE EFFICIENCY ORDINANCES.



NOTE:
THIS CONDENSATE SOAKAGE PIT HAS BEEN ENGINEERED TO ACCOMMODATE UP TO 12 TONS OF HVAC EQUIPMENT

CONDENSATE DRYWELL DETAIL (SMALL)
NOT TO SCALE

SHOCK ARRESTOR SCHEDULE

P.D.I. DESIGNATION	MANUF. & MODEL	FIXTURE UNITS	CONNECTION
A	SIOUX CHIEF 652-A	1-11	1/2"
B	SIOUX CHIEF 653-B	12-32	3/4"
C	SIOUX CHIEF 654-C	33-60	1"

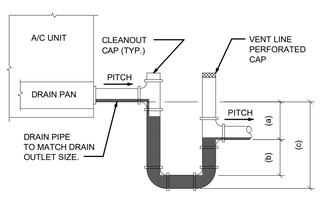
SIOUX CHIEF SHOCK ARRESTORS APPROVED FOR INSTALLATION WITH NO ACCESS DOOR REQUIRED. CONFORMS TO ANSI/ASSE 1010 STANDARDS.

SLOPE OF HORIZ. DRAINAGE PIPE

SIZE (inches)	MINIMUM SLOPE (inch per foot)
2-1/2 or less	1/4
3 to 6	1/8
8 or larger	1/16

TABLE 704.1 OF THE FLORIDA PLUMBING CODE 2017

NOTES:
1. ALLOW SUFFICIENT SPACE BELOW DRAIN PAN FOR TRAP
2. PITCH DRAIN FOR PROPER RUNOFF.
3. MANUALLY PRIME FILL TRAP BEFORE START-UP TO FORM INITIAL DRAIN SEAL.
4. SUPPORT LENGTHY DRAIN LINES TO PREVENT SAG AND CONDENSATE OVERFLOW.



THIS STANDARD DETAIL MUST BE REVIEWED AND SITE ADAPTED BY CONTRACTOR PRIOR TO USE FOR FINAL EQUIPMENT.

(a) THIS DIMENSION IN INCHES MUST BE EQUAL TO THE MAXIMUM FAN SUCTION (NEGATIVE) STATIC PRESSURE IN INCHES WG (WITH DIRTY FILTERS, COILS, AND MAXIMUM AIR FLOW) + 1" W.G.

(b) THIS DIMENSION IN INCHES MUST BE EQUAL TO MIN. 1/2 OF THE (a) ABOVE

(c) EQUALS (a) + (b) + PIPE DIA. + + INSULATION

DRAW THRU UNIT CONDENSATE TRAP
NOT TO SCALE

CONDENSATE DRAIN PIPE SIZING

EQUIPMENT CAPABILITY	MINIMUM CONDENSATE PIPE DIAMETER (inch)
UP TO 20 TONS OF REFRIGERATION	1"
OVER 21 TONS TO 40 TONS OF REFRIGERATION	1-1/4"
OVER 41 TONS TO 60 TONS OF REFRIGERATION	1-1/2"
OVER 61 TONS TO 100 TONS OF REFRIGERATION	2"
OVER 101 TONS TO 250 TONS OF REFRIGERATION	3"
OVER 251 TONS & LARGER OF REFRIGERATION	4"

TABLE 307.2.2 OF THE 2017 FLORIDA BUILDING CODE-MECHANICAL

ARKO ARCHITECTURE, LLC
2980 McFARLANE RD. SUITE 200
COCONUT GROVE, FL 33133
edgardo@thearkogroup.com
eduardo@thearkogroup.com
c: 954.647.1447
c: 305.951.6181

ADDITION & RESTORATION FOR:
MAZZINI & MELINE RESIDENCE
10300 SW 70TH AVE,
MIAMI, FL 33156

Digitally signed by Edgardo J Betancourt Santiago
Date: 2023.08.24 16:08:24-04'00'

STATE OF FLORIDA
EDGARDO J BETANCOURT SANTIAGO
LICENSED
AR99726
REGISTERED ARCHITECT

DRAWN BY –
DATE 04.03.23
CHECKED BY –
PROJECT 22-84

REVISIONS

PLUMBING NOTES

CONSTRUCTION DOCUMENTS

P1

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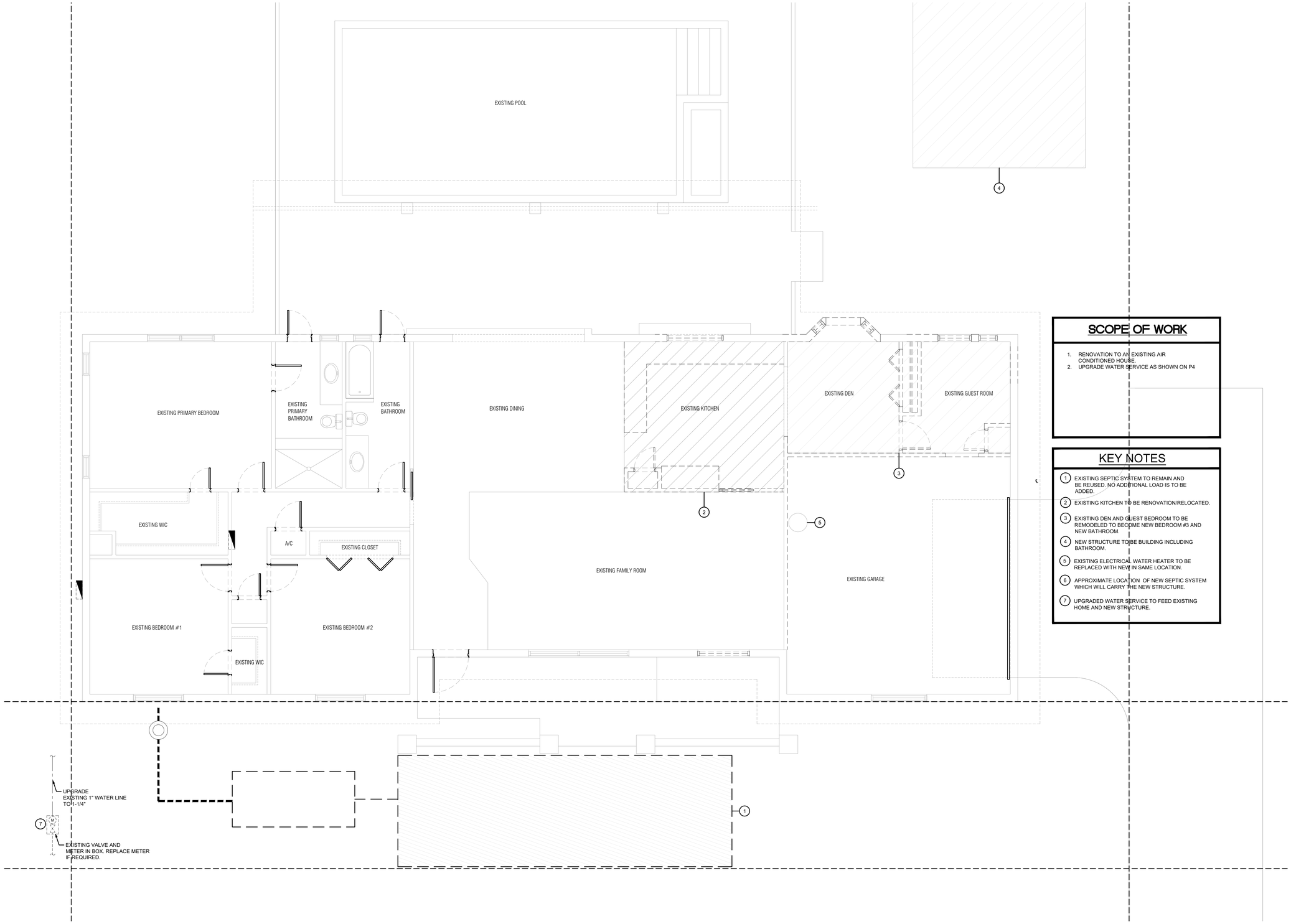

SCOPE OF WORK

1. RENOVATION TO AN EXISTING AIR CONDITIONED HOUSE.
2. UPGRADE WATER SERVICE AS SHOWN ON P4

KEY NOTES

1. EXISTING SEPTIC SYSTEM TO REMAIN AND BE REUSED. NO ADDITIONAL LOAD IS TO BE ADDED.
2. EXISTING KITCHEN TO BE RENOVATION/RELOCATED.
3. EXISTING DEN AND GUEST BEDROOM TO BE REMODELED TO BECOME NEW BEDROOM #3 AND NEW BATHROOM.
4. NEW STRUCTURE TO BE BUILDING INCLUDING BATHROOM.
5. EXISTING ELECTRICAL WATER HEATER TO BE REPLACED WITH NEW IN SAME LOCATION.
6. APPROXIMATE LOCATION OF NEW SEPTIC SYSTEM WHICH WILL CARRY THE NEW STRUCTURE.
7. UPGRADED WATER SERVICE TO FEED EXISTING HOME AND NEW STRUCTURE.

EXISTING PLUMBING PLAN

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

ARKO ARCHITECTURE, LLC
2980 McFARLANE RD. SUITE 200
COCONUT GROVE, FL 33133
edgardo@thearkogroup.com
eduardo@thearkogroup.com
c: 954.647.1447
c: 305.951.6181

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10300 SW 70TH AVE,
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EXISTING PLUMBING PLAN

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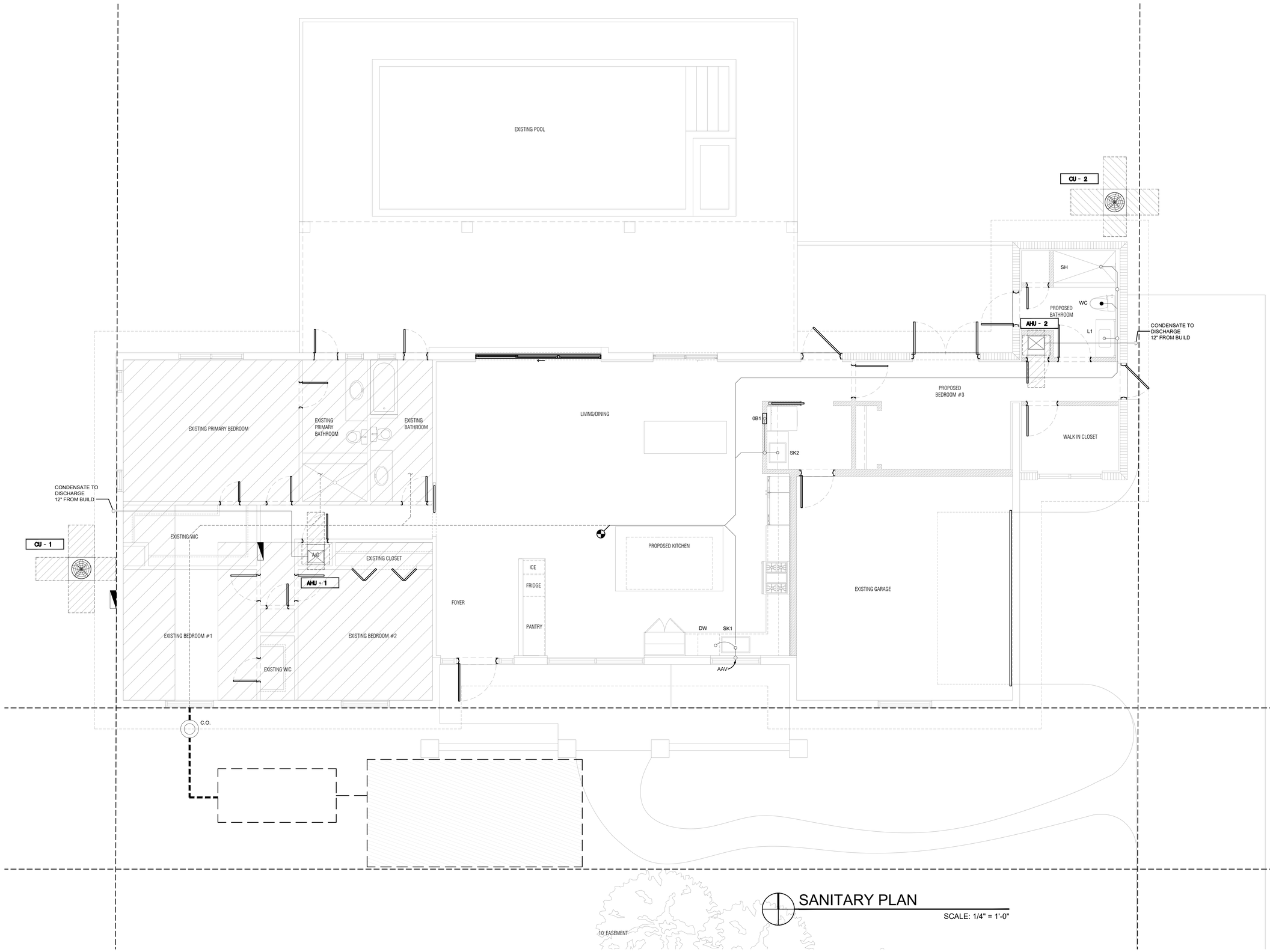

SANITARY PLAN

SCALE: 1/4" = 1'-0"

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2980 McFARLANE RD. SUITE 200
COCONUT GROVE, FL 33133
edgardo@thearkogroup.com
eduardo@thearkogroup.com
c: 954.647.1447
c: 305.951.6181

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10300 SW 70TH AVE,
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SANITARY PLAN

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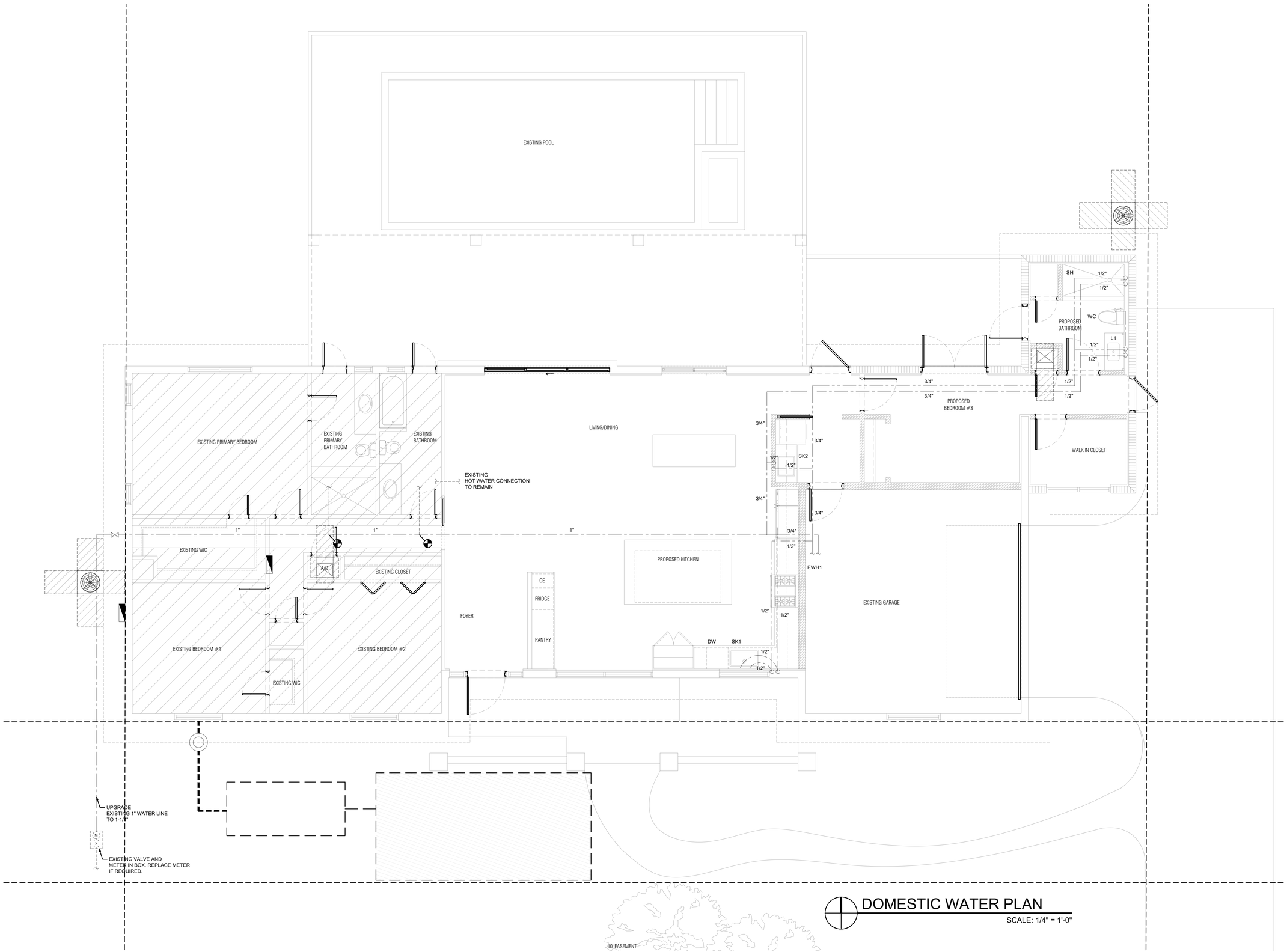

DOMESTIC WATER PLAN

SCALE: 1/4" = 1'-0"

ARKO ARCHITECTURE, LLC
2980 McFARLANE RD. SUITE 200
COCONUT GROVE, FL 33133
edgardo@thearkogroup.com
eduardo@thearkogroup.com
c: 954.647.1447
c: 305.951.6181

ADDITION & RESTORATION FOR:

MAZZINI & MELINE RESIDENCE

10300 SW 70TH AVE,
MIAMI, FL 33156

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DOMESTIC WATER PLAN

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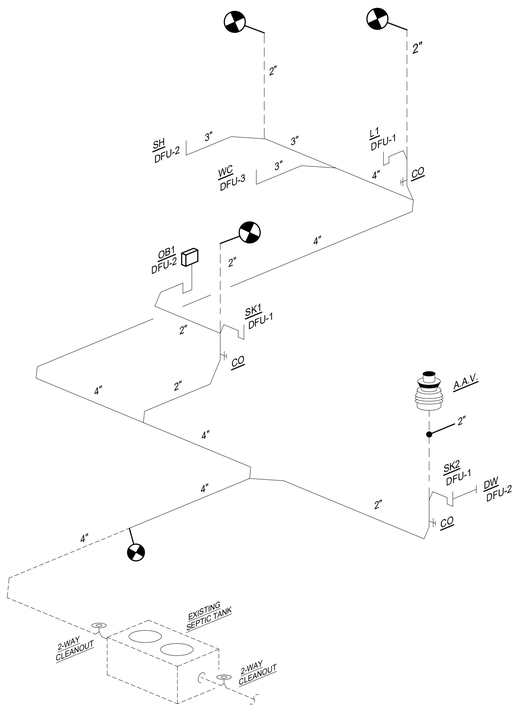
Project Name:	Mazzini & Meline

FIXTURE UNIT TABULATION

FIXTURE	OCCUPANCY	SUPPLY CONTROL	NO. OF FIXTURES	DOMESTIC WTR. S.F.U.'S FIXTURE UNIT VALUES CW	HW	TOTAL	TOTAL F.U.	SANITARY F. U. FIXTURE UNIT VALUES	TOTAL
Bathroom Group	Private	Flush tank	0	2.7	1.5	3.6	0	5	0
Bathroom Group	Private	Flush valve	0	6.0	3.0	8.0	0	5	0
Bathtub	Private	Faucet	1	1.0	1.0	1.4	1.4	2	2
Whirlpool	Private	Faucet	0	3.0	3.0	4.0	0	2	0
Bidet	Private	Faucet	0	1.5	1.5	2.0	0	2	0
Combination Fixture	Private	Faucet	0	2.3	2.3	3.0	0	2	0
Dishwashing Machine	Private	Automatic	0		2.8	1.4	0	2	0
Drinking Fountain	Office, etc.	3/8" valve	0	0.3		0.3	0	0.5	0
Kitchen Sink	Private	Faucet	2	1.8	1.0	1.4	2.8	2	4
Kitchen Sink	Hotel, restaurant	Faucet	0	3.0	3.0	4.0	0	2	0
Laundry trays (1 to 3)	Private	Faucet	0	1.0	1.0	1.4	0	2	0
Lavatory	Private	Faucet	3	0.8	0.5	0.7	2.1	1	3
Lavatory / Sink	Public	Faucet	0	1.5	1.5	2.0	0	1	0
Service Sink	Office, etc.	Faucet	0	2.3	2.3	3.0	0	2	0
Shower head	Public	Mixing Valve	0	3.0	3.0	4.0	0	2	0
Shower head	Private	Mixing Valve	2	2.5	1.0	1.4	2.8	2	4
Urinal	Public	1" flush valve	0	10.0		10.0	0	4	0
Urinal	Private	3/4" flush valve	0	5.0		5.0	0	2	0
Hose Bibb	Public	3/4" Valve	2	3.0		3.0	6	2	4
Washing machine (8 lbs.)	Private	Automatic	0	1.5	1.5	3.0	0	2	0
Washing machine (8 lbs.)	Public	Automatic	1	2.3	2.3	3.0	3	2	2
Washing machine (15 lbs.)	Public	Automatic	0	3.0	3.0	4.0	0	3	0
Water closet	Private	Flush valve	0	6.0		6.0	0	4	0
Water closet	Private	Flush tank	3	1.6		2.2	6.6	3	9
Water closet	Public	Flush valve	0	10.0		10.0	0	6	0
Water closet	Public	Flush tank	0	5.0		5.0	0	4	0
Water closet	Public or private	Flushometer tank	0	2.0		2.0	0	4	0
Floor Drain	-	-	0				0	2	0

FIXTURE UNIT TOTAL'S	CW SFU'S	HW SFU'S		TOTAL SFU'S	TOTAL DRAINAGE FIXTURE UNITS	28
	25	9		25		
GPM TOTAL'S	CW GPM	HW GPM		TOTAL GPM	BUILDING SEWER SIZE	4"
	21	13		21		
WATER PIPE SIZES (8 FPS VELOCITY MAX.)	CW SIZE	HW SIZE		BLDG. SIZE		
	1-1/4"	1"		1-1/4"		



SANITARY ISOMETRIC (EXISTING HOUSE)

SCALE: N.T.S.

TABLE P2903.1

REQUIRED CAPACITIES AT POINT OF OUTLET DISCHARGE

FIXTURE SUPPLY OUTLET SERVING	FLOW RATE (gpm)	FLOW PRESSURE (psi)
Bathtub, balanced-pressure, thermostatic or combination balanced-pressure/thermostatic mixing valve	4	20
Bidet, thermostatic mixing valve	2	20
Dishwasher	2.75	8
Laundry tray	4	8
Lavatory	0.8	8
Shower, balanced-pressure, thermostatic or combination balanced-pressure/thermostatic mixing valve	2.5[a]	20
Sillcock, hose bibb	5	8
Sink	1.75	8
Water closet, flushometer tank	1.6	20
Water closet, tank, close coupled	3	20
Water closet, tank, one-piece	6	20

For SI: 1 pound per square inch = 6.895 kPa, 1 gallon per minute = 3.785 L/m.

ARKO ARCHITECTURE, LLC
2980 McFARLANE RD. SUITE 200
COCONUT GROVE, FL 33133
edgardo@thearkogroup.com
eduardo@thearkogroup.com
c: 954.647.1447
c: 305.951.6181

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MAZZINI & MELINE RESIDENCE

10300 SW 70TH AVE,
MIAMI, FL 33156

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EDGARDO J BETANCOURT SANTIAGO
AR99726
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SANITARY ISOMETRICS AND CALCULATIONS

CONSTRUCTION DOCUMENTS

P5

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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: 10300 SW 70TH AVE FOLIO #: 20-5002-043-0100

DESCRIPTION OF WORK: 1,100 SF Reno int. kitchen & living & 228 SF addition FLOOD ZONE: X AH7 AE7 (AE10) AE11

VALUE OF WORK: $ 150,000.00 PROJECT SQ. FT.: 1,328 SF NO. OF FLOORS: 1

CONTACT: EDUARDO VERA EMAIL: EDUARDO@THEARKOGROUP.COM PHONE: 305.400.8133

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	JUAN ALBERTO MAZZINI
	VANESA MELINE
ADDRESS	10300 SW 70TH AVE.
	PINECREST, FL 33156
PHONE	786.212.0919
EMAIL	VANESA_MELINE@HOTMAIL.COM

CONTRACTOR	
COMPANY	
QUALIFIER	
ADDRESS	
LICENSE #	
PHONE	
EMAIL	

ARCHITECT	
NAME	EDGARDO J BETANCOURT
LICENSE #	AR99726
PHONE	305.400.8133
EMAIL	EDGARDO@THEARKOGROUP.COM

ENGINEER	
NAME	JOAQUIN MONTESINO
LICENSE #	69969
PHONE	786.294.0032
EMAIL	ERNESTO@G2CONSULTING.NET

OFFICE USE ONLY

☐ PERMIT CLERK REVIEW COMPLETE. UPFRONT FEE AMOUNT PAID $_____ (if applicable)

FEES TYPE	AMOUNT	FEES TYPE	AMOUNT
SCAN FEE ($3/PG)		ZONING/PLANNING	
BUILDING FEES		SOLID WASTE	
STORMWATER REVIEW		MUNICIPAL	
MIAMI-DADE COUNTY		STORM DRAINAGE	
FL DBR		IMPACT ADMIN	
FL DCA		SIDEWALK	
FINES		CONCURRENCY	
CERT. OF OCCUPANCY		EXPEDITE- REWORK	
CONSTRUCTION SIGN		TOTAL DUE:	

SECTION	BY	DATE
ZONING/PLANNING		
ELECTRICAL		
MECHANICAL		
PLUMBING		
PUBLIC WORKS		
STRUCTURAL		
STORMWATER		
BUILDING		
BUILDING OFFICIAL		

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Permit Application.pdf

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

JANESA MELINE

PRINT NAME SWORN TO AND SUBSCRIBED BEFORE ME THIS 25 DAY OF AUG ,20 23.

SIGNATURE OF NOTARY PUBLIC, STATE OF FLORIDA

SEAL: JESSICA RODRIGUEZ. Commission # HH 269882. Expires June 1, 2026

PERSONALLY KNOWN ___ OR, PRODUCED IDENTIFICATION _____

TYPE OF IDENTIFICATION PRODUCED: FL License

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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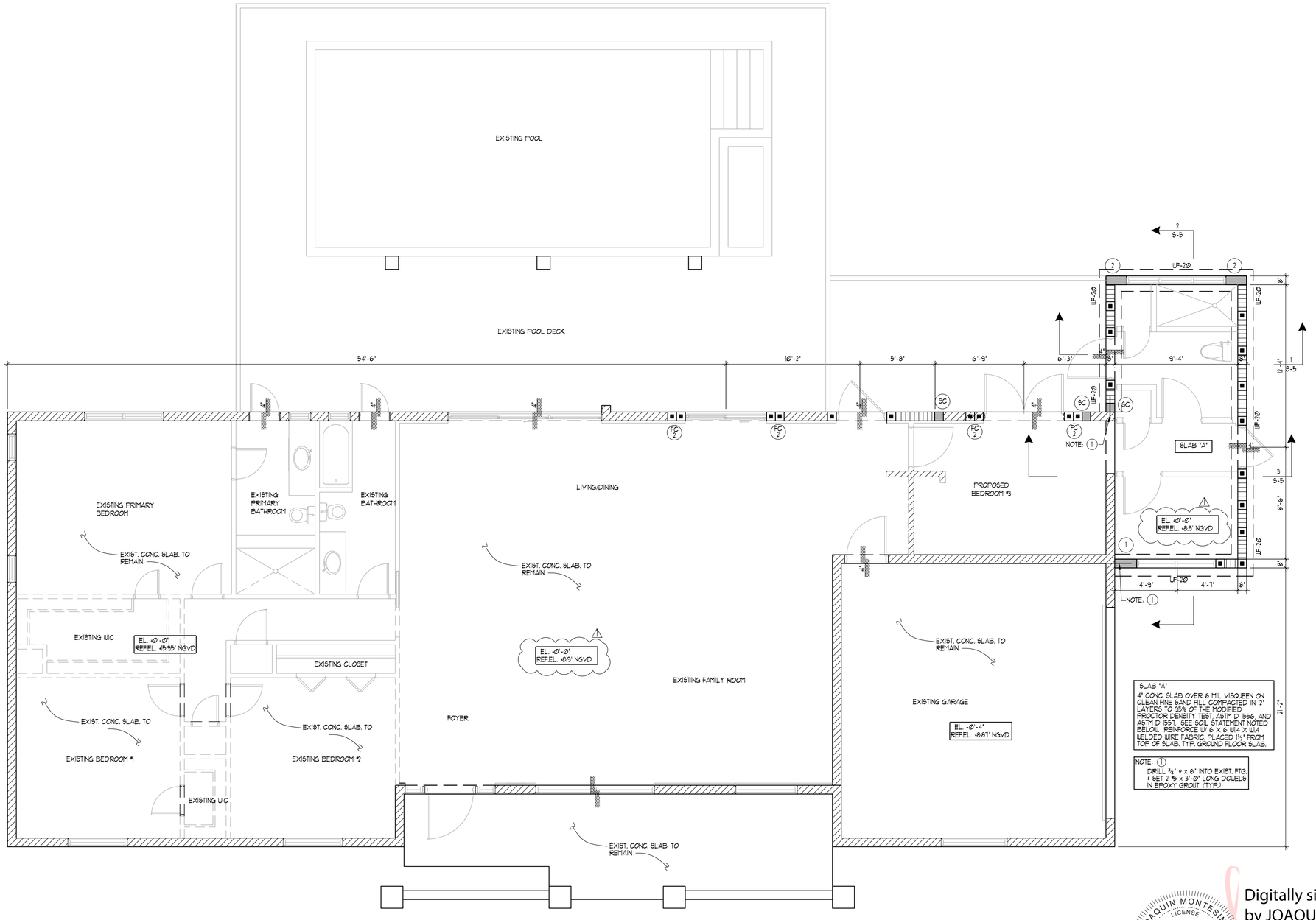

FOUNDATION/GROUND FLOOR PLAN

SCALE: 1/4"=1'-0"

NOTES:
1. TERMITE TREATMENT OF SOILS UNDER SLAB ON GRADE SHALL BE PERFORMED BEFORE POURING SLAB. TERMITE PROTECTION SHALL BE PROVIDED BY REGISTERED TERMICIDES OR OTHER APPROVED METHODS OF TERMITE PROTECTION LABELED AS A PREVENTIVE TREATMENT TO NEW CONSTRUCTION.

SOIL STATEMENT :

FOUNDATION SYSTEM CONSISTS OF SHALLOW SPREAD FOOTINGS BEARING ON SAND & ROCK.

ALLOWABLE SOIL BEARING PRESSURE USED IN THE DESIGN OF FOOTINGS IS 2000 PSF.

ENGINEER OF RECORD WILL SUBMIT A SIGNED AND SEALED LETTER TO THE BUILDING OFFICIAL ATTESTING THAT THE SITE HAS BEEN OBSERVED AND THE FOUNDATION CONDITIONS ARE SIMILAR TO THOSE UPON WHICH THE DESIGN IS BASED BEFORE CONSTRUCTION STARTED.

CONCRETE MASONRY NOTE:

ALL CONCRETE MASONRY UNITS (CMU) SHALL CONFORM TO ASTM C 90 'STANDARD SPECIFICATIONS FOR HOLLOW LOAD BEARING CONCRETE MASONRY UNITS, WITH A NET AREA COMPRESSIVE STRENGTH OF MASONRY OF 1900 PSI.

ALL MASONRY WALLS SHALL BE LOAD BEARING IN THIS LEVEL AND REINFORCED W/ ⌀ @ 48" U.N.O.

SLAB "A"

4" CONC. SLAB OVER 6 MIL VISQUEEN ON CLEAN FINE SAND FILL COMPACTED IN 12" LAYERS TO 95% OF THE MODIFIED PROCTOR DENSITY TEST, ASTM D 1556, AND ASTM D 1557. SEE SOIL STATEMENT NOTED BELOW. REINFORCE W/ 6 X 6 W4 X W4 WELDED WIRE FABRIC, PLACED 1½" FROM TOP OF SLAB, TYP. GROUND FLOOR SLAB.

NOTE: 1
DRILL ¾" ⌀ x 6" INTO EXIST. FTG. & SET 2 ⌀5 x 3'-0" LONG DOWELS IN EPOXY GROUT. (TYP.)

LEGEND:

- EXISTING 8" CMU WALL
- NEW 8" CMU WALL
- NEW CONC. COLUMN OR TIE COLUMN
- CONC. COLUMN FINISHED
- EBM — EXIST. CONCRETE BM.
- ETB — EXIST. TIE BM
- UF — NEW WALL FOOTING
- EUF — EXISTING WALL FOOTING

JOAQUIN MONTESINO LICENSE No. 69969 STATE OF FLORIDA PROFESSIONAL ENGINEER

Digitally signed by JOAQUIN MONTESINO
Date: 2024.01.31 11:06:14 -05'00'

WRITTEN DIMENSIONS ON THESE DRAWINGS SHALL HAVE PRECEDENCE OVER SCALE DIMENSIONS. CONTRACTORS SHALL VERIFY AND BE RESPONSIBLE FOR ALL DIMENSIONS AND CONDITIONS ON THE JOB AND THIS OFFICE MUST BE NOTIFIED OF ANY VARIATION FROM THE DIMENSIONS AND CONDITIONS SHOWN BY THESE DRAWINGS

G2 CONSULTING GROUP, INC.
JOAQUIN MONTESINO, P.E
CONSULTING ENGINEERS
9725 SW. 4 TERR. MIAMI FL. 33174
PHONE & FAX (786) 294-00-32
LIC. #69969, CA 25882

ARKO ARCHITECTURE, LLC
2490 CORAL WAY, SUITE 301
MIAMI, FL 33145
edgardo@thearkogroup.com
eduardo@thearkogroup.com
www.thearkogroup.com
p: 305.400.8133

ADDITION & RESTORATION FOR:

MAZZINI & MELINE RESIDENCE

10300 SW 70TH AVE,
MIAMI, FL 33156

DRAWN BY
DATE 04.03.23 | -- | CHECKED BY -- | PROJECT 22-84

REVISIONS
⚠ B.D.C 1-30-24

S-1

CONSTRUCTION DOCUMENTS

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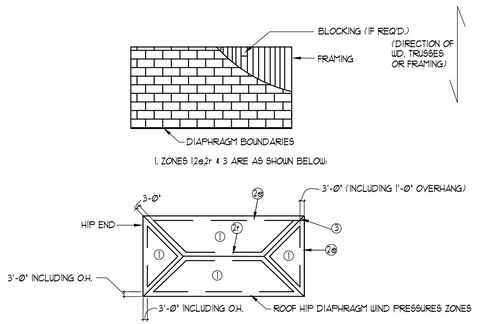
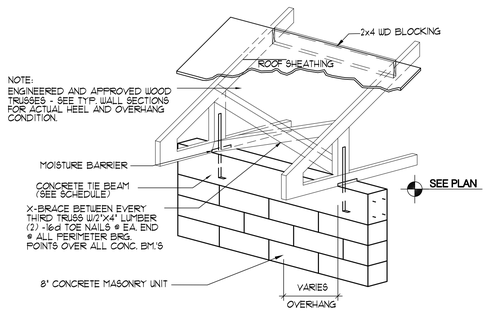




TYPICAL STRAPS & PANEL BLOCKING DTL.

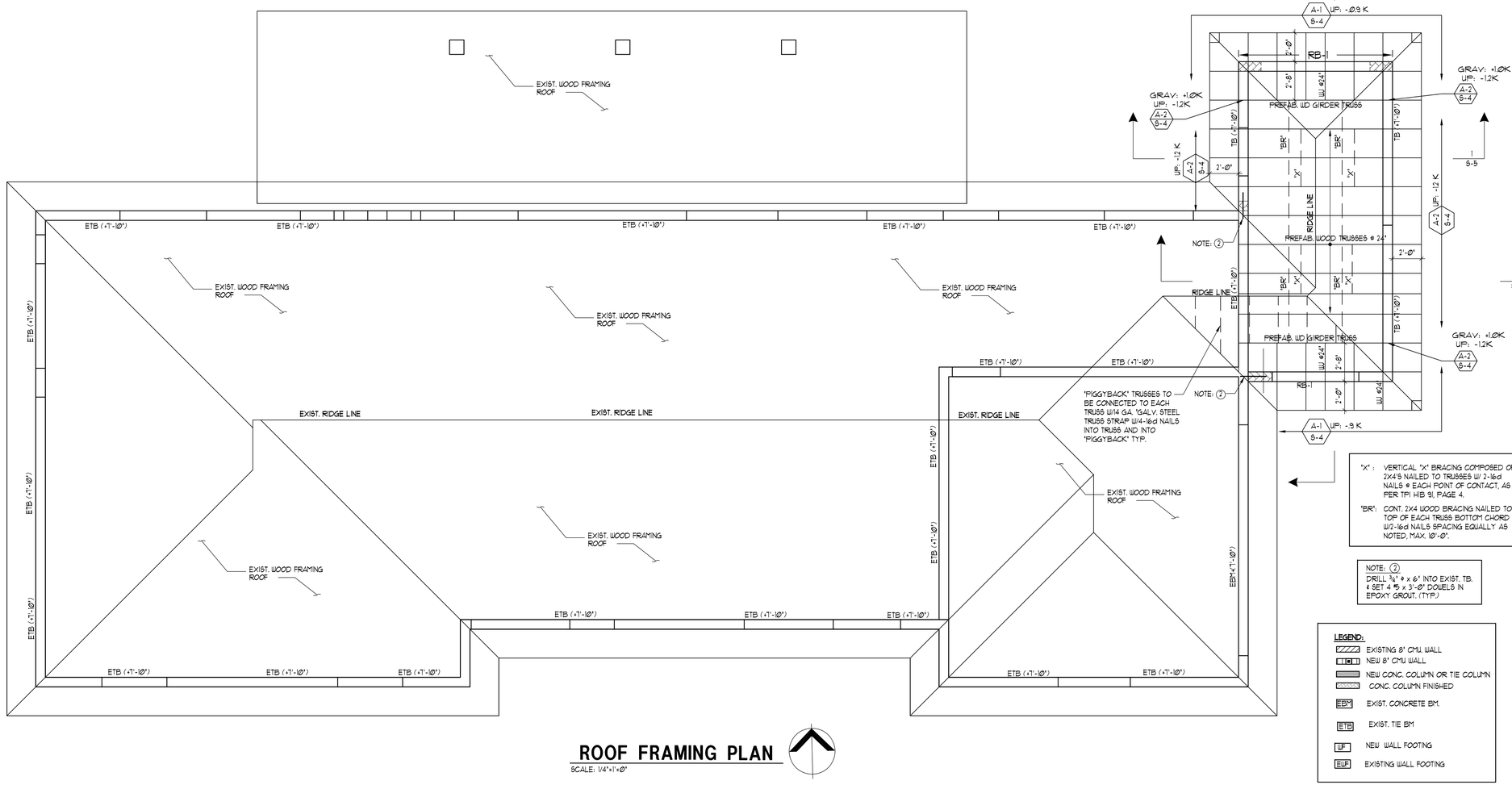
1 USE MULTIPLE STRAPS WHERE REQUIRED (SEE ROOF PLAN) NONE SCALE:

ROOF PREFAB. WOOD TRUSSES SUPERIMPOSED LOADS	
DEAD	3Ø P.S.F.
LIVE	3Ø P.S.F.
BASIC WIND PRESSURE, qh	56.6 P.S.F.
NET WIND UPLIFT, ZONE 1	-36.Ø P.S.F.
NET WIND UPLIFT, ZONE 2r WIDE EDGE STRIP 3FT.	-51.Ø P.S.F.
NET WIND UPLIFT, ZONE 2e,3 3FTx3FT WIDE EDGE STRIP	-45.6 P.S.F.

EXPOSURE 'C' Vu=115MPH h=15 FT 'a'=3FT
HIP ROOF 7°≤Ø≤27° Vu=115MPH h/B≤Ø.5
EFFECT. WIND AREA: 72 SF

ROOF PREFAB. WOOD JACK TRUSSES SUPERIMPOSED LOADS	
DEAD	3Ø P.S.F.
LIVE	3Ø P.S.F.
BASIC WIND PRESSURE, qh	56.6 P.S.F.
NET WIND UPLIFT, ZONE 1	-43.8 P.S.F.
NET WIND UPLIFT, ZONE 2r WIDE EDGE STRIP 3FT.	-72.Ø P.S.F.
NET WIND UPLIFT, ZONE 2e,3 3FTx3FT WIDE EDGE STRIP	-55.Ø P.S.F.

EXPOSURE 'C' Vu=115MPH h=15 FT 'a'=3FT
HIP ROOF 7°≤Ø≤27° Vu=115MPH h/B≤Ø.5
EFFECT. WIND AREA :21 SF



ROOF FRAMING PLAN

SCALE: 1/4"=1'-Ø"

'X' : VERTICAL 'X' BRACING COMPOSED OF 2X4'S NAILED TO TRUSSES W/ 2-16d NAILS @ EACH POINT OF CONTACT, AS PER TPI HIB '91, PAGE 4.

'BR': CONT. 2X4 WOOD BRACING NAILED TO TOP OF EACH TRUSS BOTTOM CHORD W/2-16d NAILS SPACING EQUALLY AS NOTED, MAX. 1Ø'-Ø".

NOTE: 2
DRILL ¾" ø x 6" INTO EXIST. TB. & SET 4 #5 x 3'-Ø" DOWELS IN EPOXY GROUT. (TYP.)

LEGEND:
- EXISTING 8" CMU. WALL
- NEW 8" CMU WALL
- NEW CONC. COLUMN OR TIE COLUMN
- CONC. COLUMN FINISHED
- EBM — EXIST. CONCRETE BM.
- ETB — EXIST. TIE BM
- NF — NEW WALL FOOTING
- EWF — EXISTING WALL FOOTING

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CONSTRUCTION DOCUMENTS

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CONCRETE BEAM SCHEDULE

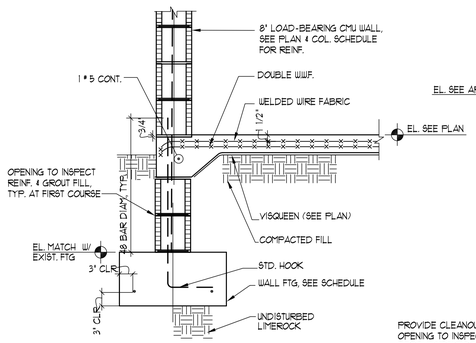
MARK	TOP ELEV.	SIZE W x H	REINFORCING "B"	"T"	"C"	"E"	"D"	"I" E.A. FACE	TIES OR STIRRUP NO.	TYPE	SPACING EA END	REMARKS
RB-1	+7'-10"	8" x 12"	2 # 5	2 # 5					# 3		@ 4½"	
TB	SEE PLAN	8" X 12" MIN.	2 # 5	2 # 5					# 3		4 @ 12", BALANCE 48"	PROVIDE 2 #5 X 2'-6" X 2'-6" CORNERS BARS, DROP OVER OPENING ADD #5 E.A FACE BOTT. WHEN DEPTH EXCEEDS 36" ADD #4 @ 12" "I" BARS EA FACE

COLUMN SCHEDULE

MARK	SIZE W+D	REINFORCEMENT VERTICAL OR BASE PLATE	REINFORCEMENT TIES OR CAP PLATE	REMARKS
(1)	8" x 20"	6 # 5	# 3 @ 6"	
(2)	8" x 18"	6 # 5	# 3 @ 6"	
(SC)	8" X 8"	2 # 5		STARTED COL
(FC)	# 6 @ 48" IN FILLED CELLS GROUTED (U.O.N.)			
(FC/2)	2 # 6 IN 2 GROUT-FILLED CELLS			

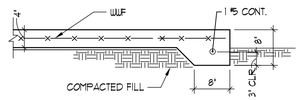
FOOTING SCHEDULE

MARK	SIZE LxWxTHICKNESS	REINFORCEMENT BOTTOM SHORT BARS	BOTTOM LONG BARS	TOP SHORT BARS	TOP LONG BARS	REMARKS
WF-20	CONT. (20"X12")		2 # 5	——	——	PROVIDE 2#5 X 2'-6"X2'-6" CORNERS BARS
F-60	6'-0"x6'-0"x14"	6 # 6	6 # 6			
TE.	CONT. 8 X 8	——	1 # 5	——	——	THICK EDGE



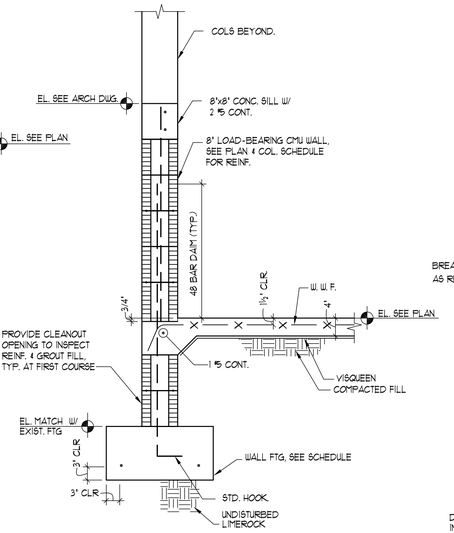
TYPICAL CMU WALL-FOOTING DETAIL (1)

3/4" = 1'-0"



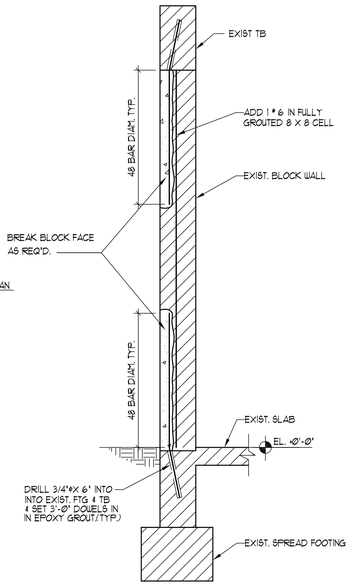
SLAB EDGE DETAIL (TE)

3/4" = 1'-0"



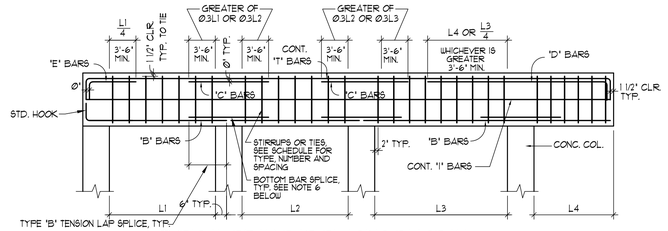
TYPICAL CMU WALL-FOOTING DETAIL (2)

3/4" = 1'-0"



TYPICAL DETAIL FILL CELL COLUMN ADDITION

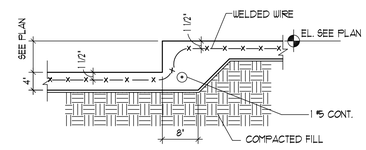
3/4" = 1'-0"



TYPICAL BEAM BAR PLACING DIAGRAM

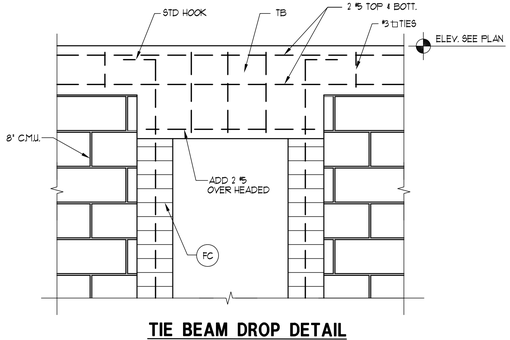
NOTES:

1. PLACE A MAXIMUM OF 2 BARS PER LAYER IN 8"-WIDE BEAMS.
2. SPLICE TOP BARS AT MID SPAN W/ CLASS 'B' TENSION LAP SPLICES.
3. SPLICE 'I' BARS AT SUPPORTS W/ CLASS 'B' TENSION LAP SPLICES.
4. PLACE 'C' BARS OVER RIGHT-HAND SUPPORT, UNLESS NOTED IN REMARKS.
5. 'I' BARS AS SCHEDULED SHALL BE PLACED EACH SIDE OF BEAM.
6. PROVIDE 1/4 OF THE AREA OF THE BOTTOM REINFORCING OF THE ADJACENT SPAN WITH THE HIGHEST AREA OF BOTTOM REINFORCING, BUT NOT LESS THAN TWO BARS, BAR SIZE NO LESS THAN A #5 BAR. WHERE ADJACENT BEAMS ARE DIFFERENT IN DEPTH PLACE THE SPLICE BAR AT THE LEVEL OF THE BOTTOM BARS OF THE SHALLOWEST BEAM.



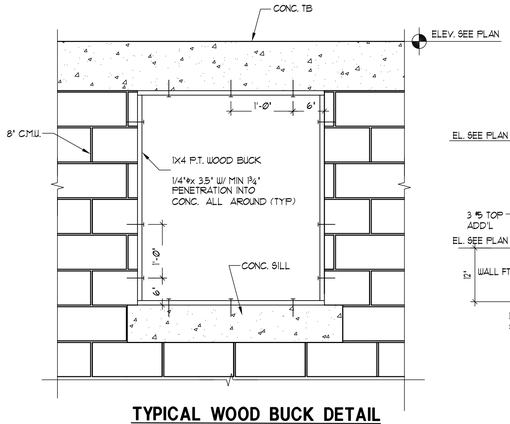
TYPICAL SLAB ON GRADE ELEVATION CHANGE

3/4" = 1'-0"



TIE BEAM DROP DETAIL

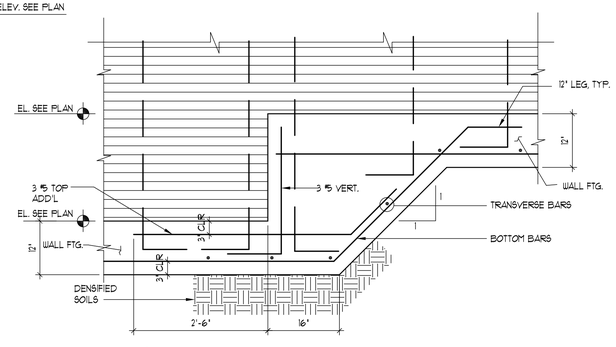
3/4" = 1'-0"



TYPICAL WOOD BUCK DETAIL

3/4" = 1'-0"

NOTE: FINAL DESIGN OF THIS DETAIL SHALL BE PERFOMED UPON SUMMITAL FINAL SIGNED & SEALED SHOP DWGS FOR WINDOWS & DOORS



TYPICAL STEPPED FOOTING DETAIL

3/4"=1'-0"

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2490 CORAL WAY, SUITE 301
MIAMI, FL 33145
edgardo@thearkogroup.com
eduardo@thearkogroup.com
www.thearkogroup.com
p: 305.400.8133

ADDITION & RESTORATION FOR:

MAZZINI & MELINE RESIDENCE

10300 SW 70TH AVE, MIAMI, FL 33156

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REVISIONS

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CONSTRUCTION DOCUMENTS

JOAQUIN MONTESINO LICENSE No. 69969 STATE OF FLORIDA PROFESSIONAL ENGINEER

Digitally signed by JOAQUIN MONTESINO Date: 2024.01.31 11:07:08 -05'00'

WRITTEN DIMENSIONS ON THESE DRAWINGS SHALL HAVE PRECEDENCE OVER SCALE DIMENSIONS. CONTRACTORS SHALL VERIFY AND BE RESPONSIBLE FOR ALL DIMENSIONS AND CONDITIONS ON THE JOB AND THIS OFFICE MUST BE NOTIFIED OF ANY VARIATION FROM THE DIMENSIONS AND CONDITIONS SHOWN BY THESE DRAWINGS

G2 CONSULTING GROUP, INC.
JOAQUIN MONTESINO, P.E
CONSULTING ENGINEERS
9725 SW. 4 TERR. MIAMI FL. 33174
PHONE & FAX (786) 294-00-32
LIC. #69969, CA 25982

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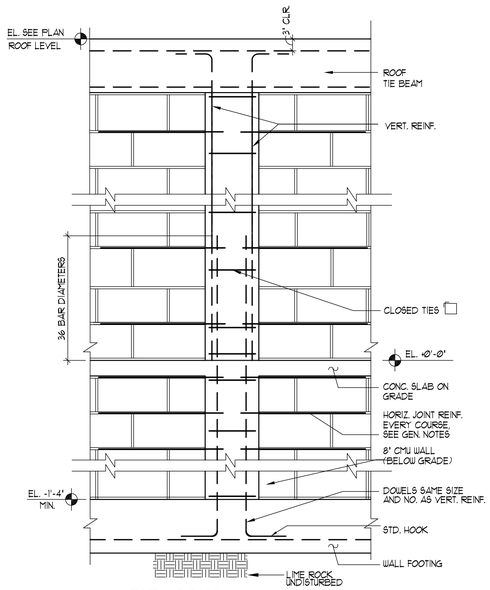
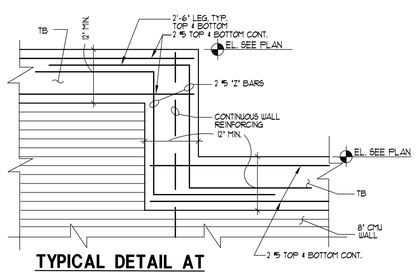


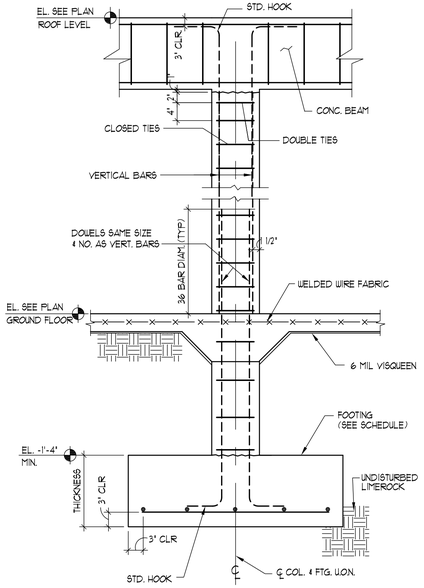
TYP. CONC. TIE COL.- WALL FOOTING DETAIL

3/4" = 1'-Ø"



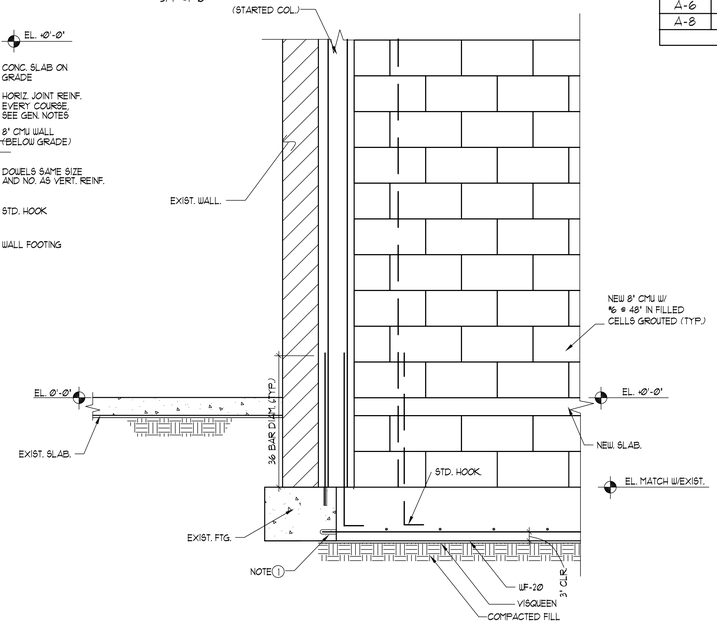
TYPICAL DETAIL AT TIE BEAM ELEVATION CHANGE

3/4" =1'-Ø"



TYPICAL COLUMN-FOOTING DETAIL

N.T.S.



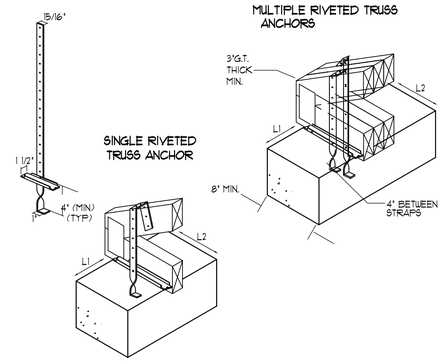
WALL FTG INTERSECTION DETAIL

3/4" = 1'-Ø"

RIVETED TRUSS ANCHOR SCHEDULE
CONCRETE TIE-BEAM TO TRUSS

A-X MARK	NUMBER OF STRAPS	SIZE	ASSEMBLY PRODUCT CODE (Nu-Vue)	PRODUCT CODE (Nu-Vue)	GAUGE	DIMENSIONS		NUMBER OF 10d COMM NAILS	# OF PLY	ALLOWABLE LOADS			
						OUT OF CONCRETE	OVERHALL LENGTH			LATERAL L-2	LATERAL L-1	UPLIFT 133% 10d COMM.	NOA #
A-1	1	16	NVSTA 17		14	16	20	9	1	1430 #	950 #	1427 #	18-0312.07.
A-2	1	16	NVSTA 17H	NVTH 20	14	16	20	9	1	1430 #	950 #	1783 #	17-0802.07
A-3	1	16	NVHTA 17H	NVTH 20	14	16	20	12	1	1731 #	1181	2338 #	17-0802.07
A-4	1	20	NVHTA 20H	NVTH 24	14	20	24	14	1	1812 #	1312 #	2598 #	17-0802.07
A-5	1	22	NVHTA 22H	NVTH 27	14	22	27	18	1	2175 #	1575 #	3117 #	17-0802.07
A-6	1	20	NV358 -20	NVTH 24	14	20	24	16	2	2758 #	2942 #	3377 #	17-0802.07
A-8	1	20	NV458 -20	NVTH 24	14	20	24	16	3	3117 #	4175 #	3377 #	17-0802.07

-USE ALL FASTENERS IN SCHEDULE TO ACHIEVE VALUES INDICATED MINIMUM EDGE DISTANCE IS 2".
-ALLOW 4" EMBEDMENT IN CONCRETE.
-DESIGN LOADS BASED ON USE OF SOUTHERN YELLOW PINE, SG=Ø55
-PROVIDE 7-10d COMM. NAILS @ STEEL SEAT OF STRAPS FOR 1 PLY TRUSS
-PROVIDE 8-10d COMM. NAILS @ STEEL SEAT OF STRAPS FOR 2 & 3 PLY TRUSSES



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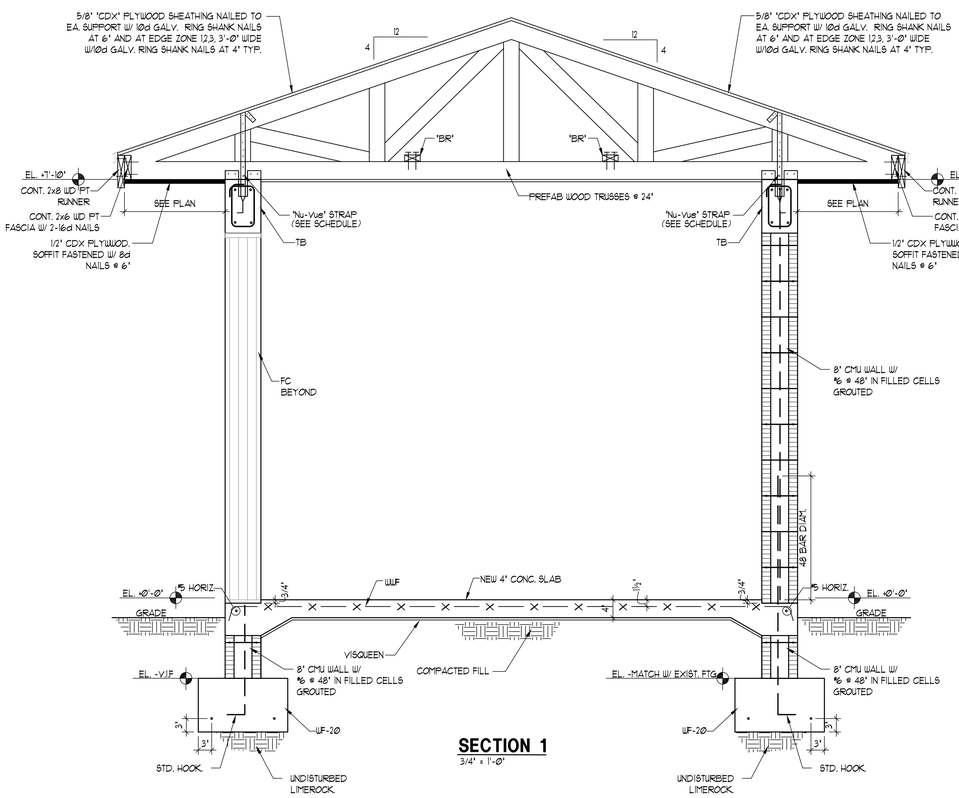
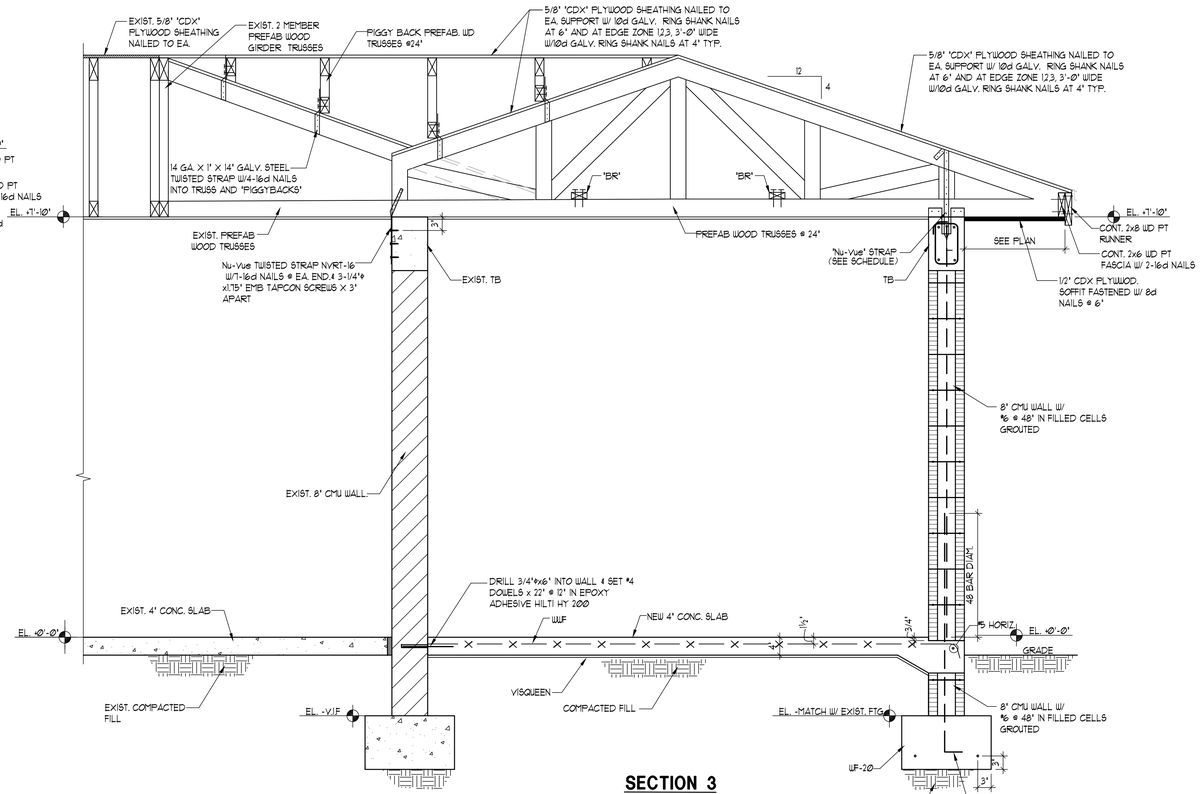
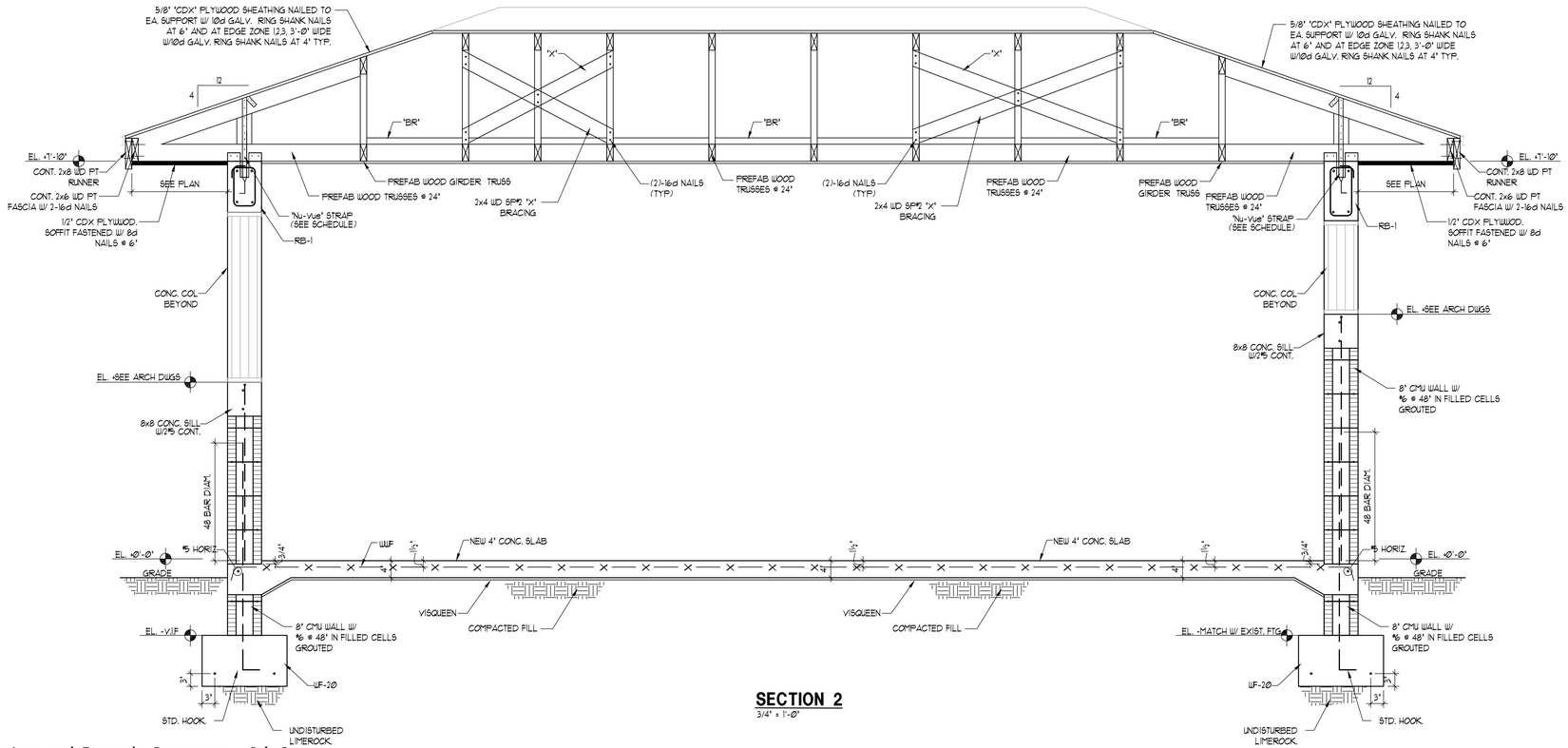


SECTION 1
3/4" = 1'-0"



SECTION 3
3/4" = 1'-0"



SECTION 2
3/4" = 1'-0"

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CONSTRUCTION DOCUMENTS

JOAQUIN MONTESINO LICENSE No. 69969 STATE OF FLORIDA PROFESSIONAL ENGINEER

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STRUCTURAL NOTES

1. FOUNDATION:

A. FOUNDATION SYSTEM CONSISTS OF SHALLOW SPREAD FOOTINGS DESIGNED FOR AN ALLOWABLE SOIL BEARING PRESSURE OF 2000 PSF. FOOTINGS SHALL BEAR ON UNDISTURBED LIMEROCK.
B. PROVIDE ANY BRACING OR SHORING AS REQUIRED IN ORDER TO PREVENT SETTLEMENT OR DISPLACEMENT OF ADJACENT EXISTING FOUNDATIONS AND /OR STRUCTURES.
C. ALL FOUNDATION EXCAVATIONS SHALL BE KEPT DRY. FOUNDATION CONCRETE SHALL BE POURED ONLY UNTIL EXCAVATIONS ARE COMPLETELY DRY. TAKE EVERY PRECAUTION DURING DEWATERING OPERATIONS SO THAT EXISTING ADJACENT STRUCTURES, UTILITIES, PIPING, ETC. ARE NOT DAMAGED.
D. CENTERS OF COLUMNS SHALL COINCIDE WITH CENTERS OF FOOTINGS, UNLESS OTHERWISE NOTED IN FOUNDATION PLANS AND FOOTING DETAILS.
E. TOP OF FOUNDATION ELEVATIONS SHOWN IN PLAN ARE BASED ON THE BEST AVAILABLE INFORMATION GATHERED FROM SOIL BORING LOADS SOIL CONDITIONS ENCOUNTERED DURING FOUNDATION EXCAVATIONS MIGHT DICTATE TOP OF FOUNDATION ELEVATION TO BE LOWERED IN ORDER TO EMBED FOUNDATIONS A MINIMUM OF 1 INCHES INTO THE EXISTING LIMEROCK BEARING STRATA
F. FOUNDATIONS MAY BE EARTH-FORMED IF SOIL CONDITIONS PERMIT. EXCAVATE TO EXACT FOUNDATION SIZES.

2. GENERAL:

A. ALL MATERIALS AND CONSTRUCTION SHALL COMPLY WITH THE FLORIDA BUILDING CODE, 2020 HVHZ, ASCE 7-16 MINIMUM DESIGN LOADS FOR BUILDINGS. THE ACI 318-14 BUILDING CODE, AND ALL APPLICABLE FEDERAL, STATE AND LOCAL ORDINANCES.
B. THESE DRAWINGS AND SPECIFICATIONS COMPLY, TO THE BEST OF MY KNOWLEDGE WITH THE FLORIDA BUILDING CODE, 2020 HVHZ
C. THE CONTRACTOR SHALL VERIFY ALL CONDITIONS OF EXISTING STRUCTURES AFFECTING NEW CONSTRUCTION BEFORE COMMENCING ANY WORK. ANY VARIATIONS IN ACTUAL FIELD CONDITIONS/DIMENSIONS FROM THOSE SHOWN IN THE CONTRACT DRAWINGS SHALL BE REPORTED TO THE ARCHITECT/ENGINEER FOR DETERMINING THE NEED OF REDESIGN PRIOR TO CONTRACTOR'S SUBMITTAL OF SHOP WORKING DRAWINGS FOR REVIEW.
D. THESE DRAWINGS SHALL BE WORKED TOGETHER WITH ARCHITECTURAL, AIR CONDITIONING, MECHANICAL AND ELECTRICAL DRAWINGS TO LOCATE DEPRESSED SLABS, SLOPES, DRAINS, OUTLETS, RECESSES, OPENINGS, REGLETS, BOLT SETTINGS, SLEEVES, ETC. DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF ARCHITECT/ ENGINEER BEFORE PROCEEDING WITH THE WORK. ANY DISCREPANCIES, OMISSIONS OR VARIATIONS FOUND ON THE DRAWINGS OR IN THE SPECIFICATIONS DISCOVERED DURING THE BIDDING PHASE SHALL BE IMMEDIATELY COMMUNICATED TO ARCHITECT/ ENGINEER.
E. WHEN PERFORMING WORK BELOW GRADE, CARE SHALL BE TAKEN TO AVOID DAMAGING ANY EXISTING UTILITIES. ALL UNKNOWN UTILITIES DISCOVERED DURING CONSTRUCTION SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT/ENGINEER. ANY DAMAGE TO THE EXISTING UTILITIES SHALL BE REPORTED TO ALL AFFECTED PARTIES, INCLUDING THE ARCHITECT/ENGINEER.
F. GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR UPDATING HIS CONSTRUCTION DOCUMENTS WITH THE REVISED DRAWINGS AND SPECIFICATIONS, FIELD ORDERS, CHANGE ORDERS AND CLARIFICATION SKETCHES ISSUED DURING THE COURSE OF CONSTRUCTION.
G. TYPICAL DETAILS AND NOTES ON THESE DRAWINGS SHALL APPLY UNLESS SPECIFICALLY NOTED OTHERWISE. CONSTRUCTION DETAILS AND SECTIONS NOT COMPLETELY SHOWN OR NOTED SHALL BE SIMILAR TO DETAILS AND SECTIONS SHOWN OR NOTED FOR SIMILAR CONDITIONS.
H. THE GENERAL CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR ALL EXCAVATION PROCEDURES INCLUDING LAGGING, SHORING, AND PROTECTION OF ADJACENT PROPERTY, STRUCTURES, STREETS AND UTILITIES IN ACCORDANCE WITH THE LOCAL BUILDING DEPARTMENT.
I. BACKFILL AROUND THE EXTERIOR PERIMETER OF WALLS SHALL NOT BE PLACED UNTIL AFTER THE WALLS ARE SUPPORTED BY THE COMPLETION OF INTERIOR FLOOR SYSTEMS. DO NOT PROCEED WITH BACKFILL UNTIL (7) DAYS AS A MINIMUM AFTER THE COMPLETION OF INTERIOR FLOOR SYSTEM UNLESS WALLS ARE ADEQUATELY BRACED. BACKFILL SHALL NOT BE PLACED UNTIL AFTER COMPLETION AND INSPECTION OF WATERPROOFING WHERE WATERPROOFING OCCUR.
J. GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR THE DISPOSAL OF ALL ACCUMULATED WATER FROM EXCAVATIONS AND DEWATERING OPERATIONS IN SUCH A WAY AS TO NOT CAUSE INCONVENIENCE TO THE WORK AND DAMAGE TO THE STRUCTURAL ELEMENTS.
K. STRUCTURAL NOTES SHALL BE USED IN CONJUNCTION WITH THE SPECIFICATIONS. IF A CONFLICT EXISTS, THE MORE STRINGENT GOVERNS.
L. GENERAL CONTRACTOR SHALL PROTECT EXISTING FACILITIES, STRUCTURES AND UTILITY LINES AND CONDUITS FROM DAMAGE. GENERAL CONTRACTOR IS SOLELY RESPONSIBLE FOR DAMAGE OR INJURY DUE TO HIS ACT OR NEGLECT.
M. GENERAL CONTRACTOR IS SOLELY RESPONSIBLE FOR JOB SAFETY, MEANS AND METHODS OF CONSTRUCTION AND CONSTRUCTION PROCEDURES.
N. DO NOT SCALE THESE DRAWINGS, USE DIMENSIONS NOTED. IF DIMENSIONS ARE MISSING CONSULT ARCHITECT/ENGINEER FOR ADVISE.

3. SHOP DRAWINGS SUBMITTALS:

A. SUBMITTALS TO STRUCTURAL ENGINEER OF RECORD:
   I. CONCRETE TEST REPORTS FOR CAST-IN-PLACE CONCRETE AS PER ACI 301-11.
   II. REINFORCING STEEL SHOP DRAWINGS.
   III. STRUCTURAL STEEL SHOP DRAWINGS AND ERECTION DRAWINGS.

B. SHOP DRAWINGS REQUIRING ENGINEERING BY A SPECIALTY ENGINEER SHALL COMPLY WITH THE FOLLOWING:
   I. THE SPECIALTY ENGINEER SHALL BE A FLORIDA REGISTERED PROFESSIONAL ENGINEER.
   II. THE SPECIALTY ENGINEER SHALL HAVE AT LEAST FIVE YEARS OF SOLID PROFESSIONAL DESIGN EXPERIENCE IN THE DESIGN AND DETAILING OF THE STRUCTURAL COMPONENT AND/OR STRUCTURAL SYSTEM BEING SUBMITTED FOR APPROVAL.
   III. THE SPECIALTY ENGINEER SHALL BE AN EMPLOYEE OR OFFICER OF A FABRICATOR, AN EMPLOYEE OR OFFICER OF ANOTHER COMPANY SUPPLYING COMPONENTS TO THE FABRICATOR
C. ALL SHOP DRAWINGS ARE AN AID FOR FIELD PLACEMENT AND ARE SUPERSEDED BY THE STRUCTURAL DRAWINGS. IT SHALL BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR TO MAKE CERTAIN THAT ALL CONSTRUCTION IS IN FULL AGREEMENT WITH THE LATEST STRUCTURAL DRAWINGS.
D. THE CONTRACTOR SHALL SUPPLY THE ENGINEER THREE COPIES OF SHOP DRAWINGS A MINIMUM OF ONE WEEK PRIOR TO PLACEMENT. THE REVIEW OF SHOP DRAWINGS BY THE ENGINEER IS ONLY FOR GENERAL COMPLIANCE WITH THE STRUCTURAL DRAWINGS AND SPECIFICATIONS. THE REVIEW DOES NOT GUARANTEE IN ANY WAY THAT THE SHOP DRAWINGS ARE CORRECT NOR DOES IT INFER THAT THEY SUPERSEDE THE STRUCTURAL DRAWINGS. REVIEW WILL NOT INCLUDE CHECK OF DIMENSIONS, LENGTHS OR QUANTITIES.
E. THESE STRUCTURAL DRAWINGS SHALL NOT BE USED TO PRODUCE SHOP DRAWINGS WITHOUT PRIOR EXPRESSED WRITTEN APPROVAL FROM THE STRUCTURE ENGINEER OF RECORD.
F. SHOP DRAWINGS RE-SUBMITTED FOR APPROVAL SHALL BE CLEARLY CLOUDED AND NOTED. RE-REVIEW SHALL BE LIMITED TO THOSE ITEMS WHICH CAUSED THE RE-SUBMITTAL.

4. CONCRETE:

A. ALL CONCRETE WORK SHALL CONFORM TO ALL REQUIREMENTS OF ACI 301-11 'SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS.'
B. CONCRETE COMPRESSIVE STRENGTH AT 28 DAYS SHALL BE AS FOLLOWS:

FOOTINGS	3,000 PSI
SLABS ON GRADE	3,000 PSI
ROOF TIE BEAMS AND BEAMS	3,000 PSI
COLUMNS AND TIE COLUMNS	3,000 PSI
ALL OTHER CONCRETE	3,000 PSI

C. FORMWORK SHALL COMPLY WITH ACI 347-04, ' RECOMMENDED PRACTICE FOR CONCRETE FORMWORK.'
D. MIX DESIGNS SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PRIOR TO COMMENCEMENT OF ANY CONCRETE WORK. SUBMIT STATISTICAL DATA FOR EACH CLASS OF CONCRETE.
E. NO WATER SHALL BE ADDED TO THE CONCRETE AT THE JOB SITE.
F. THE OWNER SHALL CONTRACT AN INDEPENDENT TESTING LABORATORY TO PERFORM CONCRETE CYLINDER TESTS AS FOLLOWS. SIX CYLINDER TESTS FOR ANY 50 CUBIC YARDS OF CONCRETE POURED, OR FRACTION THEREOF FOR EACH CLASS OF CONCRETE POURED EACH DAY. ONE CYLINDER SHALL BE TESTED AT 3 DAYS AND 7 DAYS, THREE AT 28 DAYS, AND ONE RESERVED TO BE TESTED AT 51 DAYS IF REQUIRED. FOLLOW ASTM STANDARDS FOR SAMPLING AND TESTING. ONE SLUMP TEST SHALL BE TAKEN FOR EACH SET OF TEST CYLINDERS CAST. SLUMP TEST SHALL CONFORM WITH ASTM C 143. NO CONCRETE TEST WILL BE ACCEPTED IF CONCRETE IS TAMPERED WITH IN ANY WAY AFTER SAID TEST IS PERFORMED. REPEAT TEST IF WATER IS ADDED AFTER INITIAL SAMPLING.
G. TRANSPORTING, PLACING, CURING AND DEPOSITING OF CONCRETE SHALL COMPLY WITH ACI 301-08, 'SPECIFICATIONS FOR STRUCTURAL CONCRETE.
H. CONSTRUCTION JOINTS IN STRUCTURAL SLABS AND BEAMS SHALL BE LOCATED AT 1/3 OF THE SPAN WITH REINFORCING CONTINUOUS ACROSS THE JOINT. PROVIDE A CONTINUOUS 2 X 4 SHEAR KEY AT SLABS. AT BEAMS PROVIDE A 1 1/2" DEEP SHEAR KEY WITH A WIDTH 8" SMALLER THAN THE BEAM WIDTH AND A DEPTH 8" SMALLER THAN THE BEAM DEPTH. LOCATIONS SHALL BE APPROVED BY STRUCTURAL ENGINEER OF RECORD BEFORE POUR.
I. MAXIMUM WATER/CEMENT RATIO FOR CONCRETE CONTAINING A SUPERPLASTICIZING ADMIXTURE SHALL BE 0.40. SLUMP AFTER ADDITION OF SUPERPLASTICIZER SHALL BE 8" +/- 1"
J. MINIMUM CONCRETE COVER FOR REINFORCEMENT:
   I. CONCRETE CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH..... 3"
   II. CONCRETE EXPOSED TO EARTH OR WEATHER
      #7 BARS AND LARGER..... 2"
      #6 BARS AND SMALLER..... 1 1/2"
   III. CONCRETE NOT EXPOSED TO WEATHER OR IN CONTACT WH EARTH:
      SLABS AND WALLS..... 3/4",
      BEAMS AND COLUMNS..... 1/2"
      SHEAR WALLS..... 1 1/2"

5. REINFORCING STEEL:

A. REINFORCING STEEL SHALL BE DETAILED AND PLACED IN ACCORDANCE WITH ACI 318-14.
B. REINFORCING STEEL SHALL BE DEFORMED BARS CONFORMING TO ASTM A 615-09a, (SI) GRADE 60.
C. ALL WELDED WIRE FABRIC SHALL CONFORM TO ASTM A 185-06.
D. REINFORCING SHALL BE HELD SECURELY IN POSITION WITH STANDARD ACCESSORIES DURING PLACING OF CONCRETE, IN ACCORDANCE WITH CRSI 'MANUAL OF STANDARD PRACTICE', 1208.
E. ALL TOP REINFORCING SHALL TERMINATE WITH STANDARD HOOKS AT DISCONTINUOUS EDGES OR ENDS.
F. ALL BOTTOM BARS SHALL BEAR 1" MINIMUM OVER SUPPORTS, U.O.N.
G. ALL REINFORCING BARS MARKED CONTINUOUS SHALL BE LAPPED WITH CLASS 'B' TENSION LAP SPLICES AT CORNERS UNLESS OTHERWISE NOTED. LAP CONTINUOUS TOP BARS AT CENTER BETWEEN SUPPORTS AS REQUIRED WITH CLASS 'B' TENSION LAP SPLICES. TERMINATE CONTINUOUS BARS AT NON-CONTINUOUS ENDS WITH STANDARD HOOKS, U.O.N.
H. SLAB TOP BARS ARE SHOWN IN PLAN AS SOLID LINES. SLAB BOTTOM BARS ARE SHOWN IN PLAN AS DASHED LINES.
I. IN BEAMS WITH MULTIPLE LAYERS OF REINFORCING AT TOP OR BOTTOM SEPARATE LAYERS WITH #8 SPACER BARS FOR BAR SIZES UP TO #8 AND SAME SPACER BAR AS BAR SIZE FOR #9 BARS AND LARGER.
J. IN BEAMS 8 INCHES WIDE PROVIDE A MAXIMUM OF 2 BARS PER LAYER OF REINFORCING.
K. BEAMS INTERMEDIATE BARS SHALL BE HOOKED AT DISCONTINUOUS ENDS AND SPLICED AT SUPPORTS WITH CLASS 'B' TENSION LAP SPLICES.
L. PROVIDE A 10 TON REINFORCING STEEL ALLOWANCE TO BE USED BY STRUCTURAL ENGINEER OF RECORD AT HIS OWN DISCRETION. BALANCE OF THIS ALLOWANCE NOT USED DURING CONSTRUCTION SHALL BE CREDITED TO THE OWNER AT THE SAME COST PER TON AS ORIGINALLY CHARGED.
M. ALL TOP AND BOTTOM AND ACCESSORY REINFORCING USED IN BALCONIES AND TERRACES SHALL BE GALVANIZED.
N. FOR CLASS 'B' TENSION LAP SPLICES FOLLOW CRSI 'DESIGN HANDBOOK, 2008', CHAPTER 9.

7. CONCRETE MASONRY WORK:

A. CONCRETE MASONRY WALLS NOTED AS LOAD BEARING WALLS, SHALL BE IN PLACE BEFORE THE SLABS AND BEAMS SUPPORTED BY THEM ARE POURED AS WELL AS THE CONCRETE TIE COLUMNS FRAMING THEM.
B. CONCRETE MASONRY WALLS NOTED AS NON-LOAD BEARING WALLS SHALL BE PLACED AFTER CONCRETE FRAME SUPPORTING THEM ARE 28 DAYS OLD AND ALL SHORING AND RE-SHORING IS COMPLETELY REMOVED FROM BELOW AND ABOVE. HOLD CLEAR OF CONCRETE ABOVE UNTIL ANTICIPATED DEAD LOAD DEFLECTION OF CONCRETE SLAB OR BEAM ABOVE HAS OCCURRED. FILL JOINT WITH MORTAR AND SEAL AS REQUIRED BY ARCHITECTURAL DRAWINGS TO PREVENT WATER INTRUSION.
C. ALL CONCRETE MASONRY UNITS (CMU) SHALL CONFORM TO ASTM C 90, 'STANDARD SPECIFICATIONS FOR HOLLOW LOAD BEARING CONCRETE MASONRY UNITS', WITH A NET AREA COMPRESSIVE STRENGTH OF CONCRETE MASONRY UNITS OF 1900 PSI.
D. MORTAR SHALL CONFORM TO ASTM C 270, TYPE 'M', WITH A MINIMUM AVERAGE STRENGTH OF 2500 PSI.
E. CONCRETE MASONRY STRENGTH, f'm, SHALL BE A MINIMUM OF 1500 PSI.
F. VERTICAL REINFORCING IN CMU CELLS SHALL BE SPLICED WITH 48 BAR DIAMETER LAP SPLICES. PROVIDE CLEAN OUT HOLES AT BASE OF FILLED CELLS FOR LAP INSPECTION AND VERIFYING THAT THE CELLS HAVE BEEN FILLED SOLID WITH GROUT.
G. FILLED CELLS SHALL BE FILLED WITH 3000 PSI GROUT AS PER TMS402/602-16 FILLING OF CELLS SHALL BE DONE IN FOUR FOOT LIFTS WITH A MAXIMUM POUR OF 12 FEET. USE MECHANICAL VIBRATION TO ACHIEVE GROUT-FILLED SOLID CELLS. GROUT SHALL CONFORM TO ASTM C 471. SLUMP SHALL BE BETWEEN 8" AND 11".
H. ALL CMU WALLS SHALL BE HORIZONTALLY REINFORCED WITH STANDARD NO. 9 LADDER-TYPE GALVANIZED STEEL REINFORCING EVERY SECOND COURSE. EXTEND REINFORCING A MINIMUM OF 4 INCHES INTO TIE COLUMNS.
I. PROVIDE GALVANIZED STEEL DOVETAIL ANCHORS EVERY OTHER COURSE CONNECTING NON LOAD-BEARING WALLS TO CONCRETE COLUMNS AND SHEAR WALLS INTO THE MORTAR BED OF SOLID-GROUTED HOLLOW UNITS.
J. REINFORCING BARS IN GROUTED CELLS SHALL BE SECURED IN PLACE AT BASE OF BAR AND ABOVE BEFORE GROUTING OF CELL WITH GALVANIZED BAR POSITIONERS.
K. REINFORCING BARS BE SHALL CENTERED IN THE BLOCK CELL. DOUELS NOT LINED UP WITH THE BLOCK CELL SHALL NOT BE SLOPED MORE THAN 1 IN 7. HORIZONTAL DISTANCE BETWEEN DOUEL AND REINFORCING BAR MAY BE UP TO 8'/ONE BLOCK CELL APART.)
L. ANCHOR BOLTS SHALL BE EMBEDDED IN WALLS IN GROUTED CELLS.
M. GROUTED CELLS WHERE WEDGE ANCHORS ARE TO BE INSTALLED SHALL HAVE THE BLOCK SHELL REMOVED SO THAT WEDGE ANCHOR IS EMBEDDED IN SOLID CONCRETE GROUT. FILL ONE COURSE BELOW AND ABOVE ANCHOR LOCATION.
N. ALL CONCRETE MASONRY WORK HAS BEEN DESIGNED AND DETAILED ASSUMING CONCRETE MASONRY WORK WILL BE COMPLETELY INSPECTED BY SPECIAL OR THRESHOLD INSPECTORS.
O. REINFORCING BARS SHALL BE LOCATED AS INDICATED IN PLAN OR CALLED OUT BY NOTES IN PLANS. WHERE PLANS AND NOTES DISAGREE CONSULT ENGINEER OF RECORD FOR CLARIFICATION.
P. LAY MASONRY UNITS IN RUNNING BOND.
Q. PROVIDE 30 LBS. FELT PAPER TO ISOLATE WOOD FROM MASONRY WALLS. USE PRESSURE TREATED WOOD FOR LEDGERS IN CONTACT WITH MASONRY WALL.

7. STRUCTURAL STEEL:

A. STRUCTURAL STEEL SHALL COMPLY WITH AISC 'SPECIFICATIONS FOR DESIGN, FABRICATION AND ERECTION FOR STRUCTURAL STEEL BUILDINGS,' AISC 360-16.
B. STRUCTURAL STEEL WIDE FLANGE SHAPES AND PLATES SHALL CONFORM TO ASTM A 572, Fy 50 KSI, EXCEPT OTHER SHAPES WHICH SHALL CONFORM TO ASTM A 36, Fy 36 KSI.
C. STRUCTURAL STEEL TUBES SHALL CONFORM TO ASTM A500, GRADE B, Fy=46 KSI.
D. STRUCTURAL STEEL PIPES SHALL CONFORM TO ASTM A53, TYPE S, GRADE B, Fy= 35 KSI.
E. ANCHOR BOLTS SHALL CONFORM TO EITHER ASTM A 306 OR ASTM A 36.
F. FRAMING BOLTS SHALL CONFORM TO ASTM 325, WITH HARDENED WASHERS AND HEX NUTS.
G. ALL EXTERIOR STEEL SHAPES, PLATES, NUTS, BOLTS, WASHERS SHALL BE HOT-DIPPED GALVANIZED.
H. SPLICING OF STEEL MEMBERS IS NOT ALLOWED, UNLESS SPECIFIED IN STRUCTURAL DRAWINGS OR APPROVED BY ENGINEER OF RECORD.
I. ALL BOLTS, NUTS AND WASHERS SHALL BE NEW, RUST-FREE, CLEAN AND WELL LUBRICATED.
J. BOLT HOLES THROUGH STEEL MEMBERS SHALL BE SHOP-DRILLED, CUT OR PUNCHED. DO NOT USE TORCH OR FLAME TO CUT OR ENLARGE HOLES.
K. ALL STRUCTURAL STEEL TUBE OR PIPE COLUMNS SHALL BE FILLED WITH 3000 PSI, CONCRETE GROUT. PROVIDE 1/4" DIAMETER WEEP HOLES EACH SIDE '3' FROM TOP AND BOTTOM OF COLUMN.
L. DO NOT PAINT PARTS OF STEEL MEMBERS TO BE EMBEDDED IN CONCRETE AND SURFACES TO BE IN CONTACT WITH CONCRETE.
M. FOR FIREPROOFING OF STRUCTURAL STEEL MEMBERS SEE ARCHITECTURAL DRAWINGS.
N. SEE ARCHITECTURAL MECHANICAL AND PLUMBING DRAWINGS FOR ADDITIONAL MISCELLANEOUS STRUCTURAL STEEL NOT SHOWN IN STRUCTURAL DRAWINGS.
O. FOR PAINTING OF NON-GALVANIZED STRUCTURAL STEEL SEE STRUCTURAL STEEL PROJECT SPECIFICATIONS.
P. WELDING SHALL BE DONE WITH E-70 ELECTRODES, UNLESS OTHERWISE NOTED, CONFORMING TO AWS D1.1. (WELDING OF GRADE 70 REINFORCEMENT IS NOT PERMITTED)
Q. ALL SHOP AND FIELD WELDING SHALL BE IN ACCORDANCE WITH AWS D1.1 STRUCTURAL WELDING CODE, LATEST EDITION. ALL WELDERS SHALL BE AWS-CERTIFIED. SUBMIT WELDER CERTIFICATES TO ARCHITECT/ENGINEER FOR APPROVAL BEFORE ANY SHOP OR FIELD-WELDING IS STARTED.
R. HEADED SHEAR STUDS SHALL BE NELSON ANCHORS WITH FLUXED ENDS OR APPROVED. DEFORMED BAR ANCHORS (D.B.A.) SHALL BE NELSON, TYPE D2L, OR APPROVED. STUDS AND D.B.A. SHALL BE AUTOMATICALLY END-WELDED WITH THE MANUFACTURER'S STANDARD EQUIPMENT IN ACCORDANCE WITH THEIR RECOMMENDATIONS.
S. EXPANSION BOLTS SHALL BE HILTI KWIK BOLT 3 OR APPROVED WITH EQUIVALENT ICC ALLOWABLE TENSION AND SHEAR VALUES. EXPANSION BOLTS SHALL BE INSTALLED IN STRICT CONFORMANCE WITH MANUFACTURER'S RECOMMENDATIONS. DO NOT CUT REINFORCING IN NEW OR EXISTING CONCRETE DURING INSTALLATION.
T. THE STEEL STRUCTURE IS DESIGNED AS A WHOLE WITH THE FLOOR AND ROOF DIAPHRAGM ACTION BRACING THE FRAMES AGAINST GRAVITY AND LATERAL AND VERTICAL WIND FORCES. PROVIDE ALL TEMPORY BRACING AS REQUIRED IN ORDER TO MAINTAIN STEEL STRUCTURE STABLE UNTIL THE STRUCTURE IS COMPLETE.

8. PREFAB. WOOD TRUSSES:

A. FABRICATE ALL WOOD FRAMING MEMBERS AND PREFAB WOOD TRUSSES IN ACCORDANCE WITH THE 'NATIONAL DESIGN SPECIFICATIONS FOR WOOD CONSTRUCTION, 2018 EDITION.
B. WOOD FRAMING MEMBERS OTHER THAN TRUSSES SHALL BE #2 SOUTHERN PINE WITH A FIBER BENDING STRESS AS PER NDS 2018.
C. SIZES SHOWN ARE NOMINAL.
D. MEMBERS SHALL BE FREE OF CRACKS AND KNOTS.
E. MOISTURE CONTENT SHALL BE 19% OR LESS.
F. PRESSURE-TREATED WOOD SHALL BE USED ONLY WHERE SPECIFICALLY NOTED IN THE DRAWINGS. NO FRAMING MEMBERS SHALL BE OF PRESSURE-TREATED WOOD, UNLESS OTHERWISE NOTED.
G. ALL WOOD FRAMING CONNECTORS INCLUDING BOLTS, WASHERS, AND NUTS SHALL BE GALVANIZED
H. ALL EXPOSED STEEL PLATES AND SHAPES NOTED AS CONNECTORS SHALL BE HOT-DIPPED GALVANIZED, TOUCH UP AFTER INSTALLATION WITH 'GALVICON' PAINT, OR APPROVED EQUAL.

12. WIND ANALYSIS DESIGN PARAMETERS:

A. WIND DESIGN HAS BEEN DONE IN ACCORDANCE WITH ASCE 7-16.
B. EXPOSURE 'C'
C. RISK CATEGORY II
D. INTERNAL PRESSURE COEFFICIENT, GCpi= ±0.18.
E. WIND VELOCITY, Vult 175 MPH.

13. LETTER OF COMPLIANCE:

I, AS THE SPECIAL INSPECTOR OF THIS BUILDING, UPON COMPLETION OF THE BUILDING AND PRIOR TO THE ISSUANCE OF THE CERTIFICATE OF OCCUPANCY, WILL FILE A SIGNED AND SEALED STATEMENT WITH THE THE ENFORCEMENT AGENCY THAT STATES THAT 'TO THE BEST OF MY KNOWLEDGE AND BELIEF, THE ABOVE DESCRIBED CONSTRUCTION OF ALL LOAD-BEARING STRUCTURAL COMPONENTS COMPLIES WITH THE PERMITTED DOCUMENTS, AND THE SHORING AND RESHORING TO THE SHORING AND RESHORING PLANS SUBMITTED TO THE ENFORCING AGENCY'.

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ARKO ARCHITECTURE, LLC
2490 CORAL WAY, SUITE 301
MIAMI, FL 33145
edgardo@thearkogroup.com
eduardo@thearkogroup.com
www.thearkogroup.com
p: 305.400.8133

ADDITION & RESTORATION FOR:
MAZZINI & MELINE RESIDENCE
10300 SW 70TH AVE,
MIAMI, FL 33156

DRAWN BY
DATE -- PROJECT
04.03.23 CHECKED BY 22-84
--

REVISIONS

JOAQUIN MONTESINO LICENSE No. 69969 STATE OF FLORIDA PROFESSIONAL ENGINEER

Digitally signed by JOAQUIN MONTESINO
Date: 2024.01.31 11:09:47 -05'00'

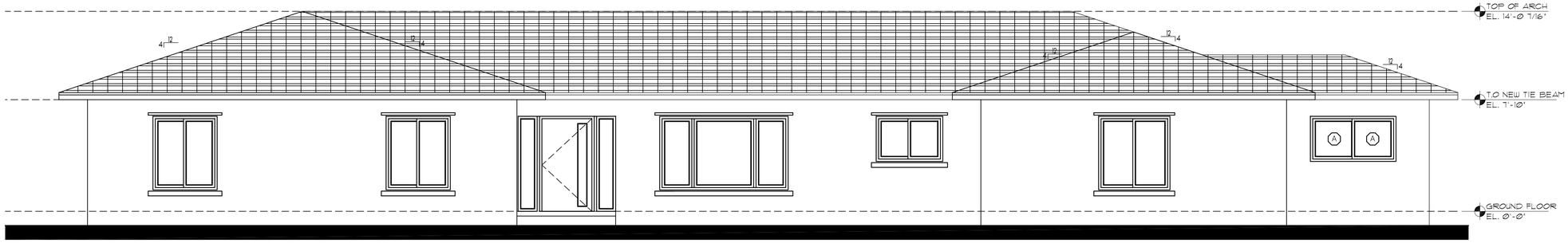
WRITTEN DIMENSIONS ON THESE DRAWINGS SHALL HAVE PRECEDENCE OVER SCALE DIMENSIONS. CONTRACTORS SHALL VERIFY AND BE RESPONSIBLE FOR ALL DIMENSIONS AND CONDITIONS ON THE JOB AND THIS OFFICE MUST BE NOTIFIED OF ANY VARIATION FROM THE DIMENSIONS AND CONDITIONS SHOWN BY THESE DRAWINGS

G2 CONSULTING GROUP, INC.
JOAQUIN MONTESINO, P.E
CONSULTING ENGINEERS
9725 SW. 4 TERR. MIAMI FL. 33174
PHONE & FAX (786) 294-00-32
LIC. #69969, CA 25882

S-6

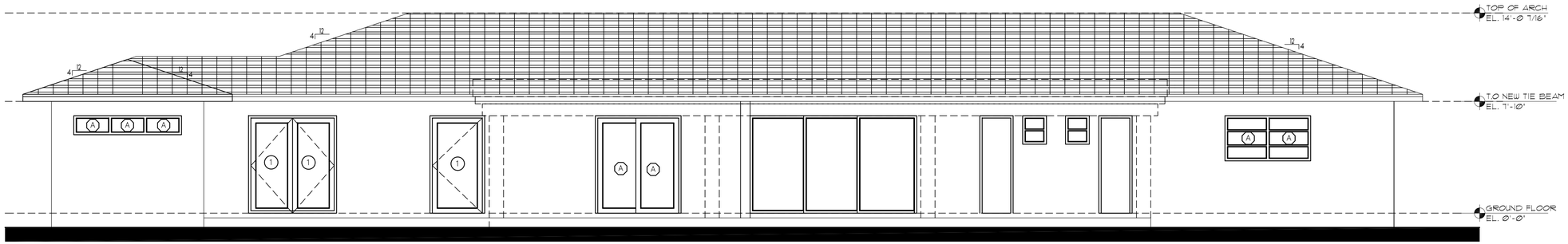
CONSTRUCTION DOCUMENTS

THIS DRAWING IS THE PROPERTY OF THE ARCHITECT HEREBY EXPRESSLY RESERVES THE COPYRIGHT AND PROPERTY RIGHTS IN THESE PLANS. DRAWINGS ARE NOT TO BE REPRODUCED, CHANGED OR COPIED IN ANY FORM OR MANNER WHATSOEVER WITHOUT FIRST OBTAINING WRITTEN PERMISSION AND CONSENT. NOR ARE THEY TO BE ASSIGNED TO ANY PARTY WITHOUT FIRST OBTAINING SAID WRITTEN PERMISSION AND CONSENT.



PROPOSED SOUTH ELEVATION (FRONT)

SCALE: 1/4" = 1'-0"



PROPOSED NORTH ELEVATION (REAR)

SCALE: 1/4" = 1'-0"

Digitally signed by JOAQUIN MONTESINO
Date: 2024.01.31 11:08:29 -05'00'

JOAQUIN MONTESINO LICENSE No. 69969 STATE OF FLORIDA PROFESSIONAL ENGINEER

DOOR PRESSURES-ASD		
MARK	NEGATIVE (-)	POSITIVE (+)
(1) zone 4	41.5 PSF	38.0 PSF
(2) zone 5	49.8 PSF	38.0 PSF

WINDOWS PRESSURES-ASD		
MARK	NEGATIVE (-)	POSITIVE (+)
(A) zone 4	43.5 PSF	40.0 PSF
(B) zone 5	53.6 PSF	40.0 PSF

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ADDITION & RESTORATION FOR:

MAZZINI & MELINE RESIDENCE

10300 SW 70TH AVE,
MIAMI, FL 33156

DRAWN BY
DATE 04.03.23 -- PROJECT 22-84
CHECKED BY --

REVISIONS

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CONSTRUCTION DOCUMENTS

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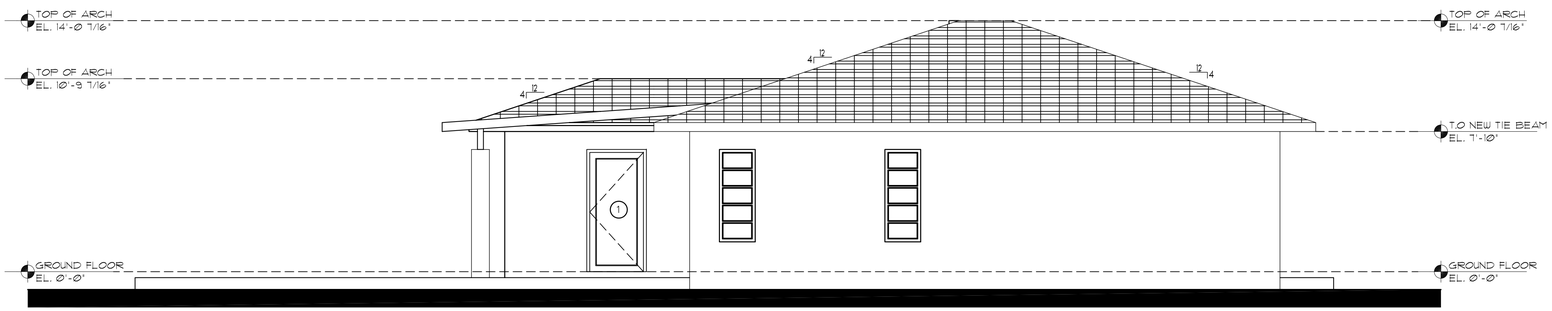
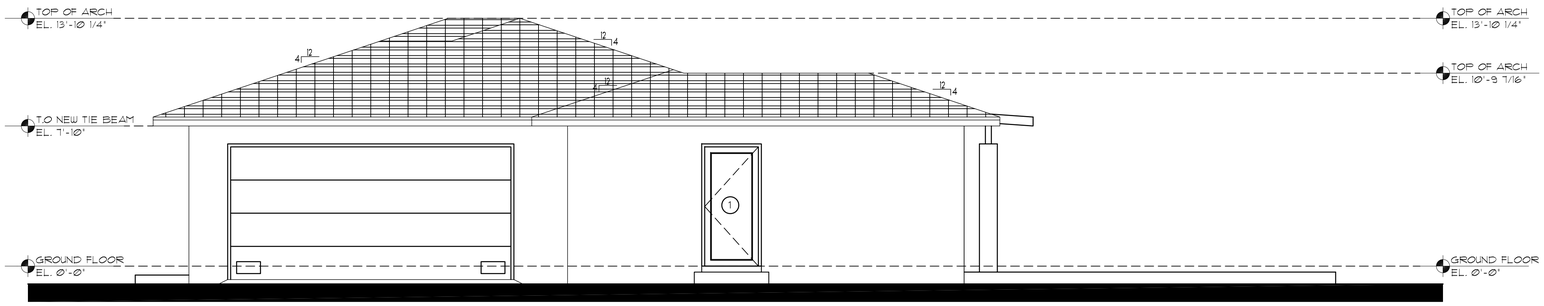


PROPOSED WEST ELEVATION (LEFT)

SCALE: 1/4" = 1'-0"



PROPOSED EAST ELEVATION (RIGHT)

SCALE: 1/4" = 1'-0"

DOOR PRESSURES-ASD		
MARK	NEGATIVE (-)	POSITIVE (+)
(1) zone 4	41.5 PSF	38.0 PSF
(2) zone 5	49.8 PSF	38.0 PSF

WINDOWS PRESSURES-ASD		
MARK	NEGATIVE (-)	POSITIVE (+)
(A) zone 4	43.5 PSF	40.0 PSF
(B) zone 5	53.6 PSF	40.0 PSF

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ADDITION & RESTORATION FOR:

MAZZINI & MELINE RESIDENCE

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MIAMI, FL 33156

DRAWN BY --
DATE 04.03.23 CHECKED BY --
PROJECT 22-84

REVISIONS

JOAQUIN MONTESINO LICENSE No. 69969 STATE OF FLORIDA PROFESSIONAL ENGINEER

Digitally signed by JOAQUIN MONTESINO
Date: 2024.01.31 11:08:47 -05'00'

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CONSTRUCTION DOCUMENTS

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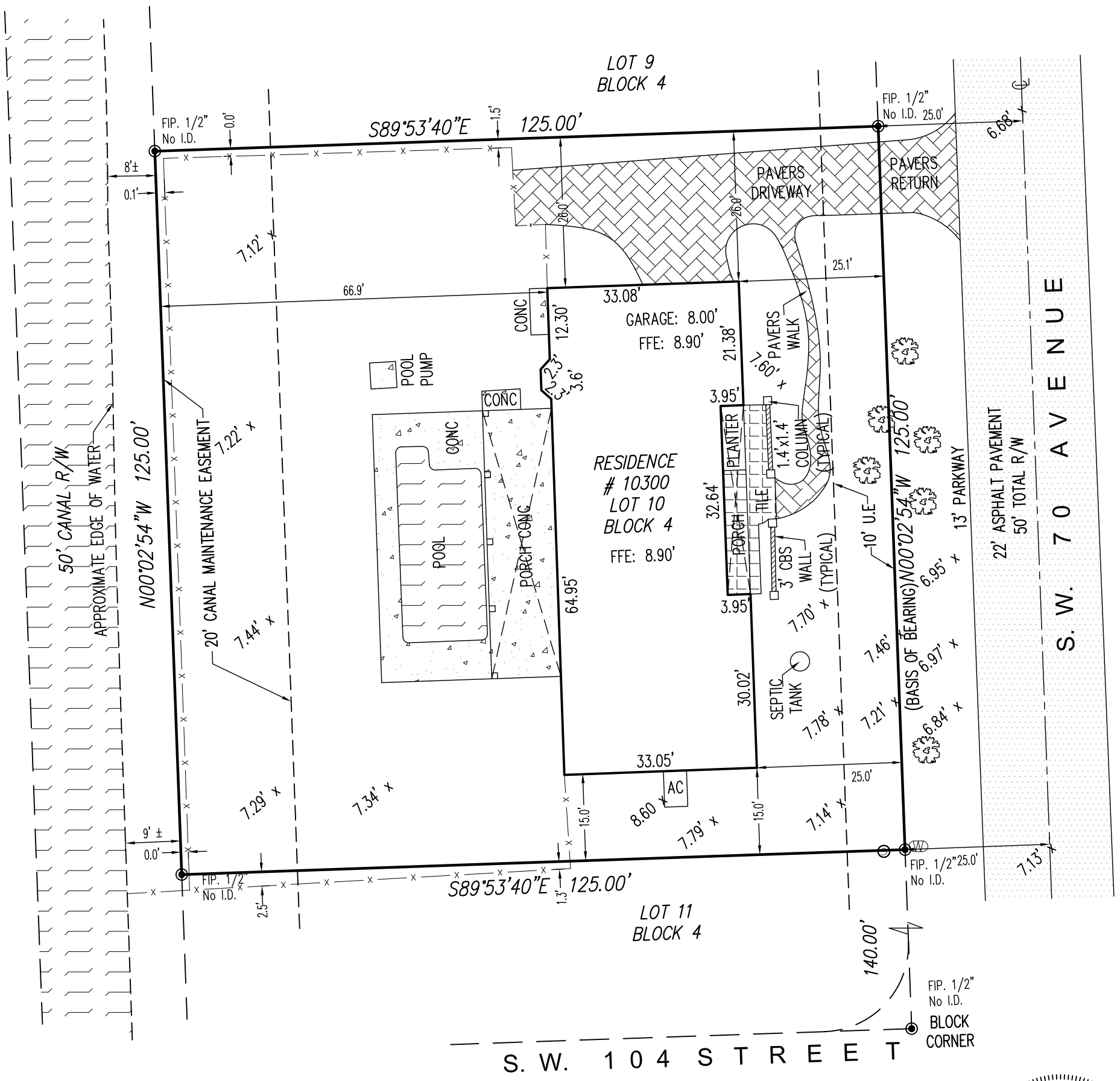
BOUNDARY SURVEY



PEDRO LUIS MARTINEZ ★ LICENSE No. 5443 ★ STATE OF FLORIDA ★ PROFESSIONAL SURVEYOR & MAPPER

ABBREVIATIONS AND LEGEND:

A/C	=DENOTES AIR CONDITIONING UNIT
B.C.	=DENOTES BLOCK CORNER
B.M.	=DENOTES BENCH MARK
D.M.E	=DENOTES DRAINAGE MAINTENANCE EASEMENT
C & G	=DENOTES CURVE & GUTTER
V.G.	=DENOTES VALLEY GUTTER
℄	=DENOTES CENTERLINE
M	=DENOTES MONUMENT LINE
FFE	=DENOTES FINISH FLOOR ELEVATION
F. I/2"IP	=DENOTES FOUND IRON PIPE
NO ID	NOT IDENTIFIED
D.H.	=DENOTES DRILL HOLE
(M)	=DENOTES MEASURE
(R)	=DENOTES RECORD
R/W	=DENOTES RIGHT-OF-WAY
U.E.	=DENOTES UTILITY EASEMENT
P.B.	=DENOTES PLAT BOOK
PG.	=DENOTES PAGE
P.C.P.	=DENOTES PERMANENT CONTROL POINT
	=DENOTES CONCRETE LIGHT POLE
	=DENOTES ATT BOX
	=DENOTES CATCH BASIN
W	=DENOTES WATER METER
// // //	=DENOTES WOOD FENCE
x x x	=DENOTES CHAIN LINK FENCE
o o o	=DENOTES METAL FENCE
	=DENOTES OVERHEAD LINE
	=DENOTES FOUND IRON PIPE (NO ID.)
	=DENOTES TRAFFIC SIGN
	=DENOTES WATER VALVE
	=DENOTES WOOD POWER POLE
S	=DENOTES MANHOLE SANITARY
D	=DENOTES MANHOLE STORM
	=DENOTES TREE
	=DENOTES ASPHALT SLAB
	=DENOTES BRICK SLAB
	=DENOTES CONCRETE SLAB
	=DENOTES TILE SLAB

GENERAL NOTES:

LEGAL DESCRIPTION PROVIDED BY OTHERS.
EXAMINATION OF THE ABSTRACT OF THE TITLE WILL HAVE TO BE MADE TO DETERMINE RECORDED INSTRUMENTS, IF ANY, AFFECT THIS PROPERTY.
THE LANDS SHOWN HEREON WERE NOT ABSTRACTED FOR EASEMENT OR OTHER RECORDED ENCUMBRANCES NOT SHOWN ON THE PLAT.
UNDERGROUND PORTIONS OF FOOTING, FOUNDATIONS OR OTHER IMPROVEMENTS WERE NOT LOCATED.
ONLY VISIBLE AND ABOVE GROUND ENCROACHMENTS LOCATED.
WALL TIES ARE THE FACE OF THE WALL.
FENCE OWNERSHIP NOT DETERMINED.
BEARINGS REFERENCED TO LINE NOTED AS B.R.
BOUNDARY SURVEY MEANS A DRAWING AND/OR GRAPHIC REPRESENTATION OF THE SURVEY WORK PERFORMED IN THE FIELD, COULD BE DRAWN AT A SHOWN SCALE AND/OR NOT TO SCALE.
NO IDENTIFICATION FOUND ON PROPERTY CORNERS UNLESS NOTED.
NOT VALID UNLESS SEALED WITH THE SIGNINGS SURVEYORS EMBOSSED SEAL.
DIMENSIONS SHOWN ARE PLAT AND MEASURED UNLESS OTHERWISE SHOWN.
ELEVATIONS IF SHOWN ARE BASED UPON N.G.V.D. 1929 UNLESS OTHERWISE NOTED.
THIS IS A BOUNDARY SURVEY UNLESS OTHERWISE NOTED.
THIS BOUNDARY SURVEY HAS BEEN PREPARED FOR THE EXCLUSIVE USE OF THE ENTITIES NAME HEREON. THE CERTIFICATIONS DO NOT EXTEND TO ANY UNNAMED PARTIES.

PROPERTY ADDRESS:

10300 S.W. 70th AVENUE, PINECREST, FLORIDA, 33156

LEGAL DESCRIPTION:

LOT 10, BLOCK 4, OF " THIRD ADDITION TO KENDALL EAST ", ACCORDING TO THE PLAT THEREOF, AS RECORDED IN PLAT BOOK 90, AT PAGE 49, OF THE PUBLIC RECORDS OF MIAMI-DADE COUNTY, FLORIDA.

CERTIFIED TO:

- JUAN ALBERTO MAZZINI
- VANESA MELINE LORI

JOB NUMBER: 230355

ALL BEARINGS AND DISTANCES SHOWN HEREON ARE RECORD AND MEASURED UNLESS OTHERWISE NOTED.

FIELD DATE OF SURVEY	04-04-2023	FLOOD ZONE:	COMMUNITY:	PANEL:
BENCH MARK:	DOT BUS 26A	AE	120425	0466
		ELEVATION:	DATE OF FIRM:	SUFFIX:
ELEVATION:	12.86'	10.0'	09-11-2009	L

BOUNDARY SURVEY		
DATE	DRAWN BY	SCALE
04-04-2023	I.C.	1"=20'
REVISION / UPDATE OF SURVEY		
DATE	DESCRIPTION	
N/A	N/A	

ALPHA C&N LAND SERVICES, LLC
BUSINESS LICENSE LB# 8426
5801 N.W. 2ND STREET, MIAMI, FL 33126
(305) 588-6779 (305) 336-1123
ALPHACNLANDSERVICES@GMAIL.COM

PEDRO L MARTINEZ
Digitally signed by PEDRO L MARTINEZ
Date: 2023.04.05 17:45:01 -04'00'

SIGNED _____ FOR THE FIRM
PEDRO LUIS MARTINEZ , LS No 5443-STATE OF FLORIDA NOT VALID WITHOUT AN AUTHENTIC ELECTRONIC SIGNATURE AND AUTHENTICATED ELECTRONIC SEAL AND/OR THIS MAP IS NOT VALID WITHOUT THE SIGNATURE AND THE ORIGINAL RAISED SEAL OF A LICENSE SURVEYOR AND MAPPER.

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

VERIFICATION FORM

DATE:	April 2, 2024	BLDG PROCESS #:	M2024008996
VF#	24-2024-L-VF - 2675	INVOICE(S)#:	N00146863 N/A

THIS FORM EXPIRES ONE YEAR FROM THE DATE ON THE FORM

PROJECT NAME:	MAZZINI & MELINE RESIDENCE 10300 SW 70 AVE M2024008996
PROJECT/AGREEMENT NUMBER:	2024
PROJECT DESCRIPTION:	AN EXISTING 2,193 SQ FT SFR ADDING 229 SQ FT TOTALING 2,422 SQ FT UNDER A/C ON WATER ONLY AS PER CPP PLANS, PTXA , & CCB SP ID# 3018117804
IS THIS AN AFFORDABLE HOUSING PROJECT? **No**	

Folio	Address	Zip Code	Lot	Block	Proposed sq. ft.	Previous sq. ft.
2050020430100	10300 SW 70 AVE	33156	10	4	2,422	2,193

Connection Type	Reason for Connection Information	Critical Habitat	Wetlands	Affordable Housing	SIR Inspection #
Water	Remodeling, Other	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) **6** 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 less than 3001 sqft (210 gpd/unit)	1	210	0

Previous Use	Square Footage/ # Units	Water Gallons Per Day	Sewer Gallons Per Day
2018 - SFR less than 3001 sqft (210 gpd/unit)	1	210	0

Water Service Area	**WASD Water**	**Sewer Service Area**	**N/A**
Net Water GPD	0	**Net Sewer GPD**	0
Net Water Cost ($)	$ 0.00	**Net Sewer Cost ($)**	$ 0.00
Water Basin Charge ($)	No	**Sewer Basin Charge ($)**	No
Total Connection Charges ($)			$ 0.00
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
Total Fixed Fee			$ 30.00
Verification Form Total ($)			$ 30.00
Connection Charges Paid?			**No**

COMMENTS: Refunds are based on the payment date and are subject to State Statute 95-11. Some fees are not refundable.

CUSTOMER NAME: EDGARDO BETANCOURT

CUSTOMER PHONE:

Prepare by: Amber Brown
Printed Name of Reviewer

Approved by: Jose Villiers
Printed Name of Supervisor