

PRESERVATION IMPROVEMENTS FOR
LAKE PARK HISTORIC EVERGREEN HOUSE

601 FEDERAL HIGHWAY
LAKE PARK, FL 33403-2603

PARCEL CONTROL # 36-43-42-20-01-118-0010
SUBDIVISION - KELSEY CITY IN PB 8 PGS 15 TO 18, 23,27,& 34 TO 37 INC.
LEGAL DESCRIPTION: KELSEY CITY ALL (LESS W 20 FT. ROAD R/W) BLOCK 118

APPLICABLE CODES

2023 FL BUILDING CODE 8TH EDITION
2023 FL BUILDING CODE RESIDENTIAL 8TH EDITION
2023 FL BUILDING CODE EXISTING BUILDINGS 8TH EDITION

1. ALL WORK MUST BE PERFORMED UTILIZING THESE CODES, PLUS THE TOWN OF LAKE PARK, FLORIDA LOCAL ORDINANCES IN CHAPTER 54 OF THE TOWN'S CODE OF ORDINANCES WHICH INCLUDES THE FLORIDA ACCESSIBILITY CODE, TEST PROTOCOLS FOR HIGH-VELOCITY HURRICANE ZONES, ETC.

THE SECRETARY OF THE INTERIORS STANDARDS

1. ALL WORK SHALL BE PREFORMED UTILIZING THE CONSTRUCTION METHODS SET BY THE SECRETARY OF THE INTERIORS STANDARDS.

SQUARE FOOTAGE: 1396 TOTAL CONDITIONED SPACE
927 NET USED FOR EXHIBITION SPACE

GENERAL NOTES

1. CONTRACTOR SHALL MAKE A SITE VISIT PRIOR TO SUBMITTING A BID FOR THE PROJECT. PRIOR TO THE START OF CONSTRUCTION, THE CONTRACTOR SHALL VERIFY THE SITE EXISTING CONDITIONS.
2. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS REQUIRED FOR RESTORATION, RENOVATIONS, REMODELING & REPAIRS.
3. ALL WORK PERFORMED UNDER THE CONTRACT SHALL COMPLY WITH THE REQUIREMENT OF THESE PLANS AND PROJECT SPECIFICATIONS & ALL REFERENCES CITED WITHIN THE PROJECT SPECIFICATIONS. THE CONTRACT WITH THE OWNER SHALL GOVERN & SUPERCEDE OVER REFERENCED SPECIFICATIONS MEANS OF MEASUREMENT & PAYMENT SHALL BE AS SET FORTH BY THE OWNER & STATED IN THE CONTRACT.
4. THESE NOTES ARE INTENDED TO ADD CLARIFICATION & SUPPLEMENT PROJECT SPECIFICATIONS & ARE NOT INTENDED TO REPLACE SPECIFICATIONS. SEE PROJECT SPECIFICATIONS ADDITIONAL REQUIREMENTS TO THESE NOTES.
5. ANY & ALL SAFETY REGULATIONS ARE TO BE STRICTLY ADHERE TO METHODS OF CONSTRUCTION & INSTALLATIONS OF STRUCTURAL ELEMENTS & CONSTRUCTION MATERIAL ARE THE RESPONSIBILITY OF THE CONTRACTOR.
6. THE CONTRACTOR SHALL MAINTAIN CLEAN & SAFE JOBSITE. DEMOLISHED MATERIALS & CONSTRUCTION-GENERATED DEBRIS SHALL BE REMOVED DAILY. DISPOSAL OF SAID MATERIALS IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR. CONSTRUCTION DEBRIS SHALL BE DISPOSED OF IN AN APPROVED SANITARY LANDFILL.
7. AS PART OF PERMIT CONDITIONS THE CONTRACTOR MAY BE REQUIRED TO EMPLOY CONSTRUCTION DEBRIS CONTROL MEASURE SUCH AS FENCES & OTHER DEVICES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CLEAN-UP OF ANY PROJECT-GENERATED DEBRIS LOCATED OUTSIDE OF THE IMMEDIATE WORK AREA.
8. THE CONTRACTOR SHALL ABIDE BY ALL APPLICABLE STATE AND FEDERAL ENVIRONMENTAL PROTECTION STANDARDS, LAWS & REGULATIONS.
9. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO REPORT IMMEDIATELY TO THE ENGINEER ANY & ALL UNEXPECTED OBSTACLES, OBSTRUCTIONS, DEBRIS, CONDUITS, CABLES, PIPELINES, TANKS, OR ARTIFACTS UNEARTHED DURING CONSTRUCTION.
10. THE CONTRACTOR SHALL BE RESPONSIBLE FOR BRINGING ALL FACETS OF THE PROJECT IN COMPLIANCE WITH & IN CONFORMANCE WITH THESE PLANS & SPECIFICATIONS IF ANY MODIFICATION TO THE PLAN IS DEEMED BY THE CONTRACTOR. THE CONTRACTOR SHALL SUBMIT PROPOSED CHANGES IN WRITING TO THE ENGINEER FOR APPROVAL.
11. THE CONTRACTOR SHALL LOCATE ALL EXISTING UTILITIES IN THE AREA OF CONSTRUCTION PRIOR TO COMMENCING WITH CONSTRUCTION. CONTRACTOR SHALL NOTIFY THE ENGINEER IN THE EVENT PROJECT ELEMENTS CONFLICT WITH UTILITIES.
12. THE CONTRACTOR SHALL REMOVE ALL CONSTRUCTION EQUIPMENT, STAGING & OTHER TEMPORARY STRUCTURES AT THE COMPLETION OF THE PROJECT.
13. IF DURING PROJECT CONSTRUCTION ANY DAMAGE TO STATE COUNTY OF LOCAL INFRASTRUCTURE INCLUDING BUT NOT LIMITED TO ROADS, SIDEWALKS & UTILITIES IS CAUSED BY CONSTRUCTION ACTIVITIES RELATED TO THIS PROJECT, REPAIRS SHALL BE MADE BY THE CONTRACTOR & APPROVED BY THE ENGINEER.
14. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ADHERING TO ALL CONDITIONS OF ENVIRONMENTAL & BUILDING PERMIT CONDITIONS & COMPLYING TO REGULATE REPORTING REQUIREMENTS.

GENERAL DEMOLITION NOTES

1. DO NOT SAW CUT ANY STRUCTURAL COMPONENT OR DO ANY WORK THAT MAY IN ANY MANNER DIMINISH THE STRUCTURAL INTEGRITY OF THE EXISTING BEAMS, JOISTS, COLUMNS, OR CONCRETE SLABS OR THE BUILDING IN GENERAL.
2. THE DEMOLITION INDICATED IS INTENDED TO SHOW THE GENERAL SCOPE OF DEMOLITION WORK & DIAGRAMMATIC IN NATURE. G.C. TO PERFORM ALL WORK REQUIRED FOR THE SATISFACTORY COMPLETION OF THE INTENT OF THE SCOPE OF WORK INDICATED IN THE DRAWINGS. THE INTENT OF THE DRAWINGS IS TO COMPLETE ALL DEMOLITION AS REQUIRED TO COMPLETE THE PROPOSED NEW CONSTRUCTION & THE G.C. SHALL BE RESPONSIBLE FOR SUCH.
3. THE CODES HAVING JURISDICTION SHALL BE OBSERVED STRICTLY IN THE DEMOLITION ON THE PROJECT INCLUDING ALL APPLICABLE STATE, CITY, COUNTY BUILDING ZONING, ELECTRICAL, MECHANICAL, PLUMBING LIFE SAFETY & FIRE CODES. CONTRACTOR SHALL VERIFY ALL CODE REQUIREMENTS & THE DEMOLITION DOCUMENTS & BRINS ANY DISCREPANCIES TO THE ATTENTION OF THE ARCHITECT.
4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL REQUIRED DEMOLITION & TRADE PERMITS & THEIR RESPECTIVE COSTS.
5. THE CONTRACTOR SHALL VISIT THE PROJECT SITE PRIOR TO DEMOLITION & FOR CONTRACT NEGOTIATIONS & SHALL VERIFY EXISTING CONDITIONS WITH THE DEMOLITION DOCUMENTS (IF THEIR INTENT) SHALL BE BROUGHT TO THE ENGINEERS ATTENTION FOR CLARIFICATION. BIDS SHALL NOT BE SUBMITTED OR CONTRACTS NEGOTIATED BY THE CONTRACTOR PRIOR TO CLARIFICATION OF THE INTENT OF THE DEMOLITION DOCUMENTS WHERE SUCH INTENT IS IN DOUBT.
6. THE CONTRACTOR SHALL MAINTAIN THE PREMISE CLEAN & FREE OF TRASH DEBRIS & SHALL PROTECT ALL ADJACENT WORK FROM DAMAGE, SOILING ETC. ALL REMAINING FACILITIES SHALL BE LEFT CLEAN FOR CONSTRUCTION UPON COMPLETION OF DEMOLITION.
7. SHUTOFF CAP & OTHERWISE PROTECT PUBLIC UTILITY LINES IN ACCORDANCE WITH THE REQUIREMENTS OF THE PUBLIC AGENCY OR UTILITY HAVING JURISDICTION.
8. USE THE MEANS NECESSARY TO PREVENT DUST FROM BECOMING A NUISANCE.
9. G.C. TO PATCH & REPAIR GWS AT ALL LOCATIONS WHERE THE EXISTING SURFACE IS NOT STRAIGHT & TRUE.
10. ALL AREAS AFFECTED/DAMAGED BY ANY WORK SHALL BE REPAIRED TO LIKE NEW CONDITION BY G.C.

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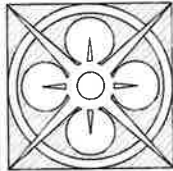
PROJECT INFORMATION

1. OWNER: TOWN OF LAKE PARK
535 PARK AVENUE
LAKE PARK, FL 33403-2603
- MAILING ADDRESS
535 PARK AVENUE
WEST PALM BEACH, FL 33403-2603
2. ZONING: "P" FOR PUBLIC DISTRICT
3. OCCUPANCY: BUSINESS GROUP B FOR HOUSE MUSEUM. OCCUPANT LOAD: 927 S.F. OF EXHIBITION SPACE DIVIDED BY 30 S.F. PER PERSON=31.9 PEOPLE. USE 30 PEOPLE TOTAL AS YOUR OCCUPANT LOAD.

PROVISIONS FOR HOUSE MUSEUMS IN THE FLORIDA BUILDING CODE (FBC) ARE PRIMARILY LOCATED IN THE FBC, EXISTING BUILDING (CHAPTER 12-HISTORIC BUILDINGS) AND FBC, BUILDING (SECTION 1201.3 ALLOWS R-3 RESIDENTIAL BUILDINGS TO BE CLASSIFIED AS GROUP B WHEN USED AS MUSEUMS, SUBJECT TO SAFETY CONDITIONS. KEY FBC PROVISIONS FOR HOUSE MUSEUMS:

- OCCUPANCY CLASSIFICATION (1201.3): SMALL RESIDENTIAL-TYPE HOUSE MUSEUMS (OFTEN CLASSSED AS GROUP R-3) THAT ARE TRANSFORMED FOR PUBLIC ASSEMBLY CAN BE TREATED AS GROUP B (BUSINESS) RATHER THAN STRICT A (ASSEMBLY) OCCUPANCIES, PROVIDED THEY ARE UNDER 3000 SQUARE FEET PER FLOOR AND AUTHORIZED BY THE CODE OFFICIAL.
- HISTORIC BUILDING PRESERVATION (1201.2): THE CODE ACKNOWLEDGES THE NEED TO PRESERVE THE HISTORIC CHARACTER OF BUILDINGS DURING REPAIR, ALTERATION, OR CHANGE OF OCCUPANCY.
- MEANS OF EGRESS (1001.1):EXISTING BUILDINGS MUST MAINTAIN APPROVED EGRESS SYSTEMS, BUT EXCEPTIONS EXIST FOR HISTORIC BUILDINGS WHEN STRICT COMPLIANCE WOULD BE DESTRUCTIVE, AS DETAILED IN THE FBC, EXISTING BUILDING AND ADA ACCESSIBLE RULES.

4. NUMBER OF EXITS: WE ARE PROVIDING (1) EXIT, BECAUSE OUR OCCUPANT LOAD IS LESS THAN (49) AND THE COMMON PATH OF TRAVEL DOES NOT EXCEED 75'.
5. TYPE OF CONSTRUCTION: TYPE V



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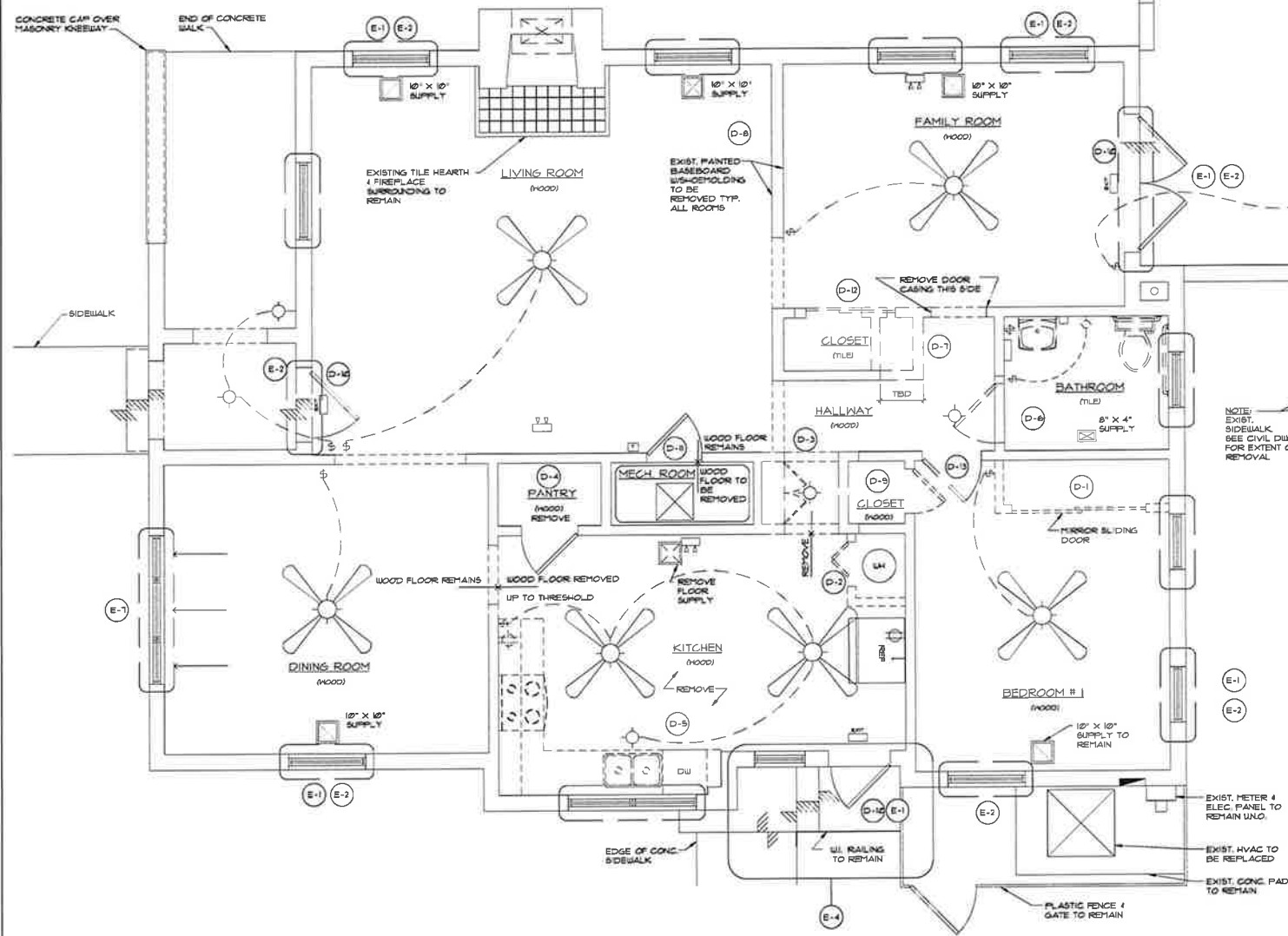
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Commission No.		
Date	08 22 2024	
Scale	1/8" = 1'-0"	
Drawn by	Lucia R. Lane	
Checked by	Doug Lane	
Sheet No.	of	

Title & Drawing
Index

T-1.0

NOTE:
SEE STRUCTURAL DWGS.
FOR REMEDIAL WORK REQ. TO PREPARE EXIST.
SILLS, JAMBS & HEADS CONDITIONS FOR ALL
EXTERIOR WINDOWS & DOORS TYP.



DEMOLITION NOTES - INTERIOR

- D-1 REMOVE DIY CLOSET WALLS & MIRROR GLASS SLIDING DOORS.
D-2 REMOVE DIY CLOSET W/LOUVERED BI-FOLD DOOR RELOCATE WATER HEATER TO PANTRY; SEE NEW FLOOR PLAN.
D-3 REMOVE PLYUD DOORS, SHELVING, ETC. PREP FOR NEW USE PER NEW FLOOR PLAN.
D-4 REMOVE ALL SHELVING, BASEBOARD WOOD FLOORING. REMOVE WALL & CEILING FINISHES IN THE PANTRY.
D-5 REMOVE APPLIANCES, COUNTERTOPS, CABINETS, SINK, DISHWASHER, WOOD BASEBOARDS, WOOD FLOORING & ANY DAMAGED SUB-FLOORING TO PROVIDE ACCESS TO CRAWL SPACE BY TRADES TO REPLACE/UPDATE ELECTRICAL, HVAC DUCTWORK & PLUMBING, ETC. REMOVE INTERIOR WALL FINISHES TO THE STUDS TO ROUTE NEW UTILITIES. MAINTAIN & PROTECT THE EXIST. WOOD CEILING, SCHEDULED TO REMAIN IN THE KITCHEN. REMOVE WOOD CROWN & SAVE TO REINSTALL AFTER REMODELING THE NEW WALLS.
D-6 REMOVE EXISTING DOOR DOOR CASING & JAMB, REMOVE BATHROOM TOILET, LAVATORY, GRAB BARS, SOAP & PAPER DISPENSERS, WOOD BASEBOARD, WOOD WAINSCOTING, & WALL PAPER. REMOVE PLASTER/GYPS FINISH OFF OF THE THREE INTERIOR WALLS BACK TO STUDS. THE EXTERIOR WALLS PLASTER SHALL REMAIN. REMOVE TILE FLOOR & SUPPORT DOWN TO FLOOR FRAMING. REMOVE & SAVE THE EXISTING WOOD CROWN MOLDING FOR RE-INSTALLATION AFTER THE REMODELING WORK IS COMPLETED. THE EXISTING WOOD CEILING SHALL REMAIN.
D-7 REMOVE ENOUGH OF THE HALLWAY CLOSET WALL TO PROVIDE A 5'-3\"/>

DEMOLITION GENERAL NOTES

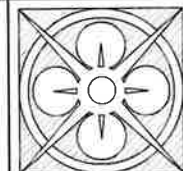
1. PROVIDE & MAINTAIN SECURITY & WEATHER PROTECTION TO THE INTERIOR OF THE BUILDING THROUGHOUT THE PROJECT.
2. COVER WITH PROTECTION BOARD THE EXISTING WOOD FLOORS SCHEDULED TO REMAIN THROUGHOUT THE PROJECT.
3. PROTECT THE EXISTING WOOD CEILINGS & CROWN MOLDINGS SCHEDULED TO REMAIN. ALL WOOD CEILINGS & CROWN TO BE REMOVED SHALL BE SAVED FOR REUSE.
4. COVER & PROTECT THE TILE HEARTH & THE CUT STONE MANTLE AND FIREPLACE SURROUND THROUGHOUT THE PROJECT.
5. REMOVE AND SAVE FOR POTENTIAL REUSE ALL THE METAL FLOOR SUPPLY GRILLES. PREP FOR NEW PAINT.
6. CARE SHALL BE SUPPLIED TO THE AREA'S SCHEDULED TO HAVE THE PLASTER FINISHES REMOVED ON ONE SIDE OF THE WALL, SO AS NOT TO DISTURB/DAMAGE THE OTHER SIDE OF THE WALL FINISH SCHEDULED TO REMAIN. THIS APPLIES TO THE KITCHEN & BATHROOM.
7. MAINTAIN POWER, WATER & LIGHTS NECESSARY FOR WORK & NIGHT TIME SECURITY THROUGHOUT THE PROJECT.
8. PROVIDE BARRIERS, SIGNS AND/OR TAPE LINES TO DEFINE THE CONSTRUCTION AREA SURROUNDING THE PROJECT. PROVIDE BARRIERS AROUND THE TREES ON SITE.
9. PLACE DUMPSTER LOCATED ON THE STREET AND/OR PAVED AREAS ON PLYWOOD TO MINIMIZE DAMAGE.
10. DO NOT BLOCK ANY SIDEWALKS AND/OR PATHWAY SURROUNDING THE PROJECT. STORE ALL CONSTRUCTION MATERIALS INSIDE THE IDENTIFIED CONSTRUCTION AREA.
11. PROTECT FRONT ENTRY DECORATIVE TILES ON THE STEPS & SIDEWALK LEADING UP TO THE FRONT ENTRY.



DEMOLITION PLAN
D-1.0 SCALE: 3/8" = 1'-0"

DEMOLITION NOTES - EXTERIOR

- E-1 REMOVE ALL HURRICANE SHUTTER BRACKETS FROM THE WINDOWS & DOORS. DISPOSE OF BRACKETS, PATCH ALL HOLES IN THE STUCCO LEFT BY THE FASTENERS, PREP FOR PAINT, TYPICAL ALL CONDITIONS.
E-2 REMOVE ALL EXIST. WINDOWS, DOORS & ASSOCIATED WOOD BUCKS. PREP EACH OPENING FOR THE NEW IMPACT WINDOW & DOOR PACKAGE PER THE PRESCRIPTIVE METHOD IDENTIFIED IN THE STRUCTURAL ENGINEER'S DWGS. TYP.
E-3 SCRAPE FAILING FINISH FROM THE CONC. SLAB ON THE REAR TERRACE. PREP FOR NEW FINISH.
E-4 REMOVE CLAY & CONC. TILE & DISPOSE. REMOVE EXIST. KITCHEN DOOR CANOPY/HOOD. SAVE PARTS TO USE AS A TEMPLATE TO RE-CREATE THE FEATURES.
E-5 REMOVE ALL ABANDONED UTILITY PIPES, CONDUITS, BOXES, ETC., PENETRATING AND/OR MOUNTED TO THE EXTERIOR & PREP TO PATCH FINISH.
E-6 REFER TO THE EXTERIOR ELEVATIONS FOR ADDITIONAL ITEMS TO BE ADDRESSED. INVESTIGATE THE CONSTRUCTION OF THE ARCHED WALLS OVER THE HEAD OF THE (3) ARCHED WINDOWS ON THE INTERIOR SIDE OF THE DINING ROOM WEST WALL. DO NOT DAMAGE EXTERIOR DECORATIVE STUCCO SURROUND. REPORT FINDINGS TO STRUCTURAL ENGINEER.



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Preservation Improvements for
Park Historic Evergreen House
601 Federal Highway
Lake Park, FL 33403-2603

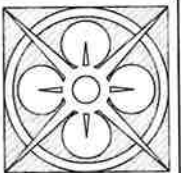


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Drawn by	Lustia R. Lane	
Checked by	Doug Lane	
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Demolition Plan

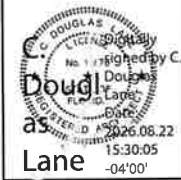
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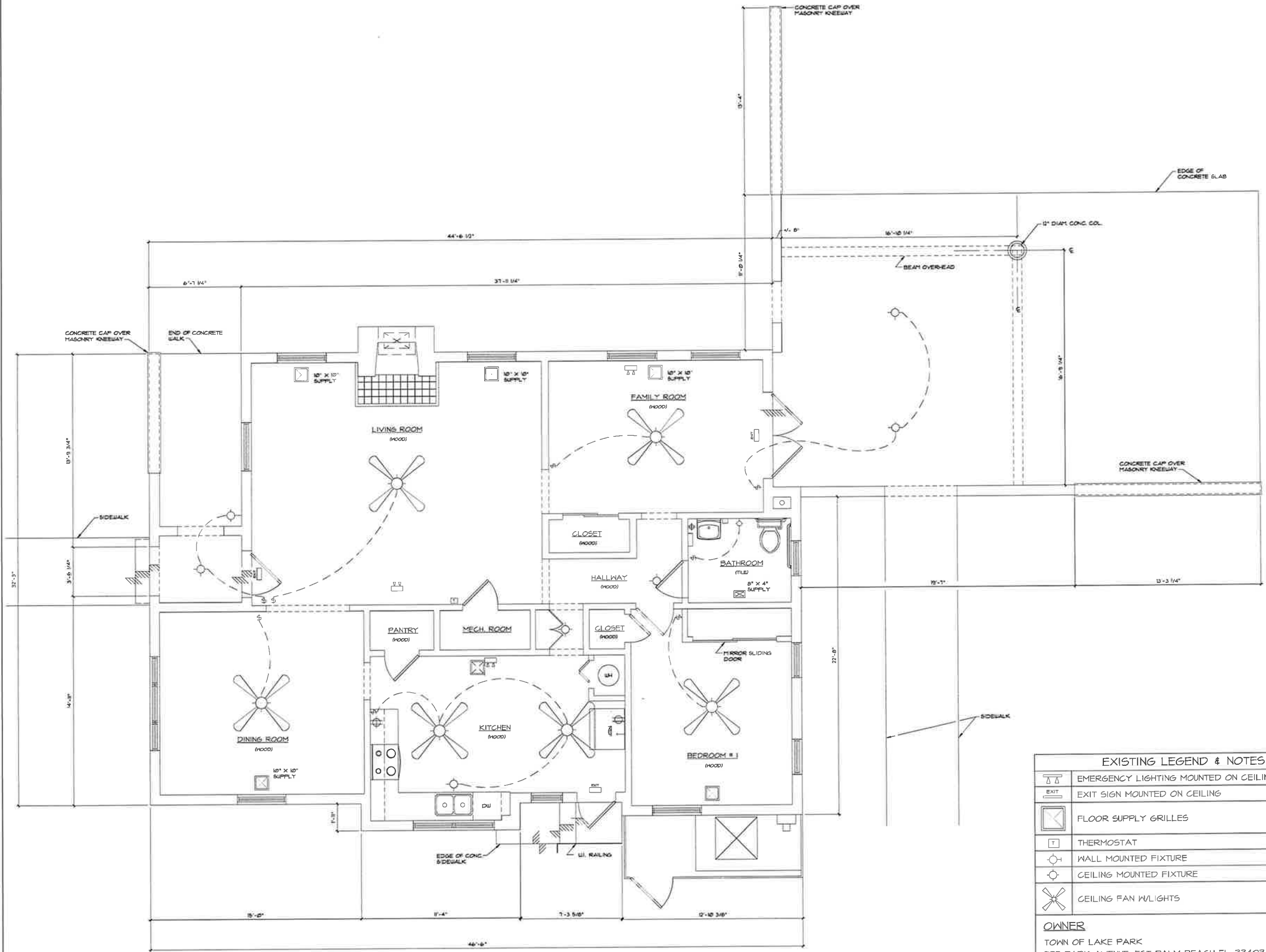


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Checked by Doug Lane		
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Existing Floor Plan

A-1.0

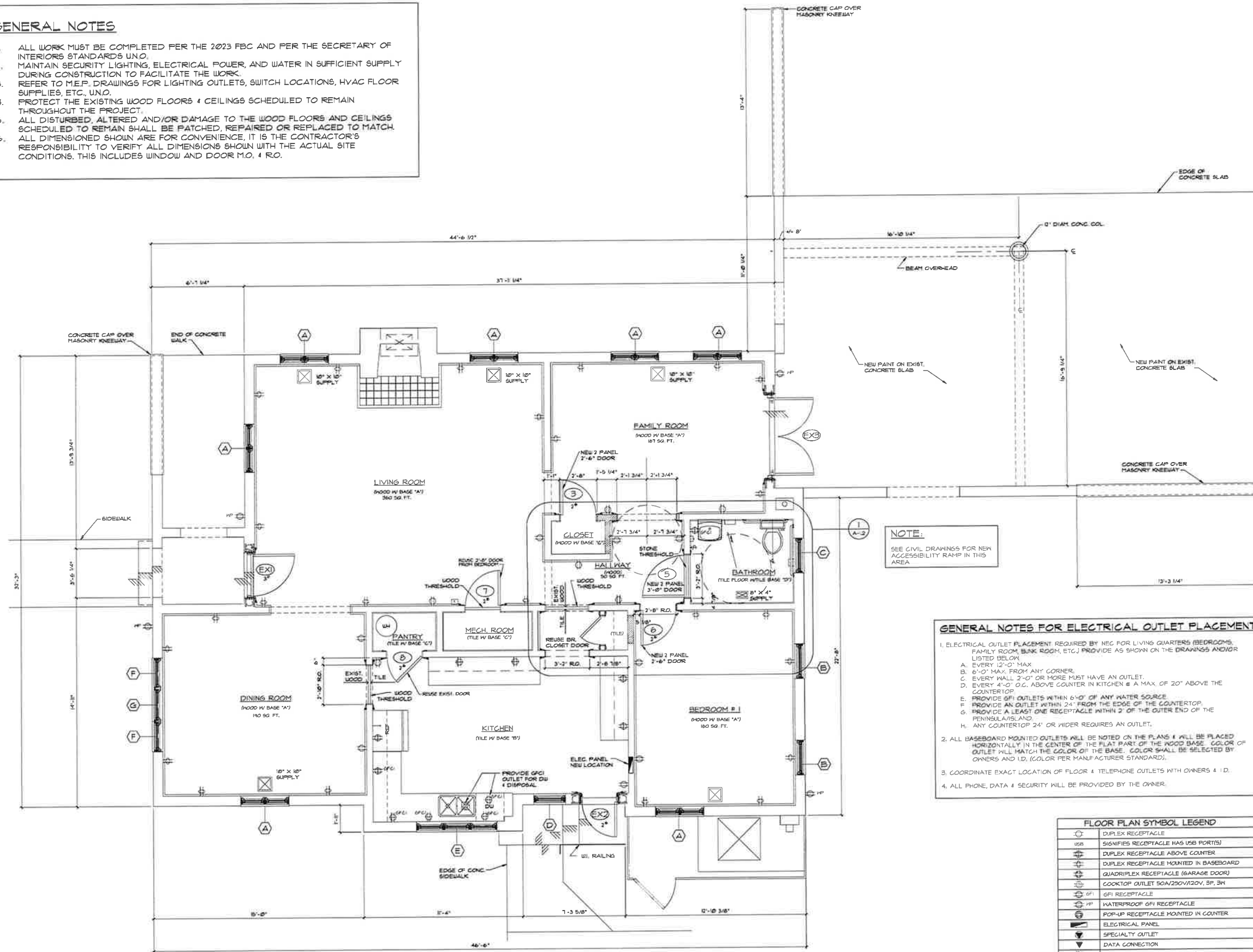


 **EXISTING FLOOR PLAN**
A-1.0 SCALE: 3/8" = 1'-0"
SQUARE FOOTAGE - 1396 S.F. CONDITIONED

EXISTING LEGEND & NOTES	
	EMERGENCY LIGHTING MOUNTED ON CEILING
	EXIT SIGN MOUNTED ON CEILING
	FLOOR SUPPLY GRILLES
	THERMOSTAT
	WALL MOUNTED FIXTURE
	CEILING MOUNTED FIXTURE
	CEILING FAN W/LIGHTS
OWNER TOWN OF LAKE PARK 535 PARK AVENUE, EST PALM BEACH FL, 33403-2603	

GENERAL NOTES

1. ALL WORK MUST BE COMPLETED PER THE 2023 FBC AND PER THE SECRETARY OF INTERIORS STANDARDS UNO.
2. MAINTAIN SECURITY LIGHTING, ELECTRICAL POWER, AND WATER IN SUFFICIENT SUPPLY DURING CONSTRUCTION TO FACILITATE THE WORK.
3. REFER TO M.E.P. DRAWINGS FOR LIGHTING OUTLETS, SWITCH LOCATIONS, HVAC FLOOR SUPPLIES, ETC., UNO.
4. PROTECT THE EXISTING WOOD FLOORS & CEILING SCHEDULED TO REMAIN THROUGHOUT THE PROJECT.
5. ALL DISTURBED, ALTERED AND/OR DAMAGE TO THE WOOD FLOORS AND CEILING SCHEDULED TO REMAIN SHALL BE PATCHED, REPAIRED OR REPLACED TO MATCH.
6. ALL DIMENSIONED SHOWN ARE FOR CONVENIENCE, IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL DIMENSIONS SHOWN WITH THE ACTUAL SITE CONDITIONS. THIS INCLUDES WINDOW AND DOOR M.O. & R.O.



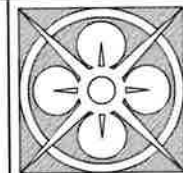
NOTE:
SEE CIVIL DRAWINGS FOR NEW
ACCESSIBILITY RAMP IN THIS
AREA.

GENERAL NOTES FOR ELECTRICAL OUTLET PLACEMENT

1. ELECTRICAL OUTLET PLACEMENT REQUIRED BY NEC FOR LIVING QUARTERS (BEDROOMS, FAMILY ROOM, BUNK ROOM, ETC.) PROVIDE AS SHOWN ON THE DRAWINGS AND/OR LISTED BELOW.
 - A. EVERY 12'-0" MAX.
 - B. 6'-0" MAX. FROM ANY CORNER.
 - C. EVERY WALL 2'-0" OR MORE MUST HAVE AN OUTLET.
 - D. EVERY 4'-0" O.C. ABOVE COUNTER IN KITCHEN & A MAX. OF 20" ABOVE THE COUNTERTOP.
 - E. PROVIDE GFI OUTLETS WITHIN 6'-0" OF ANY WATER SOURCE.
 - F. PROVIDE AN OUTLET WITHIN 24" FROM THE EDGE OF THE COUNTERTOP.
 - G. PROVIDE A LEAST ONE RECEPTACLE WITHIN 2' OF THE OUTER END OF THE PENINSULA/ISLAND.
 - H. ANY COUNTERTOP 24" OR WIDER REQUIRES AN OUTLET.
2. ALL BASEBOARD MOUNTED OUTLETS WILL BE NOTED ON THE PLANS & WILL BE PLACED HORIZONTALLY IN THE CENTER OF THE PLAT PART OF THE WOOD BASE. COLOR OF OUTLET WILL MATCH THE COLOR OF THE BASE. COLOR SHALL BE SELECTED BY OWNERS AND ID. (COLOR PER MANUFACTURER STANDARD).
3. COORDINATE EXACT LOCATION OF FLOOR & TELEPHONE OUTLETS WITH OWNERS & ID.
4. ALL PHONE, DATA & SECURITY WILL BE PROVIDED BY THE OWNER.

FLOOR PLAN SYMBOL LEGEND	
	DUPLEX RECEPTACLE
	USB RECEPTACLE (HAS USB PORTS)
	DUPLEX RECEPTACLE ABOVE COUNTER
	DUPLEX RECEPTACLE MOUNTED IN BASEBOARD
	QUADRIPLEX RECEPTACLE (GARAGE DOOR)
	COOKTOP OUTLET 50A/250V/120V, 3P, 3W
	GFI RECEPTACLE
	WATERPROOF GFI RECEPTACLE
	POP-UP RECEPTACLE MOUNTED IN COUNTER
	ELECTRICAL PANEL
	SPECIALTY OUTLET
	DATA CONNECTION
	TELEPHONE & DATA CONNECTION
	SMART 2 JACK, TV AND DATA @ 16" AFF, U.O.N.
	DISCONNECT SWITCH: 2 POLE, 30 AMP, NON-FUSED
	PLUS MOLD ELECTRICAL STRIP
	SECURITY SYSTEM KEYPAD @ 60" AFF
	THERMOSTAT @ 60" AFF

NEW FLOOR PLAN
A-1.1 SCALE: 3/8" = 1'-0"
1396 SQ. FT.



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Drawn By	Lacie R. Lane	
Checked By	Doug Lane	
Sheet No	of	

New Floor Plan

A-1.1



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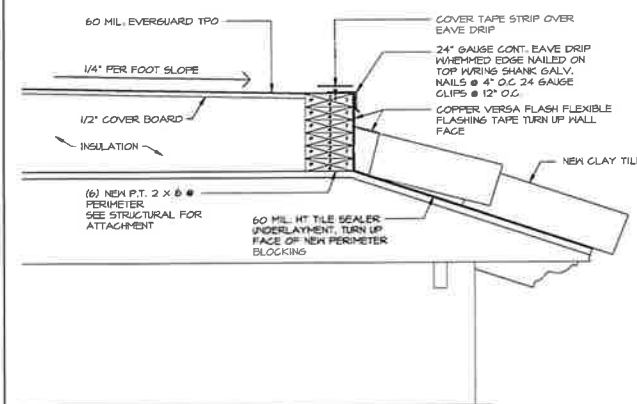
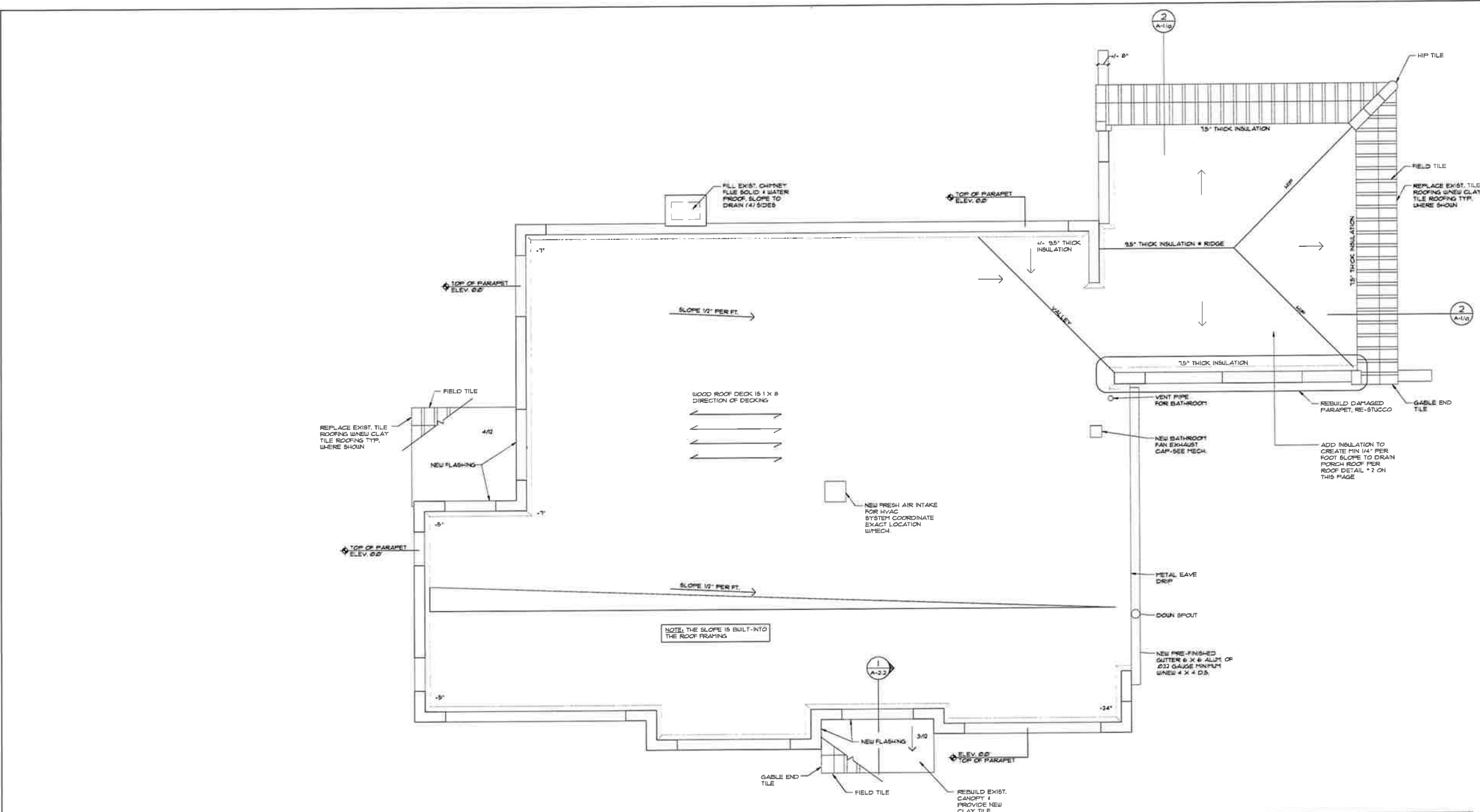
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Date	08/22
Scale	As Noted
Drawn by	Lucia R. [Signature]
Checked by	Doug [Signature]

Roof Plan

A-1.1a



2 ROOF DETAIL
A-1.1 SCALE: 1 1/2" = 1'-0"

ROOF PLAN
A-1.1.1 SCALE: 3/8" = 1'-0"

ROOFING NOTES:

1. REMOVE EXISTING ROOFING, FLASHING, ETC. TO EXPOSE ORIGINAL 1 X 8 WOOD DECKING. REPAIR & RE-MAIL AS REQUIRED, REPAIR AS REQUIRED.
2. ADD GAF COVER BOARD OVER ORIGINAL HOUSE ROOF AREA.
3. ADD GAF INSULATION & COVER BOARD OVER THE COVERED PORCH AREA AS INDICATED IN DETAIL 2 & PER THE ROOF PLAN.
4. COVER W/WEATHERGUARD 60 MIL. TPO & ATTACH PER MANUFACTURER RECOMMENDATION FOR BOTH AREAS.
5. PROVIDE ALL EAVE, PARAPET, COUNTER FLASHING, TERMINATION BAR, ETC., REQUIRED FOR A COMPLETE WATERIGHT INSTALLATION.

ROOF SPECIFICATIONS-ALL WORK SHALL BE PERFORMED PER THE 7TH EDITION FLORIDA HIGH WIND CONCRETE & CLAY TILE INSTALLATION MANUAL (12/31/23).

CLAY TILE MANUFACTURER: SANTAFE TILE CORPORATION

PRODUCT: SPANISH "S" CLAY ROOF TILE

FLORIDA APPEAL # FL 2019-1-RI4

INSTALLATION: ADHESIVE SET SYSTEM ON 4 : 12 OR LESS SLOPED ROOFS. PROVIDE FASTENERS IN ADDITION FOR THE FIRST ROW OF TILES, AT GABLE EAVE RAKES AND HIP CONDITIONS.

MATERIAL: PROVIDE ALL ACCESSORIES AND TRIM PIECES, INCLUDING BIRD STOPS FOR A COMPLETE INSTALLATION INCLUDING ALL 16 OZ. COPPER EAVE DRIP, FLASHING, ETC., SHOWN AND OR REQUIRED FOR A COMPLETE WATERTIGHT INSTALLATION

COPPER HEAD FLASHING: TRA-VERSA FLASH ST-CII-RIBBED SELF ADHESIVE FLEXIBLE FLASHING TAPE

UNDERLAYMENT: WESTLAKE ROYAL 60 MIL. HT. TILE SEAL

MANUFACTURER: WESTLAKE ROYAL ROOFING LLC

FLORIDA APPROVAL # FL14317J-R-18-HT SELF ADHERED MODIFIED.

MEMBRANE ROOFING SPECIFICATIONS-THE CONTRACTOR SHALL

PROVIDE ALL LABOR, MATERIALS REQUIRED TO REPLACE THE EXISTING FLAT ROOFING MATERIAL WITH A NEW SINGLE-PLY MEMBRANE ROOFING SYSTEM TO PROVIDE A NEW WATER-TIGHT ROOF AS SPECIFIED BELOW. THE CONTRACTOR SHALL PROVIDE ALL LABOR & MATERIALS TO ADDRESS ALL EXISTING AND NEW CONDITIONS AS INDICATED IN THE NEW ROOF PLAN.

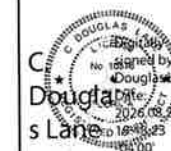
MANUFACTURER: GAF
~~FLORIDA PRODUCT # FL 252E3-R6~~
 PRODUCT EVER GUARD TPO 60 MIL MEMBRANE
 ROOF SYSTEMS (HVHZ)
 COLOR: TAN 620

COLOR: TAN 820
MECHANICAL ATTACHED OR ADHERED USING EVERGUARD WBI/DI BONDING ADHESIVE
GAF - COLOR BANDS AS REQUIRED I INDICATED ON THE DRAWINGS.
GAF - ENERGY GUARD INSULATION AND DRILL-TECH RHINO-BOND PLATES AS REQUIRED.
30 - YEAR WARRANTY
CERTIFIED ROOFING CONTRACTORS ONLY FOR THE INSTALLATION.
ACCESSORIES: PROVIDE AND INSTALL PARTS & PIECES REQUIRED TO PROVIDE A WATER-TIGHT
ROOF, INCLUDING FEATURES SUCH AS INSIDE AND OUTSIDE CORNER FLASHINGS, CORNERS, VENTS
& GUTS, EXHAUST FANS, ROOF AIR COOLERS, PARAPETS, WALL REGISTS AND OR
SURFACE WATERS/CONTING FLASHING, ETC. AS REQUIRED



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 Lake Park, FL 33403-2603



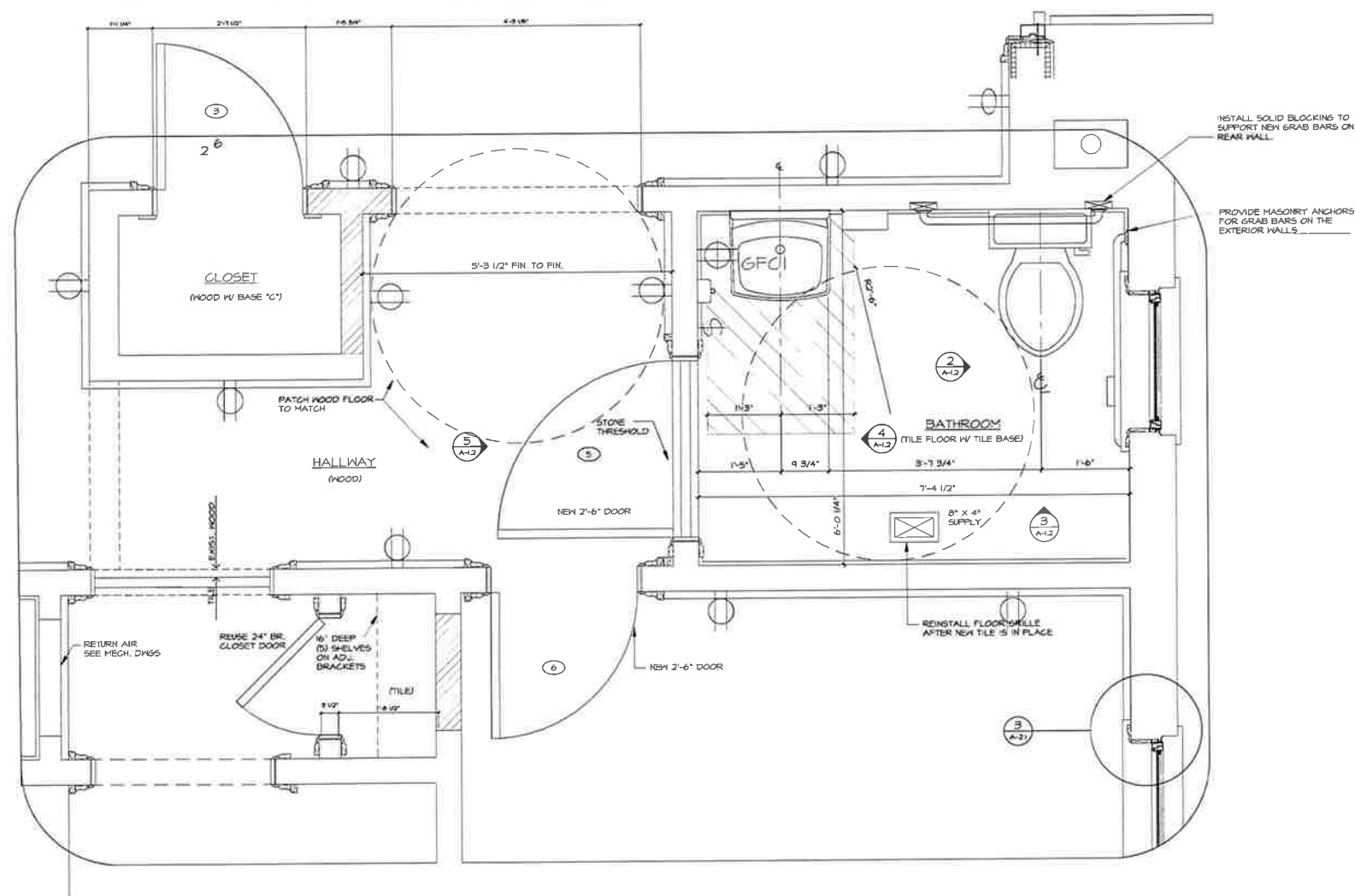
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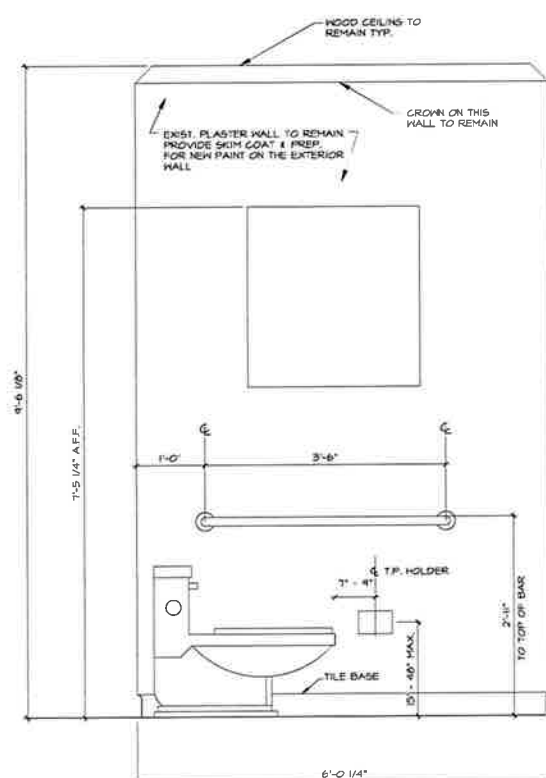
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Enlarged
Bathroom Plan

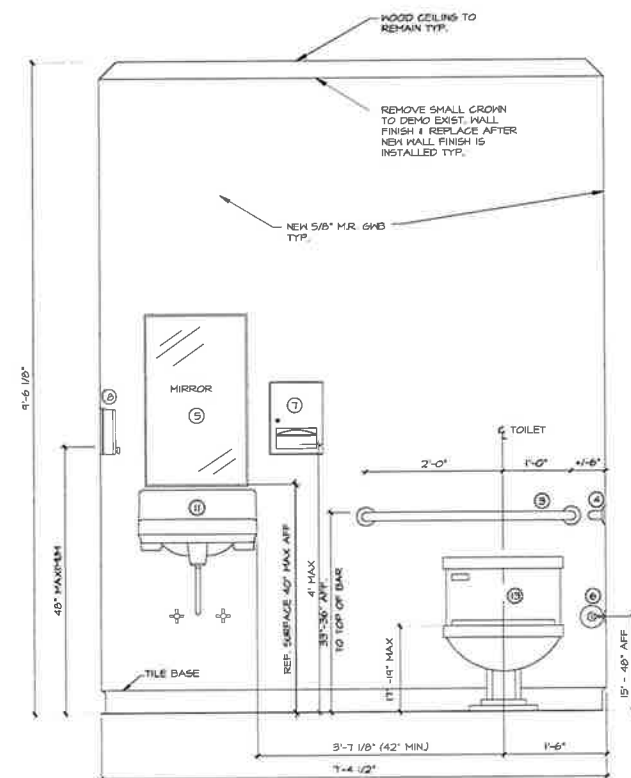
A-1.2



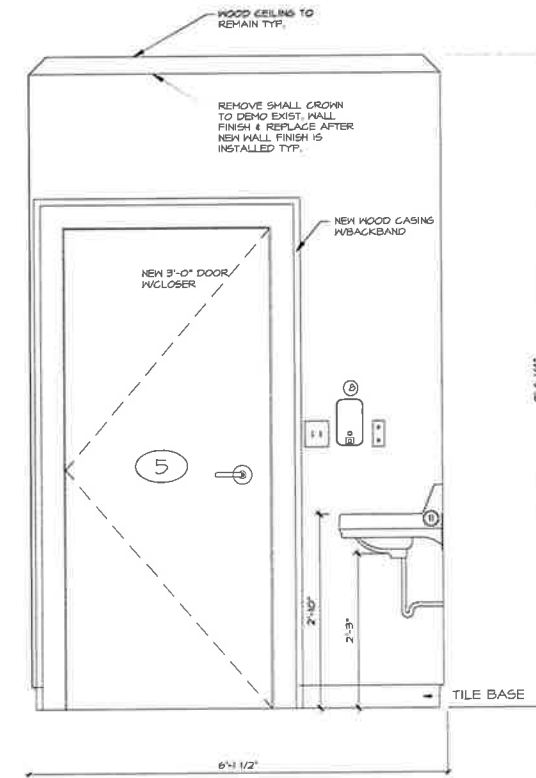
ENLARGED BATHROOM PLAN
SCALE: 1" = 1'-0"



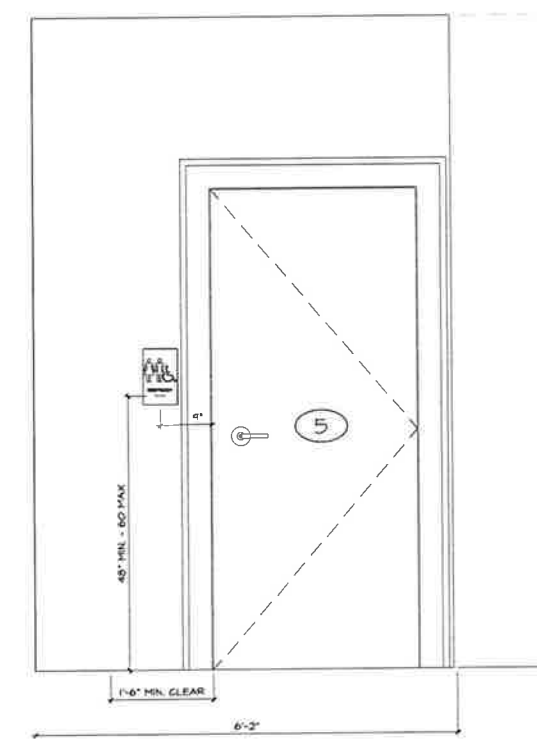
2 EAST ELEVATIONS
A-1.2 SCALE: 1" = 1'-0"



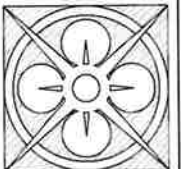
3 NORTH ELEVATION
A-12 SCALE: 1" = 1'-0"



4 WEST ELEVATION
A-1.2 SCALE: 1" = 1'-0"



5 EAST ELEVATION
A-1.2 SCALE: 1" = 1'-0"



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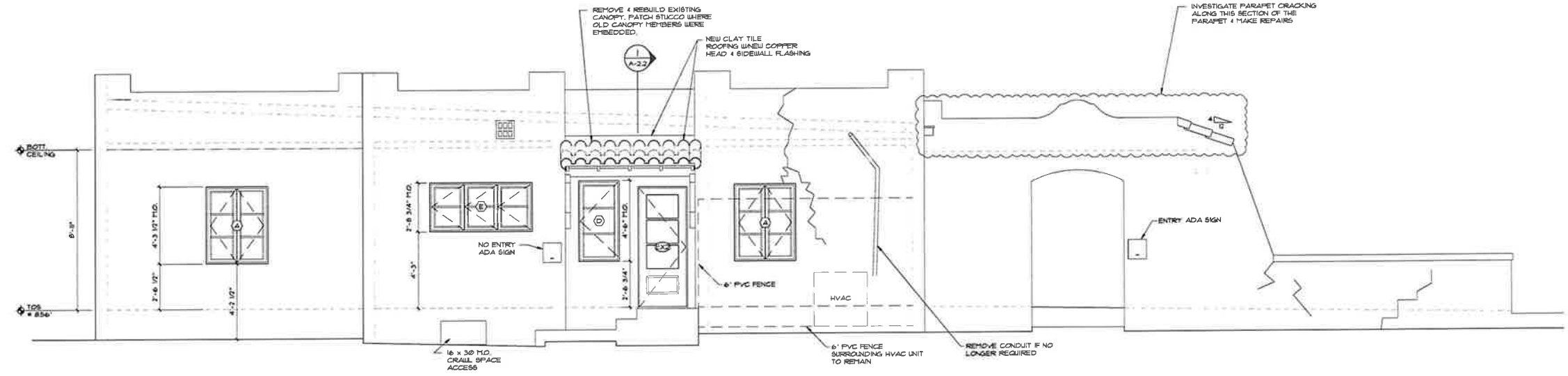


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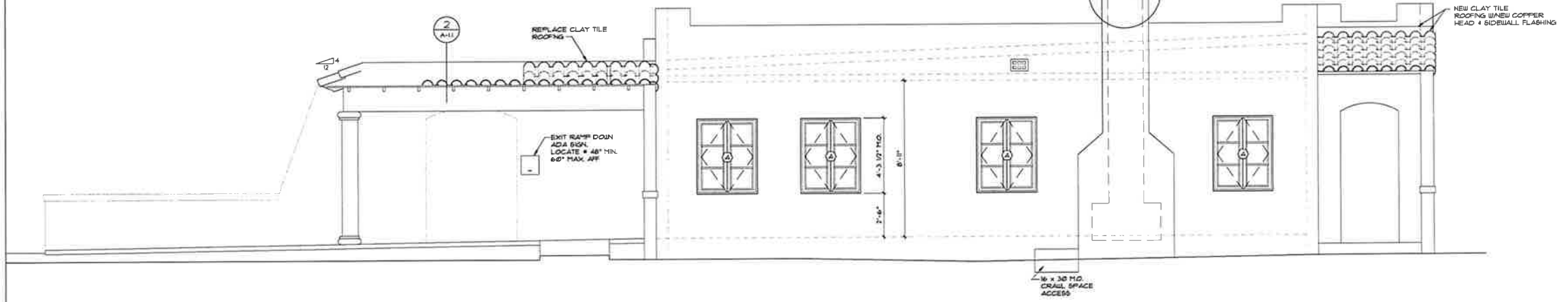
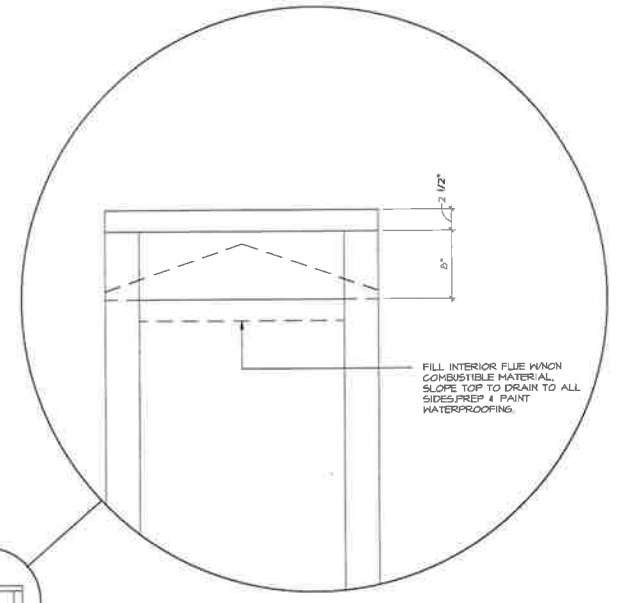
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Commission No.		
Date 08.22.25		
Scale As Noted		
Drawn by Lucie R. Lane		
Checked by Doug Lane		
Sheet No. of		

Exterior Elevations

A-1.3



1 SOUTH ELEVATION
A-1.3 SCALE: 3/8" = 1'-0"



2 NORTH ELEVATION
A-1.3 SCALE: 3/8" = 1'-0"

GENERAL NOTES:

STUCCO/MASONRY SURFACES:

1. LOW PRESSURE CLEANING/SCRUB EXTERIOR SURFACES WITH NATURAL BRISTLE TO REMOVE CHALKING, MOLD, MILDEW AND STAINS.
2. INVESTIGATE ALL SUB-SURFACE STRUCTURAL DAMAGE TO THE HOLLOW CLAY TILE WALL BRICKS CREATED BY EXISTING STORM SHUTTER TRACKS OVER AND UNDER EACH WINDOW AND DOOR OPENING. REMOVE ANY FRACTURED & LOOSE CLAY TILE SHELL PIECE. PATCH CONDITIONS TO PROVIDE A SOLID SUB-SURFACE, AND PATCH STUCCO TO MATCH THE EXISTING TEXTURE. PATCH ALL CRACKS, CHIPS AND WALL SURFACES MODIFIED TO INSTALL NEW ROOF FLASHING, AND OR NEW MEMBRANE @ PARAPET WALLS.
3. SMALL CRACKS THAT ARE NON STRUCTURAL WITH SOLID SUBSURFACE BASE CAN BE FILLED WITH SHERWIN WILLIAMS ELASTOMERIC PATCHING COMPOUND.
4. PATCH STUCCO FINISH TO MATCH AROUND EACH WINDOW & DOOR MASONRY OPENING THAT HAS BEEN MODIFIED AS REQUIRED TO PROVIDE STRUCTURAL ATTACHMENT FOR THE NEW IMPACT PRODUCT INSTALLATION. SEE STRUCTURAL DWGS. FOR NOTES.

EXTERIOR FINISHES:

STUCCO: SHERWIN WILLIAMS PRODUCTS

1. REPAINT SEALER - LOXON ACRYLIC CONDITIONER ON EXISTING SURFACES, LX03V0100 - LXN CONDITION CLR. NOTES: CLEAR OR GUIDE COAT AVAILABLE.
2. RAIN STUCCO PRIMER - LOXON CONCRETE & MASONRY PRIMER - SEALER FOR NEW STUCCO SURFACES, LX02M0250 - LXN C4M PRIMER WH. NOTES: SPOT PRIMER FOR ANY RAIN AREAS.
3. FINISH - LOXON - SELF-CLEANING ACRYLIC COATING (2) TOP COATS - COLOR: TBD, FLAT FINISH, LX13M0051 - LXN SELF-CLEAN EX.

PARAPET & WALL CAP:

1. WATERPROOFER - CONPLEX FLEXIBLE CONCRETE WATERPROOFER- SMOOTH, GF14M0051 - CNFLX WP SM EX.

METALS:

1. PRIMER - SHERWIN WILLIAMS B66M01310 - PI PROCRYL PR OF W
2. FINISH - SHERWIN WILLIAMS B53M02251 - PI WD ALK UR LS EX

NOTES: LOW SHEEN, S/S, OR GLOSS AVAILABLE.

WOOD - EXTERIOR:

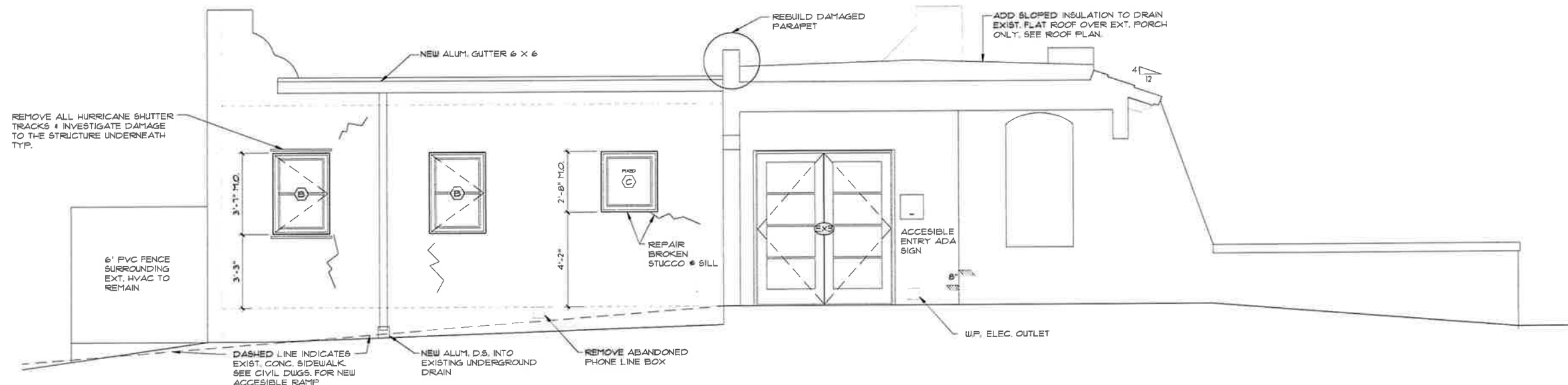
1. PRIMER - SHERWIN WILLIAMS B5M00620 - PREPRITE PROBLOCK INTERIOR/EXTERIOR LATEX PRIMER/SEALER WHITE.
2. FINISH - SHERWIN WILLIAMS LX13M0051 - LXN SELF-CLEAN NEW.

EXTERIOR CAULKING:

1. CAULKING: LXSHD010 - SJ IH WHITE 10J OZ. - LOXON HI ONE COMPONENT LOW MODULUS HYBRID SEALANT.

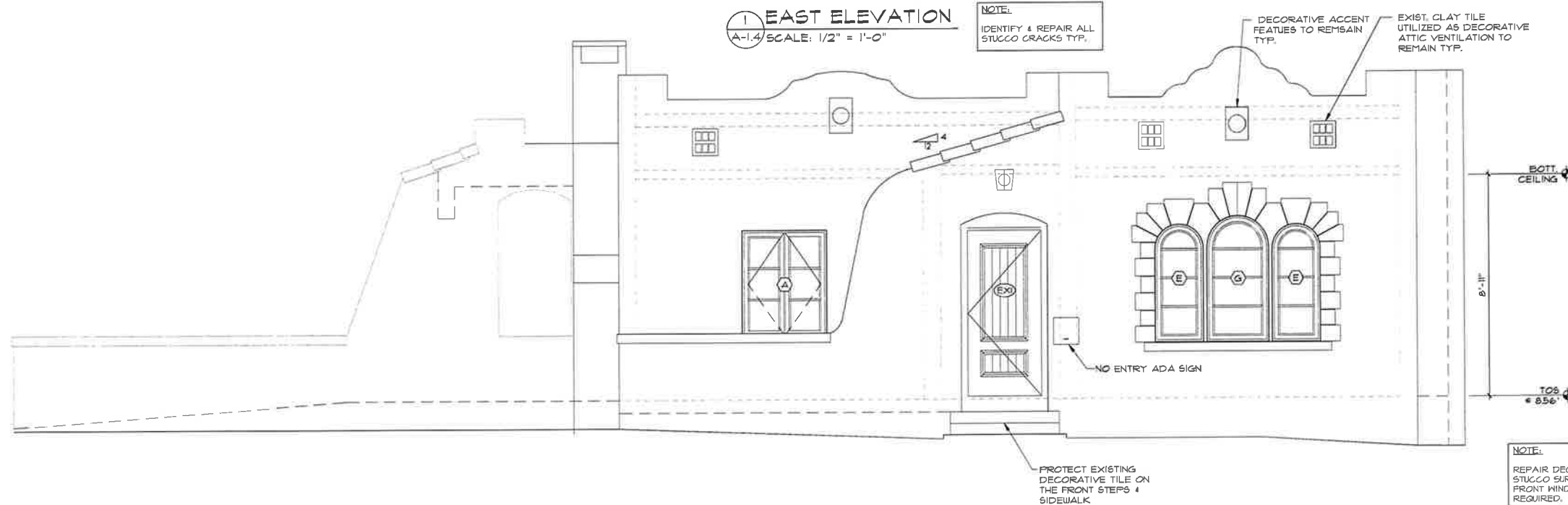
CONCRETE PATIO:

1. SHERWIN WILLIAMS - ARMORSEAL TREAD - FLEX WITH PRIMER.



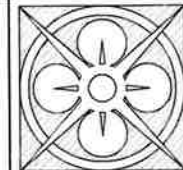
1 EAST ELEVATION
A-1.4 SCALE: 1/2" = 1'-0"

NOTE:
IDENTIFY & REPAIR ALL STUCCO CRACKS TYP.



2 WEST ELEVATION
A-1.4 SCALE: 1/2" = 1'-0"

NOTE:
REPAIR DECORATIVE STUCCO SURROUND OF FRONT WINDOW AS REQUIRED.



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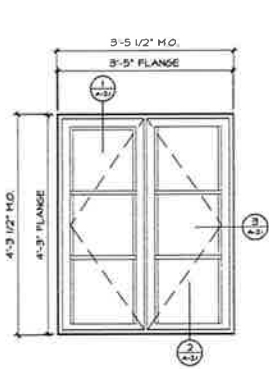


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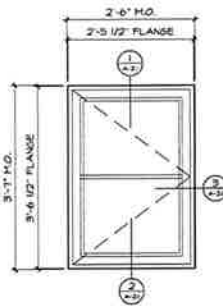
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Drawn by	Lucile R. Lane
Checked by	Doug Lane
Sheet No.	of

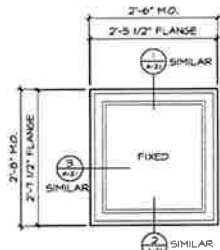
Exterior Elevations



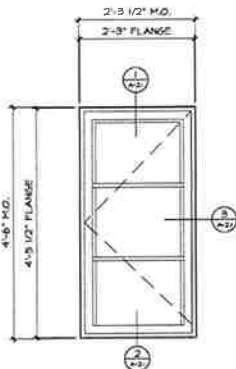
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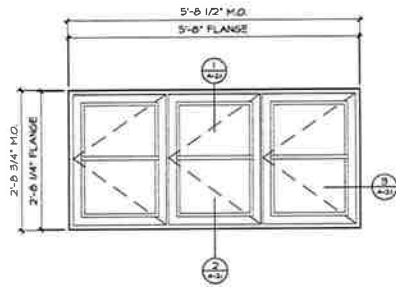
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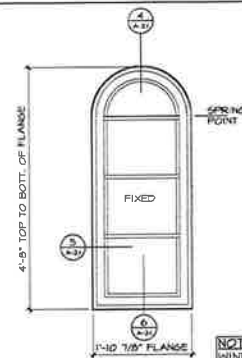
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QUANTITY: 1



QUANTITY: 1

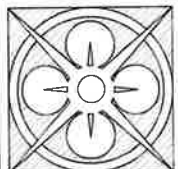


QUANTITY: 2



QUANTITY: 1

NOTE: WINDOW DIMENSIONS ARE OUT TO OUT FLANGES TYP.



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House
Evergreen
Park
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Checked by	Doug Lane	
Sheet No.	of	

Window & Door
Elevations

A-2.0

1 A-WINDOW ELEV.
A-2.0 SCALE: 3/4" = 1'-0"

2 B-WINDOW ELEV.
A-2.0 SCALE: 3/4" = 1'-0"

3 C-WINDOW ELEV.
A-2.0 SCALE: 3/4" = 1'-0"

4 D-WINDOW ELEV.
A-2.0 SCALE: 3/4" = 1'-0"

5 E-WINDOW ELEV.
A-2.0 SCALE: 3/4" = 1'-0"

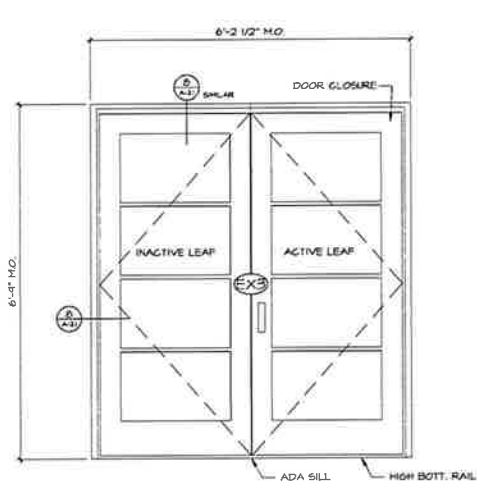
6 F-WINDOW ELEV.
A-2.0 SCALE: 3/4" = 1'-0"

7 G-WINDOW ELEV.
A-2.0 SCALE: 3/4" = 1'-0"

WINDOW SCHEDULE								
TYPE	FRAME WIDTH	FRAME HEIGHT	M.O. WIDTH	M.O. HEIGHT	JAMB	QUANTITY	TYPE	REMARKS
A	3'-5"	4'-3"	3'-5 1/2"	4'-3 1/2"	2 3/8"	1	CASEMENT	2-UNITS MILLED TOGETHER @ FACTORY
B	2'-5 1/2"	3'-6 1/2"	2'-6"	3'-7"	2 3/8"	2	CASEMENT	
C	2'-5 1/2"	2'-1 1/2"	2'-6"	2'-8"	2 3/8"	1	FIXED	FROSTED GLASS BATHROOM
D	2'-3"	4'-5 1/2"	2'-3 1/2"	4'-6"	2 3/8"	1	CASEMENT	TEMPERED GLASS
E	5'-8"	2'-8 1/4"	5'-8"	2'-8 3/4"	2 3/8"	1	CASEMENT	INDIVIDUAL UNITS, MILLED TOGETHER ON SITE, SHIP SEPARATELY.
F	1'-11 1/8"	4'-8 1/2"	1'-11 5/8"	4'-4"	2 3/8"	2	FIXED	INDIVIDUAL UNITS, MILLED TOGETHER ON SITE, SHIP SEPARATELY.
G	2'-5 1/8"	5'-0 1/2"	2'-6 3/8"	5'-1"	2 3/8"	1	FIXED	INDIVIDUAL UNITS, MILLED TOGETHER ON SITE, SHIP SEPARATELY.

WINDOW SPECIFICATIONS:

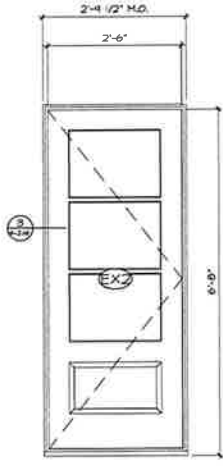
1. MANUFACTURER - ES WINDOWS LLC, - SERIES ES 5000/ES-5100- ESW ELITE-ALUMINUM-NOA No. 23-0717.25 OPERATING CASEMENTS AND FIXED.
2. LAMINATED CLEAR GLASS.
3. COLOR: BOTH INTERIOR AND EXTERIOR ANODIZED, BRONZE ESW KYNAR (2605)
4. PUTTY MUNTINS.
5. STAINLESS STEEL HINGES.
6. FRAME: 1/2" FLANGE.
7. NO SCREENS.



9 DOOR #EX-3 ELEV.
A-2.0 SCALE: 3/4" = 1'-0"

EX 3 - DOOR SPECIFICATIONS: N.O.A., # 23-0724J2

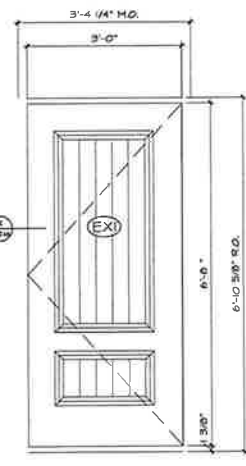
MANUFACTURER - ES WINDOWS LLC,
SERIES: ES 9000- ALUMINUM OUTSWINGING, ENTRANCE DOOR.
FINISH: COLOR: BRONZE INSIDE & OUT - W/KYNAR (2605)
GLASS: 1/4" CLEAR HS + 0.04 PVB CLEAR + 1/4" CLEAR HS.
CLOSER, YES
MUNTINS: YES - OSCE
OPENING: RIGHT SIDE-ACTIVE.
SILL: ADA
BOTT. RAIL: HIGH BOTT RAIL - 2 1/2" WIDE STYLES'
HINGES: 3-PIECE HINGE - STAINLESS STEEL HARDWARE
HANDLES: LEVER OR ADA LOOP-PUSH/PULL.



10 DOOR #EX-2 ELEV.
A-2.0 SCALE: 3/4" = 1'-0"

EX 2 - DOOR SPECIFICATIONS: FL, PRODUCT # FL-15210.4

MANUFACTURER - PLASTPRO, INC.,
FL, PRODUCT # - FL-15210.4
PRODUCT - DRAZP-3V3 ALAMINATED CLEAR GLASS
RUSTIC-FIR GRAIN OUTSWING DOOR W/POLY FIBER JAMBS
"ENDURA" (Z-SERIES) THRESHOLD,
ACCESSORIES -
A. BLACK HANDSET & DEAD BOLT.
B. ACCG6STP1B - HINGE STRAP (2) COLOR-BLACK
C. INCLUDE STAINING KIT FROM MANUFACTURER AND THE LOCAL DEALER W/STAIN PRIOR TO ASSEMBLING HARDWARE.

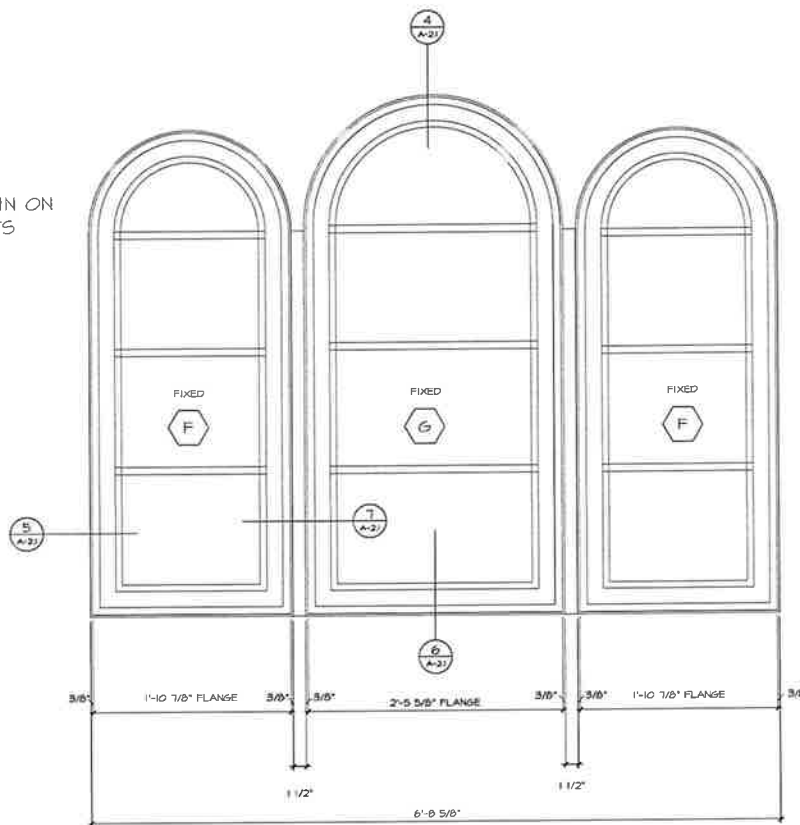


11 DOOR #EX-1 ELEV.
A-2.0 SCALE: 3/4" = 1'-0"

EX 1 - DOOR SPECIFICATIONS: FL, PRODUCT # FL-15210-RIO

MANUFACTURER - PLASTPRO, INC.,
FL, PRODUCT # - FL-15 210-RIO
PRODUCT - DRAZP 306B
FIBERGLASS EXTERIOR IN-SWINGING 1 3/4" THICK 2 PANEL FIR GRAIN
"RUSTIC" W/COLUMBIA IN SWING SILL W/POLY FIBER JAMBS.
ACCESSORIES -
A. BLACK HANDSET & DEAD BOLT
B. ACCG6STP1B - HINGE STRAPS (3) COLOR-BLACK
C. ACCSPRYO10KIT INDUSTRIAL SPEAKEASY COLOR: BLACK
D. BLACK WEATHERSTRIPPING
E. INCLUDE STAINING KIT FROM MANUFACTURER AND THE LOCAL DEALER W/STAIN PRIOR TO ASSEMBLING HARDWARE.

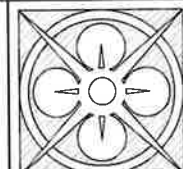
NOTE:
ALIGN MUNTIN ON
ALL (3) UNITS



8 F & G-WINDOW ELEV.
A-2.0 SCALE: 1 1/2" = 1'-0"

NOTE: MASONRY OPENINGS & FRAME DIMENSIONS FOR THE EXTERIOR WINDOWS & DOOR NOTES

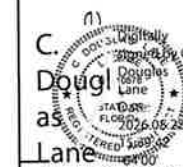
THE DIMENSIONS PROVIDED FOR ALL THE WINDOWS & DOORS ARE FOR BIDDING PURPOSES ONLY.
EACH OPENING MUST RECEIVE REMEDIAL REINFORCEMENT OF THE EXISTING HEAD, SILL & JAMB CONDITIONS AS PRESCRIBED IN THE STRUCTURAL ENGINEERING DRAWINGS. THE EFFORT MAY ALTER THE EXISTING M.O. SLIGHTLY FROM OUR FIELD MEASUREMENTS, THEREFORE IT IS RECOMMENDED TO NOT ORDER ANY NEW WINDOWS & DOORS UNTIL THE NEW BUCKS & WATERPROOFING IS IN PLACE TO ENSURE PROPER CLEARANCES ARE VERIFIED BY THE CONTRACTOR. FINAL WINDOW & DOOR FRAME DIMENSIONS SHALL BE PROVIDED BY THE CONTRACTOR AND BE THE RESPONSIBILITY OF THE CONTRACTOR.



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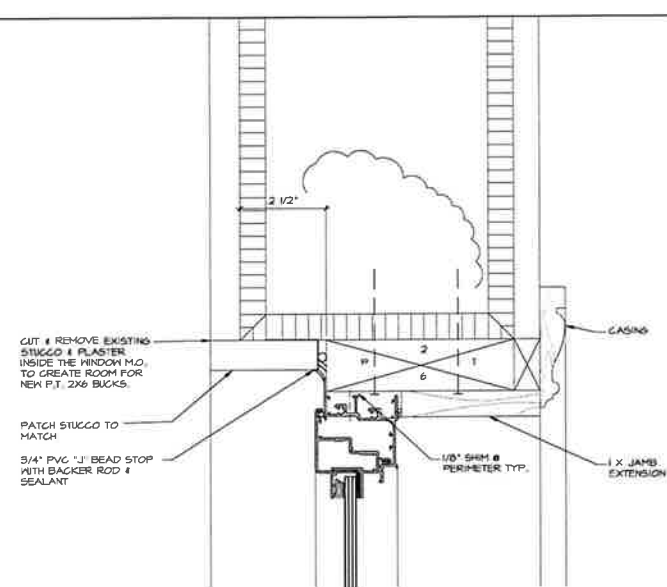
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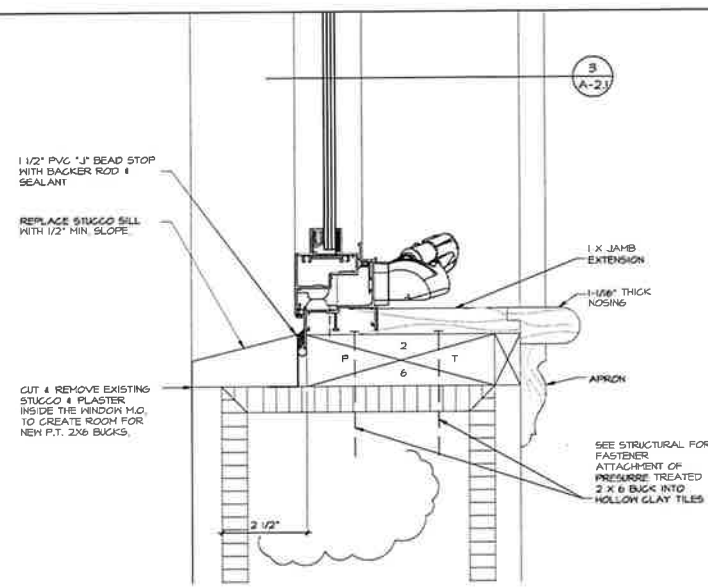
Commission No.
Date 08/22/08
Scale As Noted
Drawn by Lucia B. Lann
Checked by Doug Lane
Sheet No. 1f

Window & Door
Details

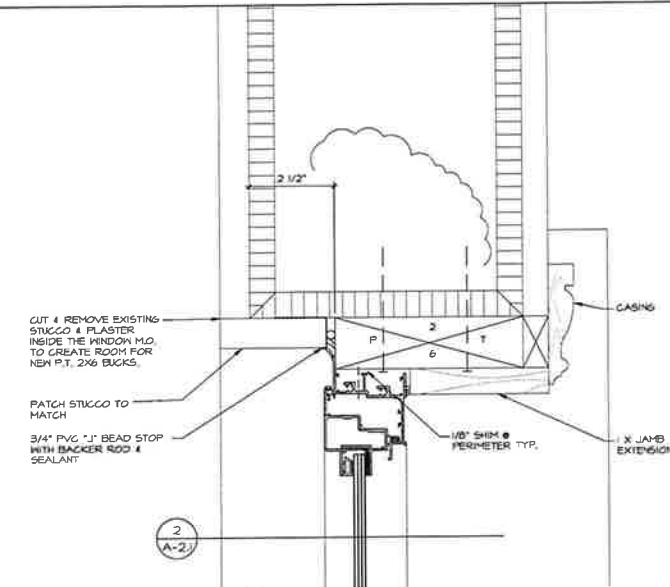
A-2.1



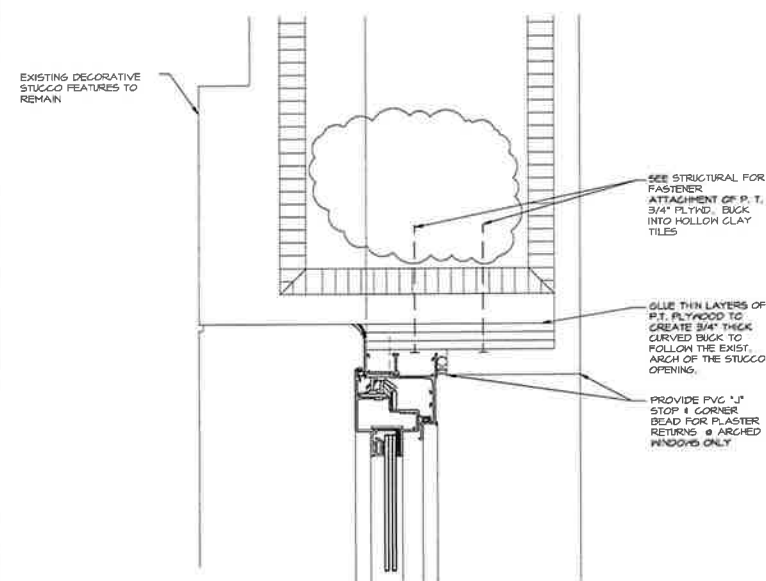
1 HEAD DETAIL-CASEMENT
A-2/ SCALE: 6" = 1'-0"



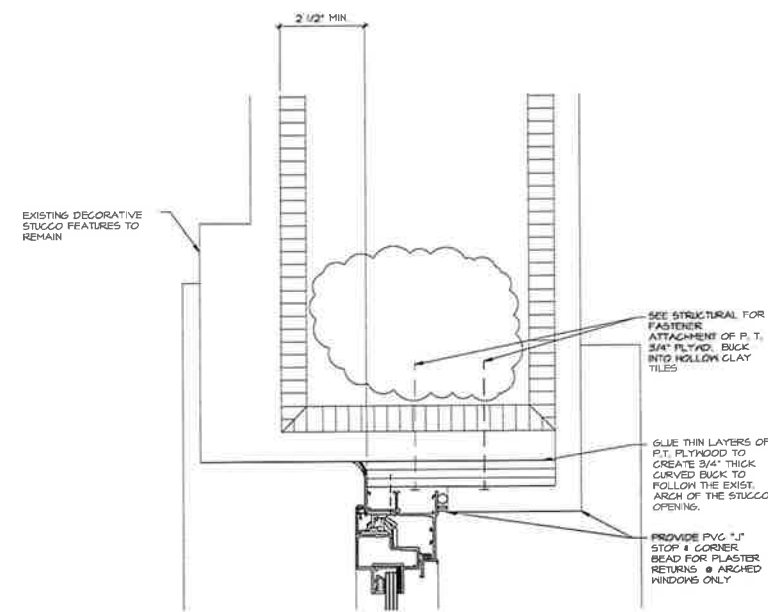
2 SILL DETAIL-CASEMENT
A-2/ SCALE: 6" = 1'-0"



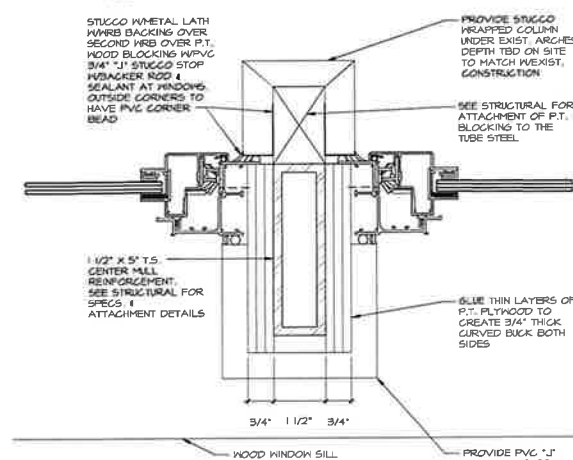
3 JAMB DETAIL-CASEMENT
A-2/ SCALE: 6" = 1'-0"



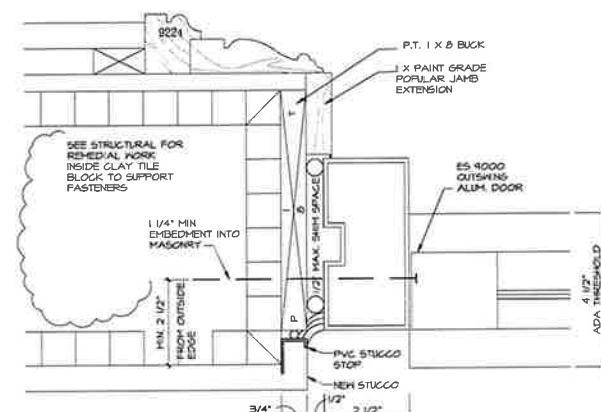
4 HEAD DETAIL-ARCHED FIXED WND.
A-2/ SCALE: 6" = 1'-0"



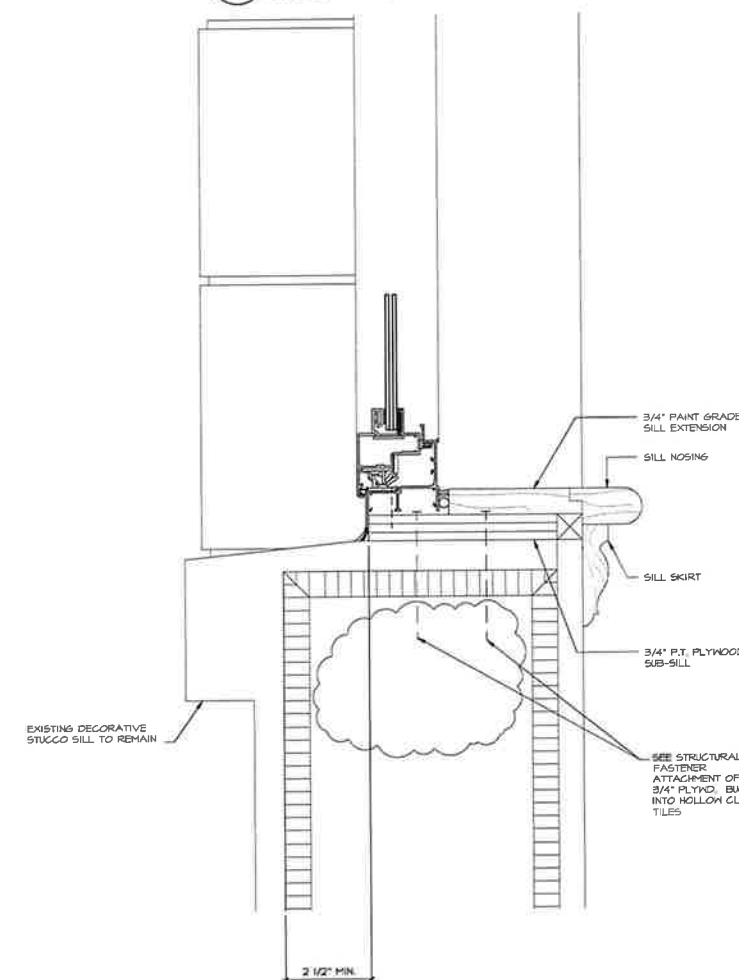
5 JAMB DETAIL-ARCHED FIXED WND.
A-2/ SCALE: 6" = 1'-0"



7 CENTER MULL-ARCHED FIXED WND.
A-2/ SCALE: 6" = 1'-0"



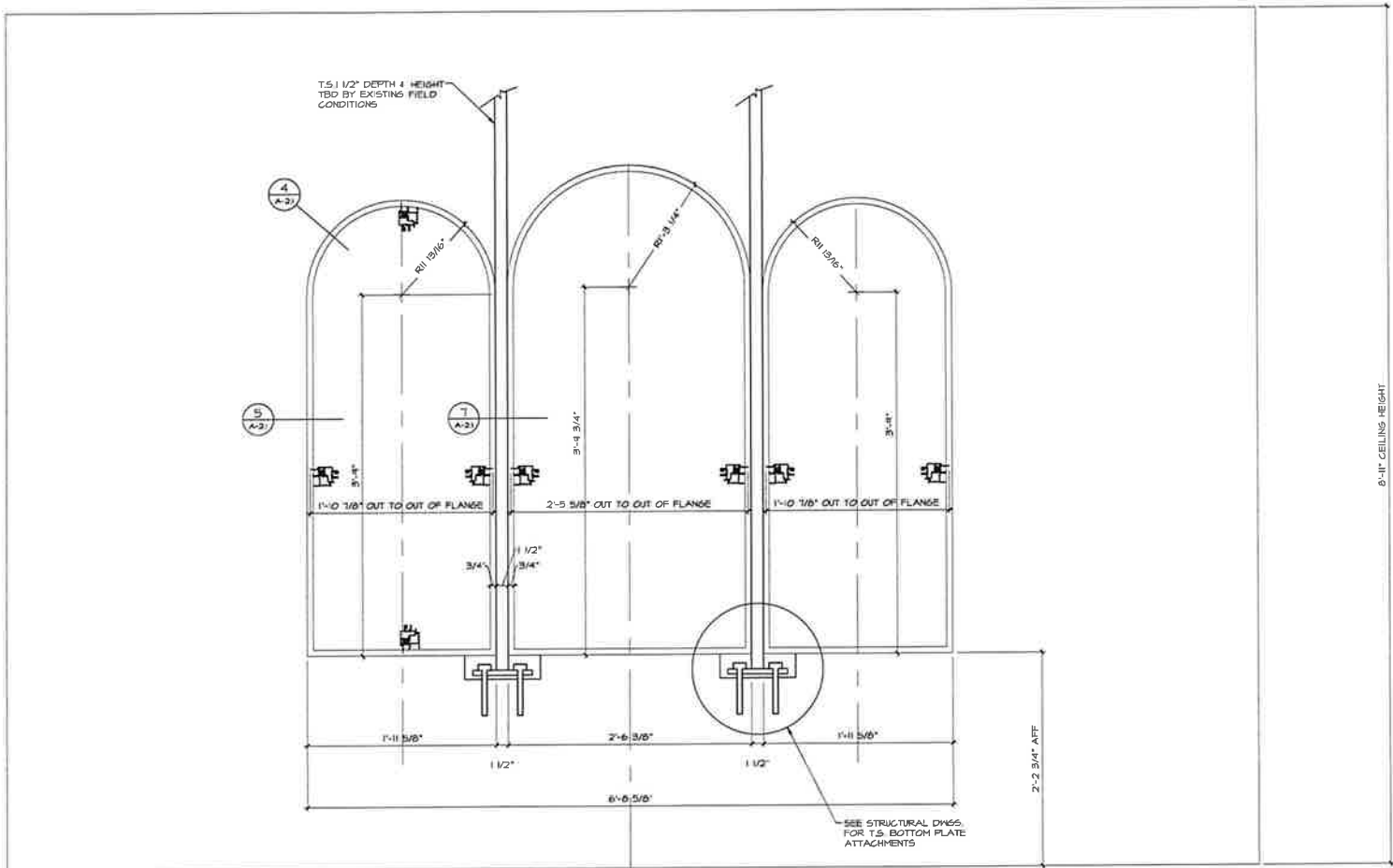
ES-9000 OUTSWINGING ALUM. DOOR
8 JAMB & HEAD DETAIL
A-2/ SCALE: 6" = 1'-0"



6 JAMB DETAIL-ARCHED FIXED WND.
A-2/ SCALE: 6" = 1'-0"

NOTE:

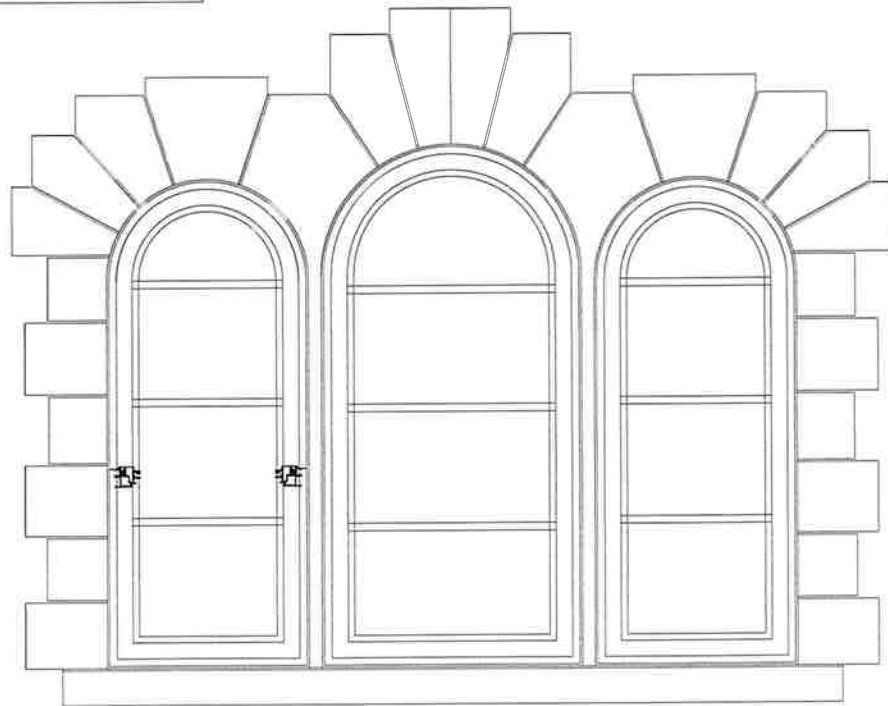
ALL BUCKS SHALL BE WEATHER PROOFED UTILIZING "PROSOCCO" FAST FLASH & R-GUARD JOINT & SEAM FILLER OR EQUAL



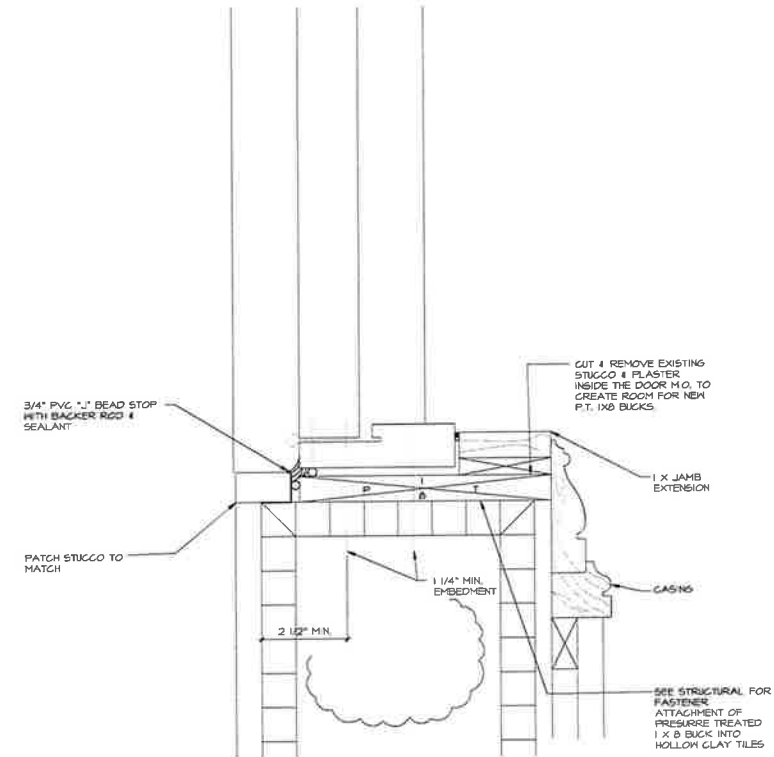
1 WINDOW F & G DETAILS
A-2.1a SCALE: 1 1/2" = 1'-0"

NOTES:

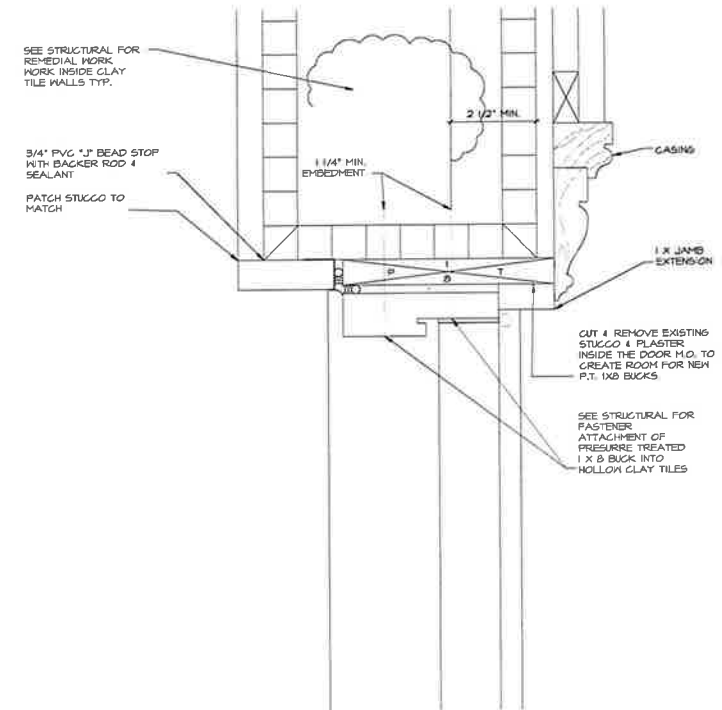
CONTRACTOR TO INVESTIGATE THE EXISTING CONSTRUCTION OVER THE ARCHES FROM THE INSIDE WITHOUT DAMAGING THE EXTERIOR STUCCO DECORATIVE FEATURES & THE REPORT TO STRUCTURAL ENGINEERS FOR ADDITIONAL DETAILS. THE INTENT IS TO INSTALL 1 1/2" TUBE STEEL LATERAL SUPPORTS BETWEEN THE ARCHED WINDOWS.



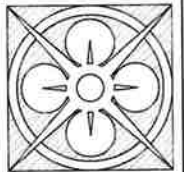
2 EXISTING DECORATIVE STUCCO
A-2.1a SCALE: 1 1/2" = 1'-0"



3 JAMB DETAIL FOR DOOR EX-2 - OUTSWING
A-2.1a SCALE: 6" = 1'-0"



4 JAMB DETAIL FOR DOOR EX-1 - INSWING
A-2.1a SCALE: 6" = 1'-0"



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Preservation Improvements for
Park Historic Evergreen House
601 Federal Highway
Lake Park, FL 33403-2603



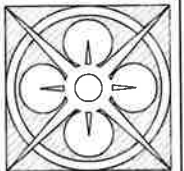
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Date	08-22-25
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Checked by	Doug Lane
Sheet No.	of

Window & Door
Details

A-2.1a



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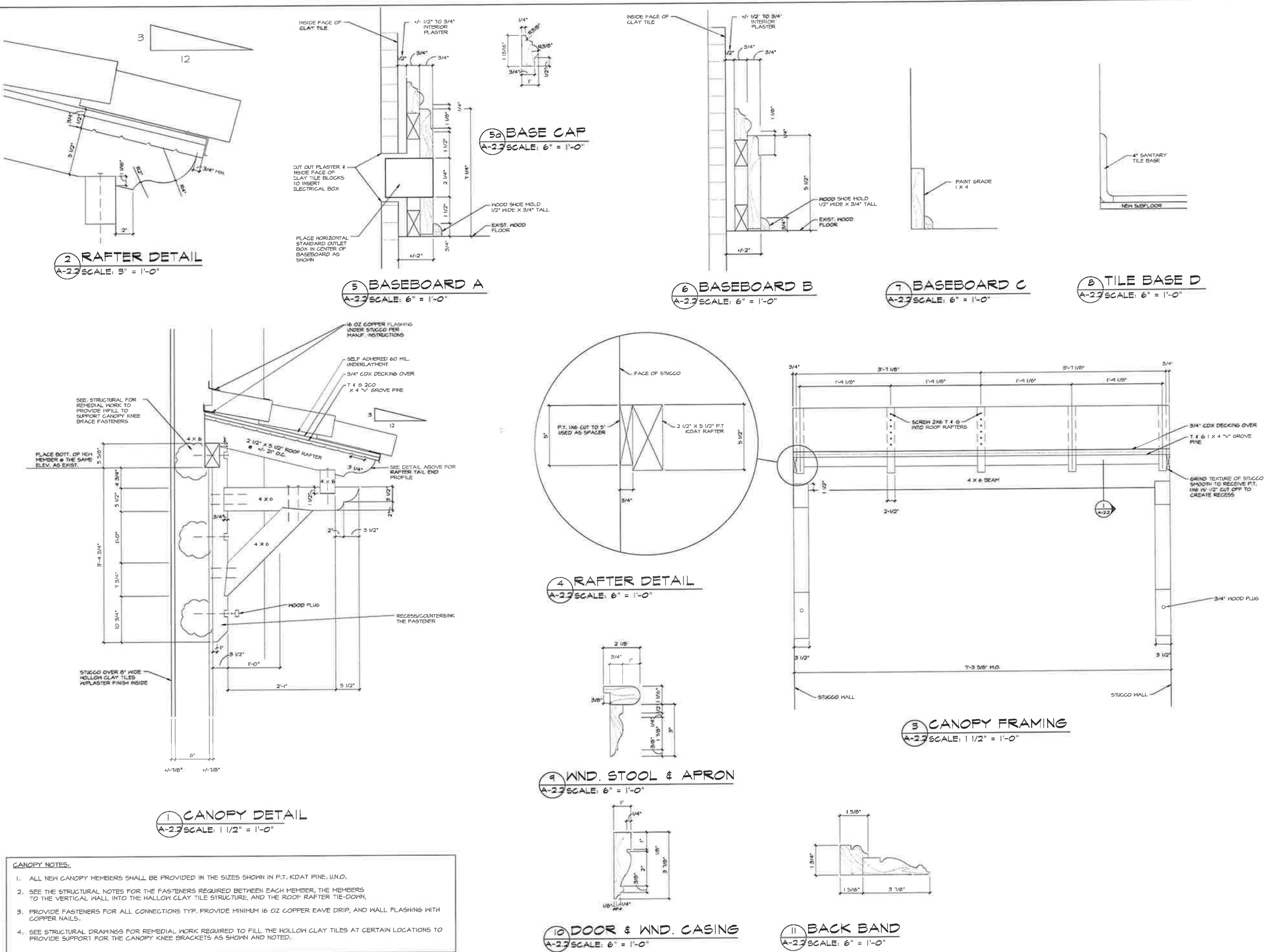
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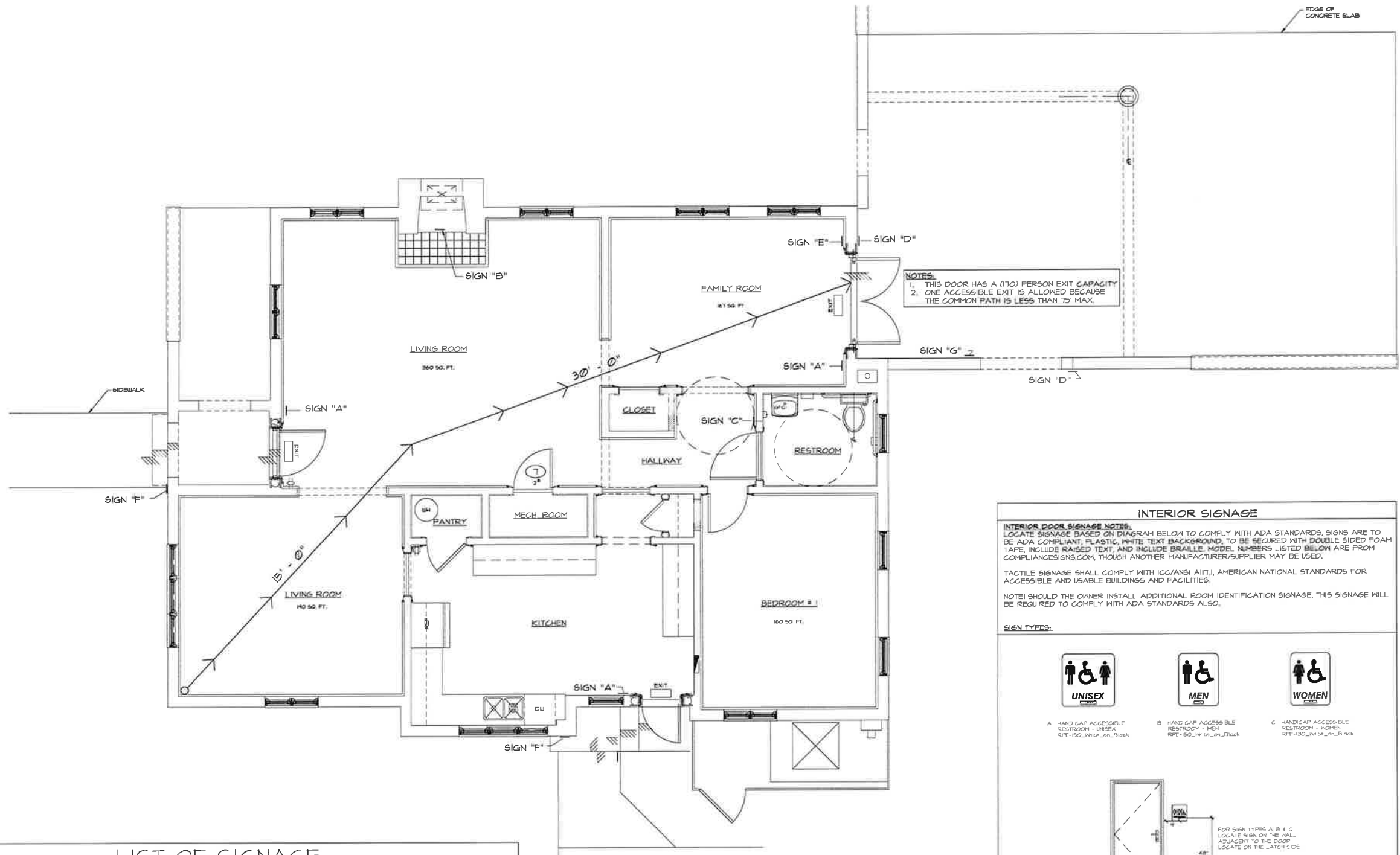
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Commission No.
Date 08/22/26
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Checked by Doug Lane
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Details

A-2.2





LIST OF SIGNAGE		
REF	QTY.	TYPE OF SIGN
A	3	OCCUPANCY LOAD ALLOWED 30 PEOPLE MAX.
B	1	FIREPLACE IS BLOCKED. DO NOT USE FIREPLACE
C	1	ACCESSIBLE RESTROOM
D	2	ACCESSIBLE ENTRANCE
E	1	ACCESSIBLE EXIT
F	2	INACCESSIBLE ENTRANCE
G	1	ACCESSIBLE EXIT W/RAMP

1 LIFE SAFETY & SIGNAGE PLAN
A-2.3 SCALE: 3/8" = 1'-0"

SEE ELECTRICAL ENGINEERING DRAWINGS FOR EXIT SIGNS & EMERGENCY LIGHTING FIXTURE LOCATIONS.

INTERIOR SIGNAGE

INTERIOR DOOR SIGNAGE NOTES:
LOCATE SIGNAGE BASED ON DIAGRAM BELOW TO COMPLY WITH ADA STANDARDS. SIGNS ARE TO BE ADA COMPLIANT, PLASTIC, WHITE TEXT BACKGROUND, TO BE SECURED WITH DOUBLE SIDED FOAM TAPE. INCLUDE RAISED TEXT, AND INCLUDE BRAILLE. MODEL NUMBERS LISTED BELOW ARE FROM COMPLIANCE SIGNS.COM, THOUGH ANOTHER MANUFACTURER/SUPPLIER MAY BE USED.

TACTILE SIGNAGE SHALL COMPLY WITH ICC/ANSI A117.1, AMERICAN NATIONAL STANDARDS FOR ACCESSIBLE AND USABLE BUILDINGS AND FACILITIES.

NOTE! SHOULD THE OWNER INSTALL ADDITIONAL ROOM IDENTIFICATION SIGNAGE, THIS SIGNAGE WILL BE REQUIRED TO COMPLY WITH ADA STANDARDS ALSO.

SIGN TYPES:

A - HANDICAP ACCESSIBLE RESTROOM - UNISEX
RPT-150-UN1A-en-11-gen

B - HANDICAP ACCESSIBLE RESTROOM - MEN
RPT-150-UN1A-en-11-black

C - HANDICAP ACCESSIBLE RESTROOM - WOMEN
RPT-150-UN1A-en-11-black

FOR SIGN TYPES A B & C
LOCATE SIGN ON "X" SIDE
ADJACENT TO THE DOOR
LOCATE ON THE "X" SIDE

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601 Federal Highway
Lake Park, FL 33403-2603

Digitally signed by C. Douglas Lane
Date: 2025.08.22
Time: 10:00:00
Reason: I am the author

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Drawn by: Lucia R. Lane
Checked by: Doug Lane
Sheet No. of

Life Safety & Signage Plan

A-2.3

DESIGN SPECIFICATIONS

DESIGN CODE 2023 FLORIDA BUILDING CODE (FBC) WITH LATEST SUPPLEMENTS

OCCUPANCY RESIDENTIAL

CONSTRUCTION TYPE V UNREINFORCED

BASIC WIND SPEED V_1 : 130 MPH V_{100} : 130.9 MPH

RISK CATEGORY II

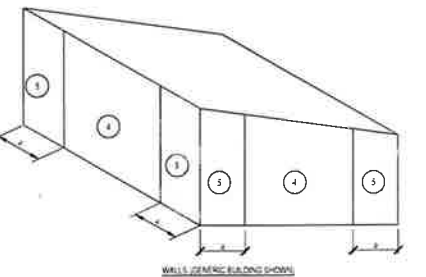
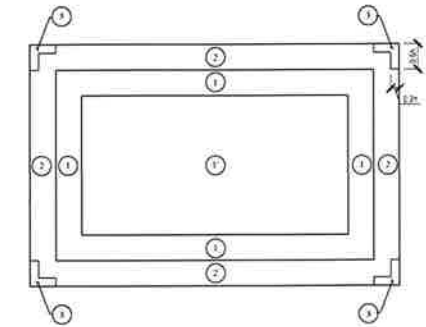
WIND EXPOSURE D

INTERNAL PRESSURE COEFFICIENT $+/- 0.18$ ENCLOSURE BUILDING

COMPONENT & CLADDING DESIGN		
WIND PRESSURES (PSF)		
ROOF		
ZONE	19	AREA (SF)
NEG 1	-12.9	-56.4
NEG 2	-12.9	-56.4
POSITIVE ALL ZONES	+15.9	+24.4
WALLS		
ZONE	19	AREA (SF)
NEG 4	-15.9	-45.0
NEG 5	-15.9	-45.0
POSITIVE ALL ZONES	+15.9	+24.4

NOTES

- TABLE PRESSURES ARE FOR THE SQUARE FOOT (SF) TRIANGULAR AREA SHOWN FOR OTHER TRIANGULAR AREAS. LINEARLY INTERPOLATE BETWEEN VALUES SHOWN ABOVE.
- POSITIVE PRESSURES ACT TOWARD THE BUILDING. NEGATIVE PRESSURES ACT AWAY FROM THE BUILDING.
- SEE DIAGRAMS FOR ZONE LOCATIONS.
- ALL PRESSURES SHOWN IN ARE ULTIMATE PRESSURES.
- TO OBTAIN ALLOWABLE WIND PRESSURE VALUES, MULTIPLY VALUES SHOWN ON TABLE BY 0.8 WIND.



DESIGN LIVE LOADS

ROOF 20 PSF

FLOORS 40 PSF

DESIGN DEAD LOADS

ROOF 15 PSF

FLOORS 15 PSF

GENERAL NOTES:

- CODES USED: 2023 FLORIDA BUILDING CODE (FBC) WITH LATEST SUPPLEMENTS
- ALL DESIGN, CONSTRUCTION AND MATERIALS SHALL BE IN ACCORDANCE WITH APPLICABLE CODES AND AUTHORITIES HAVING JURISDICTION OVER THE WORK.
- CONTRACTOR SHALL VERIFY DIMENSIONS AND CONDITIONS AT THE JOB SITE PRIOR TO COMMENCING CONSTRUCTION.
- DETAILS FOUND WITHIN THESE DRAWINGS SHALL BE ASSUMED TO BE TYPICAL DETAILS FOR THIS JOB ONLY. DETAILS SHALL GOVERN CONSTRUCTION FOR THIS JOB UNLESS OTHERWISE NOTED ON THE PLANS.
- DIMENSIONS ARE SHOWN FOR REFERENCE ONLY. REFER TO ARCHITECTURAL PLANS FOR ALL DIMENSIONS. IF DIMENSIONS CANNOT BE DETERMINED FROM THE ARCHITECTURAL PLANS, CONTACT THE ENGINEER OF RECORD.

WATERPROOFING

IT SHOULD BE NOTED THAT THE EOR IS NOT A WATER PROOFING EXPERT. THE FLASHING AND WATER INTRUSION PROTECTION ELEMENTS FOR THE STRUCTURE ARE THE RESPONSIBILITY OF THE ARCHITECT OF RECORD.

CONCRETE

- CONCRETE SHALL BE IN ACCORDANCE WITH FBC & ACI.
- CAST-IN-PLACE CONCRETE SHALL HAVE A 28 DAY MINIMUM COMPRESSIVE STRENGTH OF 4,000 PSI.
- NO WATER SHALL BE ADDED TO THE CONCRETE AFTER THE TRUCK HAS LEFT THE BATCH PLANT WITHOUT AUTHORIZATION FROM THE ENGINEER-OF-RECORD (EOR). UNLESS THE DELIVERY TICKET INDICATES AN AMOUNT OF WATER THAT IS ALLOWED TO BE ADDED AT THE JOB SITE AFTER AUTHORIZATION BY THE TESTING LAB REPRESENTATIVE.
- CONCRETE MIX DESIGN SHALL BE SUBMITTED TO THE STRUCTURAL EOR FOR REVIEW & APPROVAL. SUBMITTALS SHALL INCLUDE CERTIFICATES FROM AGGREGATES, ADMIXTURES AND CEMENTITIOUS MATERIALS.
- CONCRETE ADMIXTURES SHALL NOT CONTAIN ANY CALCIUM CHLORIDE.
- CONCRETE SHALL BE NOMINAL WEIGHT (1) AND CONCRETE WITH A MINIMUM OF 3% AIR ENTRAINMENT.
- FLY ASH (ASTM C618) OR SILICA FUME (ASTM C1240) MAY BE SUBSTITUTED FOR UP TO 45% OF THE PORTLAND CEMENT (ASTM C150) TYPE III. FLY ASH SHALL NOT EXCEED 25% OF CEMENTITIOUS MATERIALS.
- MAKING-A-WATER TO CEMENT (W/C) RATIO SHALL BE 0.51 OR LESS.
- CONTRACTOR SHALL ENGAGE A QUALIFIED TESTING & INSPECTING AGENCY ACCEPTABLE TO THE OWNER TO PERFORM FIELD TESTS, INSPECTIONS AND PREPARE TEST REPORTS.
- TESTING AGENCY SHALL SUBMIT THE FOLLOWING FOR EACH MIX:
- SLUMP PER ASTM C143 FOR EACH TRUCK LOAD.
- AIR CONTENT PER ASTM C231 FOR THE FIRST AND EACH FIFTH TRUCK AFTER THAT.
- TEMPERATURE PER ASTM C106 FOR EACH TRUCK.
- STRENGTH PER ASTM C31 FOR EACH MIX DESIGN THAT DAY & FOR EVERY 50 CYD OF CONCRETE PLACED EACH DAY.

STEEL REINFORCEMENT

- STEEL REINFORCEMENT SHALL BE IN ACCORDANCE WITH FBC ACI 318 AND AS NOTED IN THESE PLANS.
- STEEL REINFORCEMENT SHALL BE ASTM A615, GRADE 60.
- CONCRETE COVER SHALL BE IN ACCORDANCE WITH FBC AND AS FOLLOWS:
 - 3" FOR CONCRETE CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH.
 - 2" FOR CONCRETE EXPOSED TO WEATHER OR IN CONTACT WITH GROUND.
 - 1 1/2" FOR CONCRETE NOT EXPOSED TO WEATHER OR IN CONTACT WITH GROUND.
- VERTICAL AND HORIZONTAL REINFORCEMENT WILL BE LAPPED FOR 36 BAR DIAMETERS OR 24" WHICHEVER IS GREATER. CORNER REINFORCEMENT SHALL BE LAPPED 36".
- ALL REINFORCING STEEL SHALL BE PLACED IN ACCORDANCE WITH THE TYPICAL BENDING DIAGRAMS AND PLACING DETAILS OF ACI STANDARDS.
- ALL REINFORCING STEEL SHALL BE HELD SECURELY IN POSITION WITH STANDARD ACCESSORIES DURING PLACING OF CONCRETE.
- SPLICES IN REINFORCING WHERE PERMITTED SHALL BE AS FOLLOWS: MASONRY 48 BAR DIAMETER.

WOOD

- WOOD FRAMING SHALL BE IN ACCORDANCE WITH FBC EXCEPT AS NOTED IN THESE PLANS.
- THE FLOOR ASSEMBLY (INCLUDING POSTS, JOISTS AND SUB-FLOORS) FOR THE FOLLOWING CONDITIONS SHALL BE PRESSURE TREATED:
 - WOOD JOISTS CLOSER THAN 16" TO THE EXPOSED GROUND.
 - THE BOTTOM OF WOOD STRUCTURAL FLOORS WITHOUT JOISTS ARE CLOSER THAN 16" TO EXPOSED GROUND.
 - WOOD JOISTS GRADERS CLOSER THAN 12" TO THE EXPOSED GROUND.
 - UNEXCAVATED AREAS LOCATED WITHIN THE PERIMETER OF THE BUILDING FOUNDATION.
 - ALL WOOD IN DIRECT CONTACT WITH CONCRETE OR MASONRY.

ALL PRESSURE TREATED WOOD (IE FLOOR JOISTS, BATTEN TABLE, ETC) SHALL BE PROTECTED FROM TOUCHING TRUSS PLATES, TRUSS HANGERS, ETC WITH (1) 1/2" x 1/2" x 1/2" FELT OR APPROVED EQUIV.

SUB-FLOORS

WHERE SUB-FLOORING IS INDICATED ON THESE PLANS, USE 3/4" TAG PLYWOOD GLED WITH A CONSTRUCTION ADHESIVE AND FASTENED PER FBC.

ROOF AND CEILING FRAMING

- ROOF ASSEMBLIES SHALL BE IN ACCORDANCE WITH FBC.
- ALL CONVENTIONAL FRAMING SHALL BE SYP #2.

ROOF SHEATHING AND DIAPHRAGM ATTACHMENT

USE MIN 2" APA RATED SHEATHING FASTENED W/ 100 RINGSHANK NAILS @ 6" OC EDGES, 8" OC INTERMEDIATE.

METAL CONNECTORS

- ALL METAL CONNECTORS SHALL BE SIMPSON STRONG-TIE CONNECTORS UNLESS OTHERWISE APPROVED BY THE ENGINEER OF RECORD (EOR).
- ALL METAL CONNECTORS EXPOSED TO EXTERIOR TREATED WOOD (IE ACQ TREATED, BORATE, ETC) SHALL STAINLESS STEEL UNO.
- ALL NAILS EXPOSED TO EXTERIOR SHALL STAINLESS STEEL UNO. ALL NAILS EXPOSED TO PRE-TREATED LAMBER SHALL BE STAINLESS STEEL.

ANCHOR BOLTS

ANCHOR BOLTS SHALL BE IN ACCORDANCE WITH ASTM A307 OR ASTM F1554 GRADE 36 WASHERS SHALL BE IN ACCORDANCE WITH ASTM F436 GRADE 36. NUTS SHALL BE IN ACCORDANCE WITH ASTM A562 GRADE A HEX.

TYPICAL ANCHOR BOLTS ARE REQUIRED AT THE FOLLOWING LOCATIONS:

- SPACED @ 24" OC AT EXTERIOR WALL SILL PLATES.
- AT THE EXTERIOR WALL SILL PLATES WHERE THE THREADED ROD IS MORE THAN 6" FROM THE END OF THE PLATE.
- ANCHOR BOLTS ARE NOT REQUIRED AT EXTERIOR REAR WALL SILL PLATES.
- ANCHOR BOLTS SHALL BE USED UNDERNEATH FIRST FLOOR WINDOWS ON EACH SIDE BELOW EACH OPENING.

EPOXY ANCHORS

- ANCHORING ADHESIVE SHALL BE ONE OF THE FOLLOWING PRODUCTS (DUAL CARTRIDGE INSTALLATION ONLY): SIMPSON STRONG-TIE CO. PRODUCT 881-3G.
- THREADED RODS SHALL BE IN ACCORDANCE WITH ASTM A307 OR ASTM F1554 GRADE 36.
- NUTS/WASERS SHALL BE IN ACCORDANCE WITH ASTM F436 GRADE 36.
- NUTS SHALL BE IN ACCORDANCE WITH ASTM A562 GRADE A HEX.
- INSTALLATION OF ANCHORS SHALL COMPLY WITH MANUFACTURER'S RECOMMENDATIONS FOR DRILLING OF HOLES, CLEANING OF HOLES AND INSTALLING OF EPOXY AND ANCHORS.

DRAWING LIST

S-0.0 GENERAL NOTES
S-0.1 FIRST FLOOR FRAMING PLAN
S-0.2 ROOF FRAMING PLAN
S-0.3 DETAILS



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Preservation Improvements for
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Lake Park
601 Federal Highway
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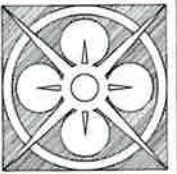
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GENERAL NOTES

S-0.0



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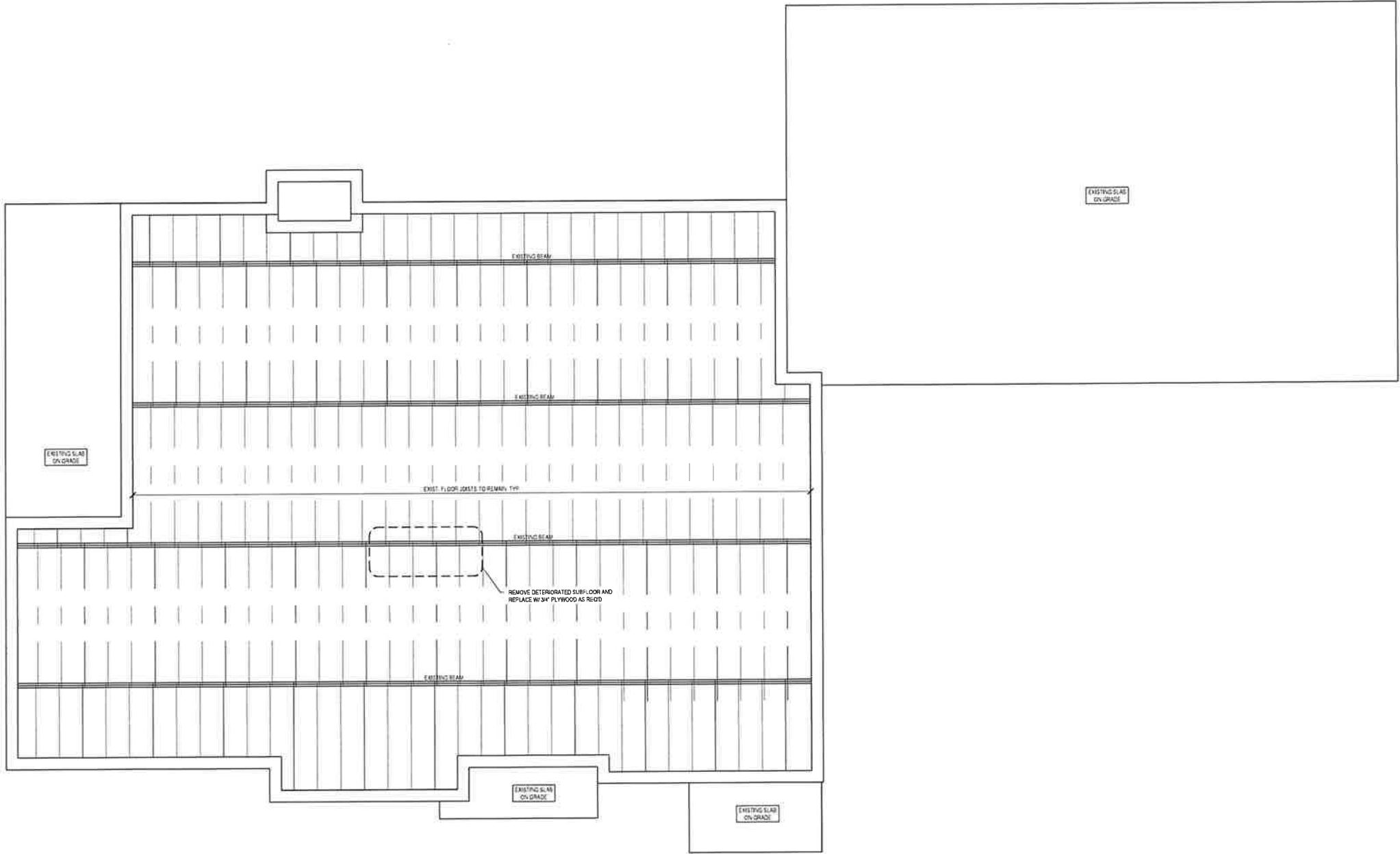


CHANDLER A. COLE, P.E.
FL LICENSE NO. 102109

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FIRST FLOOR
FRAMING PLAN

S-1.0



1 FIRST FLOOR FRAMING PLAN
Scale: 1/4" = 1'-0"

NOTE: NOTIFY EOR IMMEDIATELY IF
ANY FURTHER DETERIORATION IS
FOUND DURING CONSTRUCTION.

LINETYPE & SYMBOLS

	8" CMU STEM WALLS
	CONCRETE
	CONVENTIONAL FRAMING
	WOOD BEAM



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Preservation Improvements for
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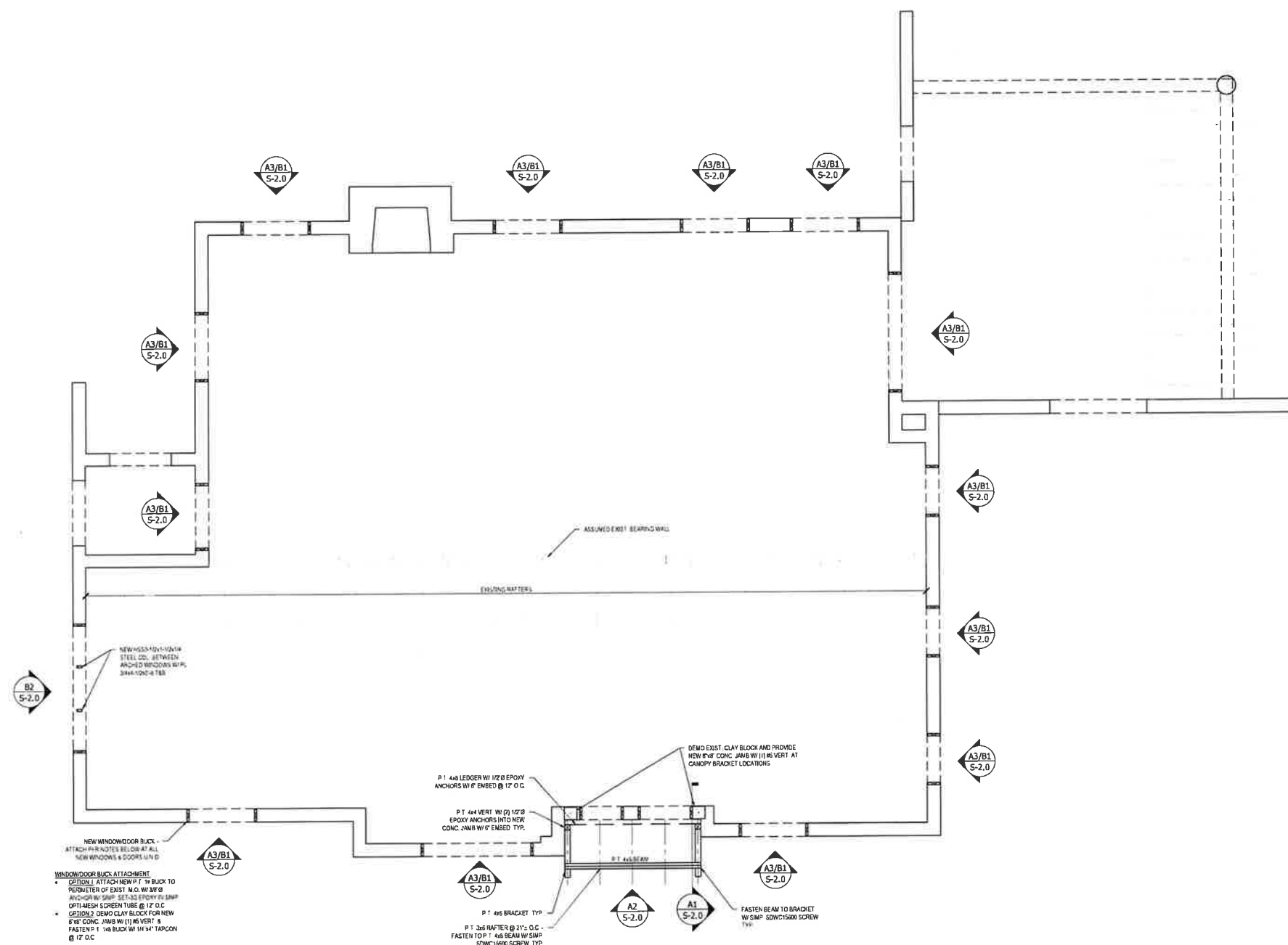
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ROOF
FRAMING PLAN

S-1.1



2 **ROOF FRAMING PLAN**
Scale: 1/8" = 1'-0"

CONVENTIONAL FRAMING NOTES
1. ALL CONVENTIONAL FRAMING SHALL BE SYP NO. 2 OR BETTER.
2. NOTIFY EOR IF ANY INTERIOR WALLS TO BE REMOVED APPEAR TO BE LOAD BEARING.

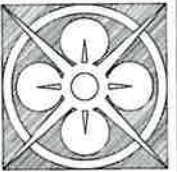
LINETYPE & SYMBOLS

LINE TYPE & SYMBOLS

	EXISTING CLAY BLOCK WALL
	ASSUMED NON-BEARING WALLS
	ASSUMED 2" BEARING WALL
	EXISTING MASONRY OPENING
	CONVENTIONAL FRAMING
	WOOD BEAM



CHANDLER A. COLE, P.
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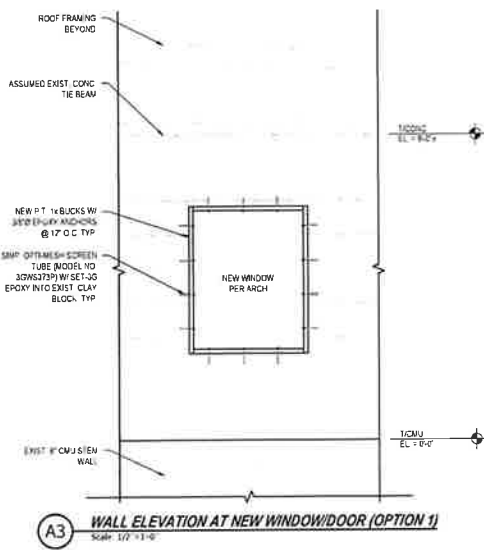
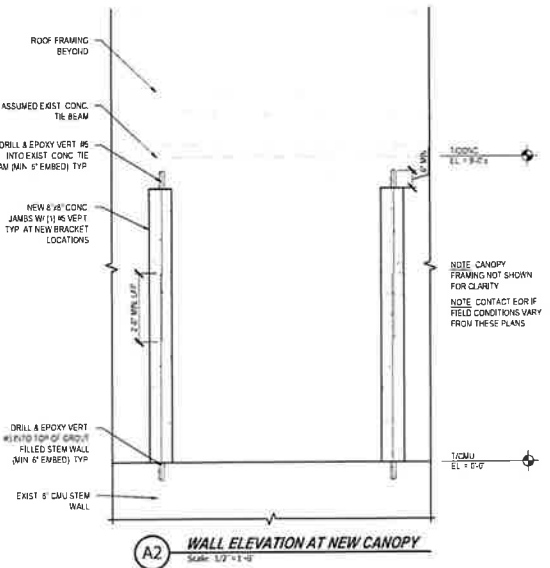
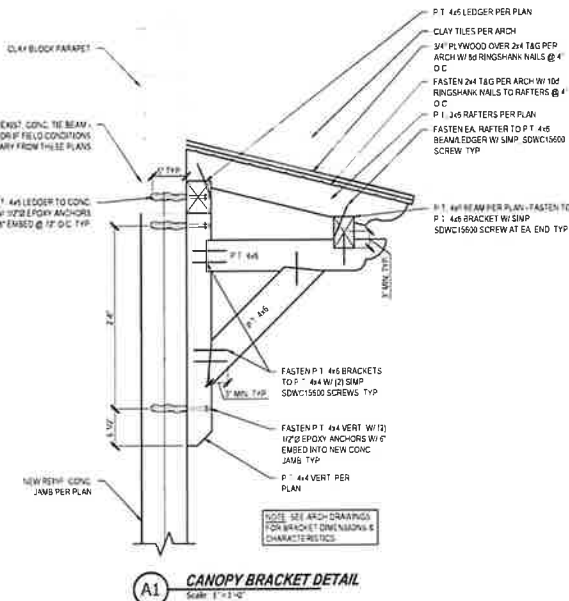
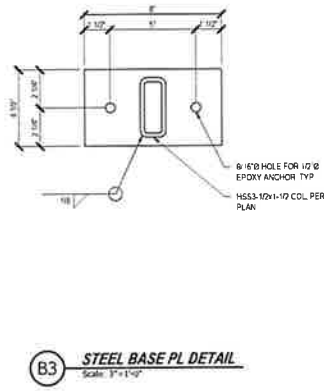
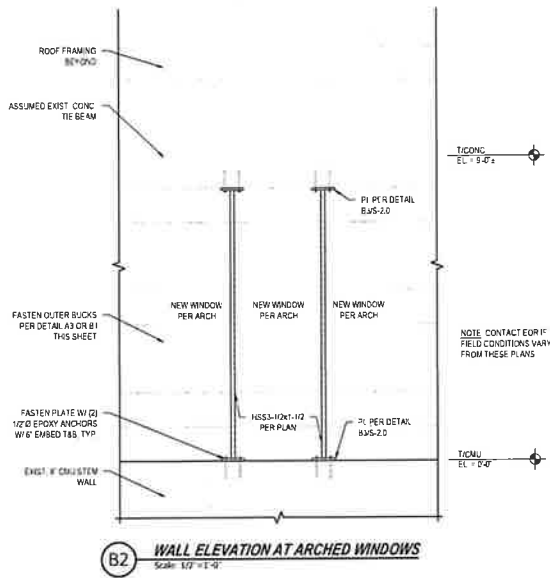
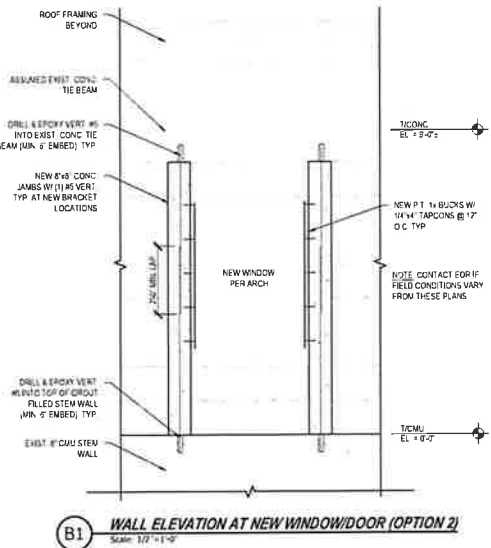
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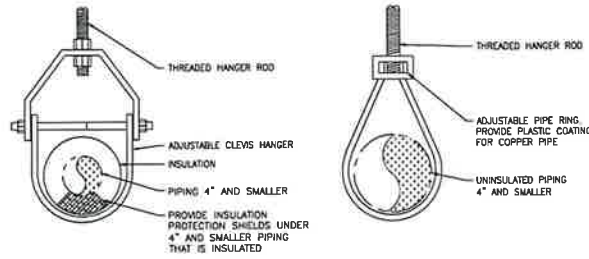
CHANDLER A. COLE
PROFESSIONAL ENGINEER
STATE OF FLORIDA
FL LICENSE NO. 102139

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DETAILS

S-2.0

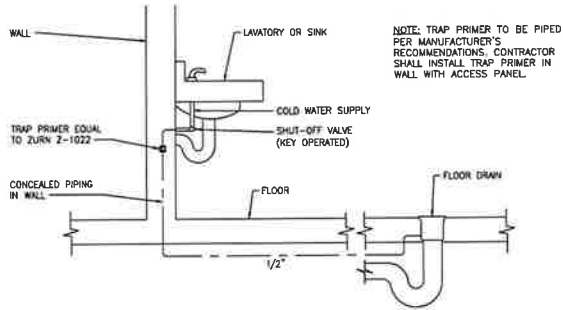




PIPE HANGER DETAILS

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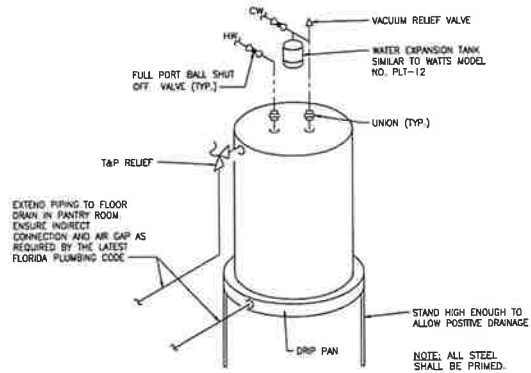
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TRAP PRIMER DETAIL

NOT TO SCALE

2
P10



WATER HEATER DETAIL

NOT TO SCALE

3
P10

BASIS OF DESIGN

- WC-1 WATER CLOSET (FLOOR MOUNTED, FLUSH TANK, HANDICAPPED) AMERICAN STANDARD VITREOUS CHINA WATER CLOSET 1.6 GPF, CADET MODEL 215A.004 WITH ELONGATED FRONT, CHURCH MODEL 9500-SSC WHITE SOLID PLASTIC SEAT WITH STAINLESS STEEL SELF-SUSTAINING CHECK HINGE, AND CHROME FINISHED SUPPLY TUBE. FLUSH LEVER ON APPROACH SIDE OF FIXTURE.
- LAV-1 LAVATORY (WALL HUNG, LEVER HANDLE FAUCET, HANDICAPPED) AMERICAN STANDARD LUCERNE MODEL 0356-021 WITH SINGLE CENTER HOLE. PROVIDE AMERICAN STANDARD FAUCET MODEL 7428101.002. PROVIDE STRAINER DRAIN WITH TAILPIECE AND BOCA FLOW REGULATORS FOR 0.5 GPM. ANGLE STOPS WITH LOOSE KEYS, ANNEALED CHROME PLATED VERTICAL COPPER SUPPLY TUBES AND 1-1/4" CAST BRASS P-TAP AND TUBING OUTLET. PROVIDE ZURN MODEL Z-1231 CONCEALED ARM MOUNTING KIT. MOUNTING HEIGHT AS INDICATED ON THE ARCHITECTURAL DRAWINGS. PROVIDE TRUEBRO MODEL NUMBER 102W INSULATION KIT, FURNISH WITH TV-1.
- S-1 SINK (30-3/4" X 18-1/2" X 4-7/8") ELKAY LUSTERTONE CLASSIC MODEL ELKAD311850 - WITH TWO 13-1/2" X 18" X 4-7/8" BOWLS. SINK SHALL BE FABRICATED OF 18 GAUGE, TYPE 304 STAINLESS STEEL. SINK SHALL BE PROVIDED AND DRILLED FOR THE FOLLOWING ACCESSORY ITEMS:
A. PROVIDE ELKAY FAUCET MODEL LKAV3031CR.
B. 1-1/2" BASKET STRAINER WITH TAILPIECE.
C. LOOSE KEY STOPS AND VERTICAL SUPPLY TUBES.
D. 1-1/2" P-TAP AND TUBING OUTLET.
E. PROVIDE WITH THERMOSTATIC MIXING VALVE TV-1.
- FWH-1 ELECTRIC WATER HEATER - ELECTRIC WATER HEATER RHEEM MODEL PRO40 M2 RH95, UL APPROVED, 40 GALLON TANK, TWO 4.5kW ELEMENTS, NON-SIMULTANEOUS. FURNISH RELIEF VALVE.
- FD-1 FLOOR DRAIN WITH 3" ROUND NICKEL STRAINER TOP MANUFACTURED BY ZURN MODEL Z415B. PROVIDE WITH TRAP PRIMER CONNECTION.
- TV-1 PROVIDE LEONARD MODEL 170 LEAD FREE THERMOSTATIC MIXING VALVE THAT CONFORMS TO ASSE 1070/ASME A112.1070/CSA B125.70.

PLUMBING FIXTURE CONNECTIONS SCHEDULE

SYMBOL	FIXTURE	SUPPLIES (INCH)		WASTE (INCH)	
		CW	HW	TRAP	VENT
WC-1	WATER CLOSET	3/4	-	3	2
LAV-1	LAVATORY	3/4	3/4	2	1-1/2
S-1	SINK	3/4	3/4	2	1-1/2
FD-1	FLOOR DRAIN	3/4	-	3	2

PLUMBING GENERAL NOTES

- THE DRAWINGS ARE PARTLY DIAGRAMMATIC AND ARE NOT INTENDED TO SHOW IN DETAIL ALL FEATURES OF THE WORK. ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE PLUMBING SPECIFICATIONS, THE DRAWINGS AND THE LATEST PLUMBING CODE.
- CONTRACTOR SHALL VERIFY EXISTING ITEMS PRIOR TO BIDDING AND ADVISE ENGINEER OF RECORD WITH ANY DISCREPANCIES.
- OBTAIN EXACT ROUGH-IN INFORMATION BEFORE CONSTRUCTION.
- ALL CUTTING & PATCHING OF EXISTING FLOORS, WALLS, CEILING, ETC. SHALL BE COORDINATED BY THE GENERAL CONTRACTOR OR AT HIS DIRECTION. THIS CONTRACTOR SHALL BE RESPONSIBLE FOR CLEAN UP AFTER EACH SESSION.
- THE CUTTING OF STRUCTURAL AND/OR ARCHITECTURAL MEMBERS IS TO BE DONE ONLY WITH THE WRITTEN APPROVAL OF THE ARCHITECT AND STRUCTURAL ENGINEER.
- ALL WORK UNDER THIS PROJECT SHALL INCLUDE ALL LABOR, MATERIALS, EQUIPMENT AND SERVICES NECESSARY TO COMPLETE THE PLUMBING SYSTEM AS SHOWN ON THE DRAWINGS & SPECIFICATIONS.
- OFFSET PIPING TO AVOID STRUCTURAL MEMBERS, FLASHINGS, MECHANICAL AND ELECTRICAL EQUIPMENT, ETC.
- PROVIDE STAINLESS STEEL FLEX-LINE FOR FINAL CONNECTIONS TO EQUIPMENT ITEMS.
- PROVIDE CHROME PLATED ESCUTCHEON PLATES FOR ALL EXPOSED PIPE PASSING THROUGH WALLS, FLOORS, OR CEILING. ALL EXPOSED PIPING AND FITTINGS SHALL BE CHROME PLATED.
- HOT & COLD WATER SUPPLIES TO EACH INDIVIDUAL OR GROUP OF PLUMBING FIXTURES SHALL BE FITTED WITH WATER HAMMER ARRESTORS, ZURN SHOKTROL SIZED AND INSTALLED PER MANUFACTURER'S RECOMMENDATION.
- SANITARY PIPING SLOPE: FOR 2" PIPE, MINIMUM SLOPE IS 1/4" PER FOOT. FOR 3" AND 4" PIPE, MINIMUM SLOPE IS 1/8" PER FOOT.
- PIPE HANGERS SHALL BE ADJUSTABLE TEARDROP TYPE HANGER AND RODS, GRINNELL OR EQUAL.
- FIRE-STOP & SMOKE-STOP ALL EXISTING & NEW PENETRATIONS IN FIRE OR SMOKE RATED PARTITIONS, WALLS, FLOORS, ETC TO MAINTAIN PROPER RATINGS.
- PROVIDE ALL ACCESSORIES REQUIRED SUCH AS STOPS, TRAPS, ESCUTCHEONS, CONNECTIONS, CARRIERS, ETC., FOR ALL FIXTURES AS NECESSARY TO COMPLETE THE INSTALLATION OF EACH FIXTURE.
- ALL PIPING IN PLENUM RETURN AREAS SHALL BE PLENUM RATED.
- ALL FURNISHED EXPOSED FAUCETS: TRAPS CONNECTING PIPING, STOPS AND OTHER FIXTURE TRIM SHALL BE CHROME-PLATED BRASS UNLESS OTHERWISE SPECIFIED. ALL FASTENING SHALL BE CHROME-PLATED BRASS.
- GENERAL CONTRACTOR SHALL HIRE A SURVEY/LOCATOR COMPANY TO LOCATE/IDENTIFY ALL UNDERGROUND PIPING AND PIPING IN CRAWL SPACE, ETC.
- ALL FITTINGS SHALL BE INSTALLED BY NO LESS THAN A JOURNEYMAN LEVEL PLUMBER.
- NO HORIZONTAL DOUBLE-WYE FITTINGS ARE ACCEPTABLE.
- INDIRECT WASTE PIPING FROM EQUIPMENT, WHICH PRODUCES A COLD WASTEWATER, (SUCH AS CONDENSATE DRAINS, ETC.) SHALL BE INSULATED WITH 1/2" ARMAFLEX INSULATION.
- ALL VENTS THRU ROOF SHALL BE INSTALLED A MINIMUM OF 10'-0" FROM ANY FRESH AIR INTAKE AND OFFSET MINIMUM OF 3'-0" FROM EDGE OF ROOF LINE AND PARAPETS.
- DO NOT RUN ANY PLUMBING LINES ABOVE OR BESIDE ANY ELECTRICAL PANELS OR EQUIPMENT. EXISTING PLUMBING LINES SHALL BE MOVED TO NOT BE ABOVE OR BESIDE ANY ELECTRICAL PANELS OR EQUIPMENT.
- ALL TESTING & STERILIZATION SHALL COMPLY WITH LOCAL GOVERNING CODES & RECOMMENDATION OF THE AMERICAN WATER WORKS ASSOC. ALL PLUMBING TESTS SHALL BE WITNESSED BY THE PLUMBING INSPECTOR, AND A COPY OF THE DISINFECTION REPORT SHALL BE PROVIDED TO THE PLUMBING INSPECTOR.
- CONTRACTOR TO PROVIDE ONE YEAR OF WARRANTY ON SERVICE, LABOR, EQUIPMENT AND MATERIALS.

PLUMBING LEGEND

---	COLD WATER (CW)
---	HOT WATER (HW)
---	SANITARY (S)
---	VENT (V)
---	FULL PORT BALL SHUT OFF VALVE
○	PIPE UP
○	PIPE DOWN
+	STRAINER
✓	CHECK VALVE
⊕	ASME PRESSURE/TEMPERATURE RELIEF VALVE
⊕	UNION
VTR	VENT THROUGH ROOF



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Preservation Improvements for
Lake Park Historic Evergreen House
604 Federal Highway
Lake Park City, FL 33403-2603

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No.	Date	Revisions
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Commission No.		04-30-2026
Date		04-30-2026
Scale		SEE DWG
Drawn by		N.H.
Checked by		N.H.
Sheet No.		of

PLUMBING NOTES,
DETAILS, LEGEND
AND SCHEDULE

P1.0

Nashwan Haddad
Digitally signed by
Nashwan Haddad
Date: 2026.04.30
11:55:30 -04'00'

TO THE BEST OF MY KNOWLEDGE, THE PLANS AND SPECIFICATIONS SHOWN WITHIN THE APPROVED WORKMANSHIP, ACCORDING TO THE APPLICABLE STATUTES.

THIS ITEM HAS BEEN DIGITALLY SIGNED AND SHIPPED BY NASHWAN HADDAD. THE DATE ADAPTED TO THE SIGNATURE.

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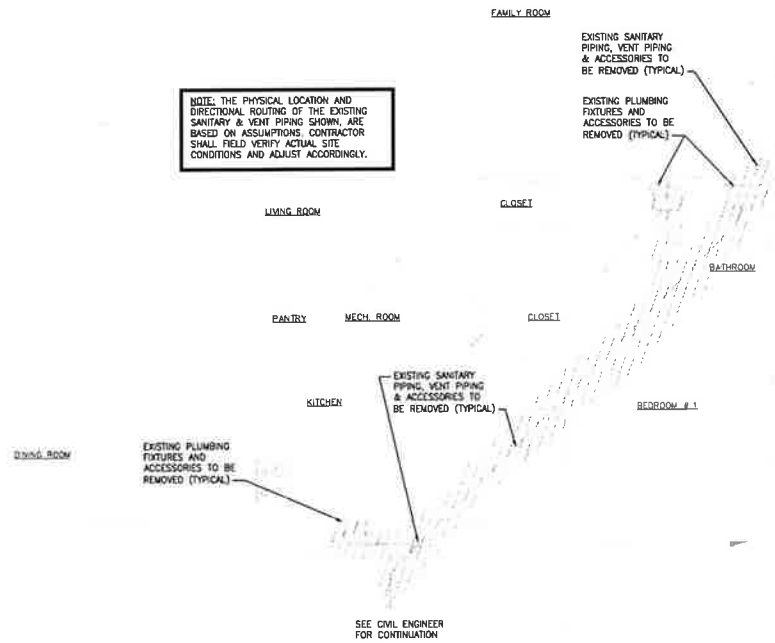
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Commission No.
Date 04.30.2026
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Drawn by J.H.
Checked by W.H.
Sheet No. of

DEMOLITION FLOOR PLAN - PLUMBING

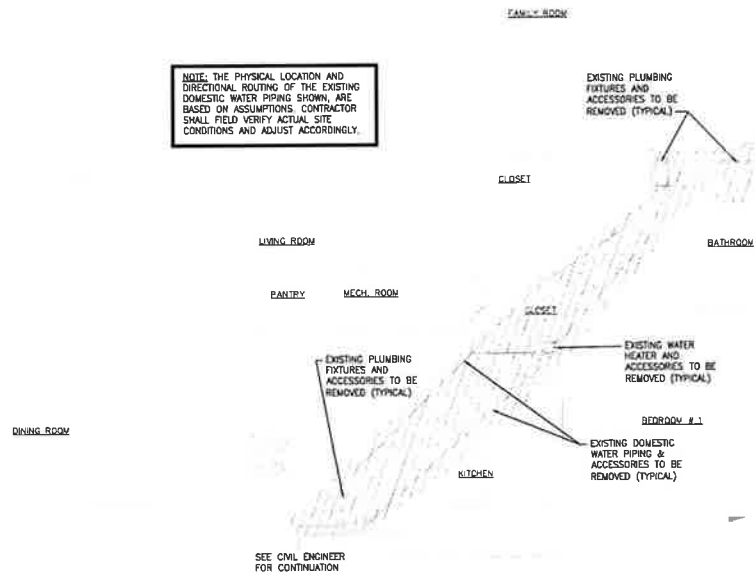
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DEMOLITION FLOOR PLAN - SANITARY

SCALE 1/4" = 1'-0"

//////// PLUMBING ITEMS TO BE REMOVED



DEMOLITION FLOOR PLAN - DOMESTIC WATER

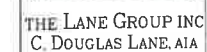
SCALE 1/4" = 1'-0"

//////// PLUMBING ITEMS TO BE REMOVED

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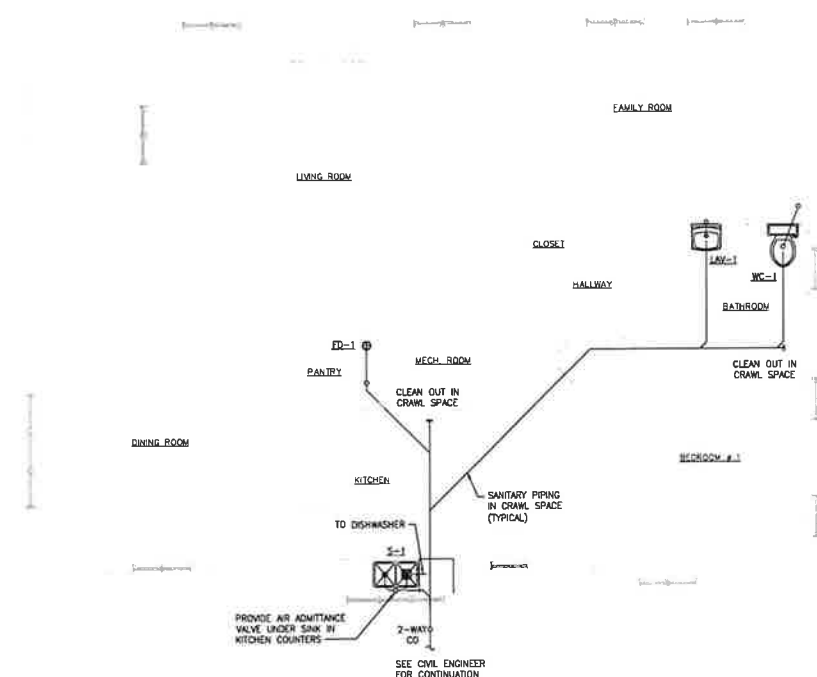
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NEW FLOOR PLANS &

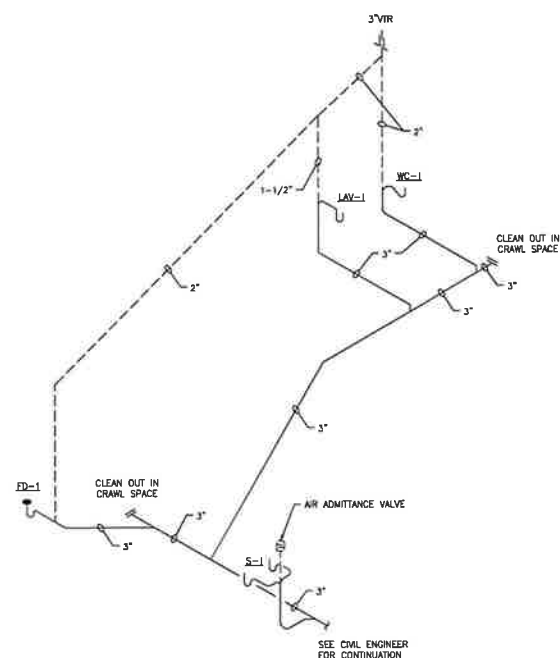
RISER DIAGRAMS -

PLUMBING

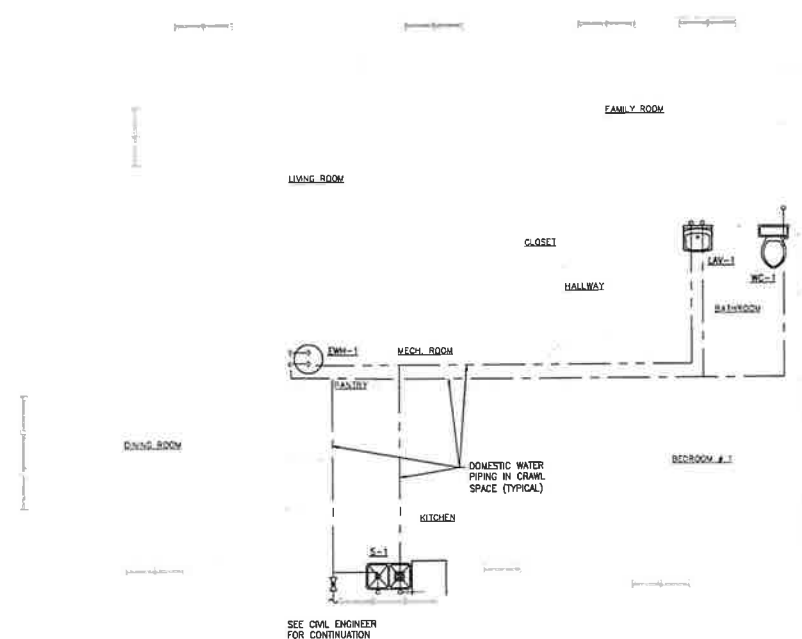
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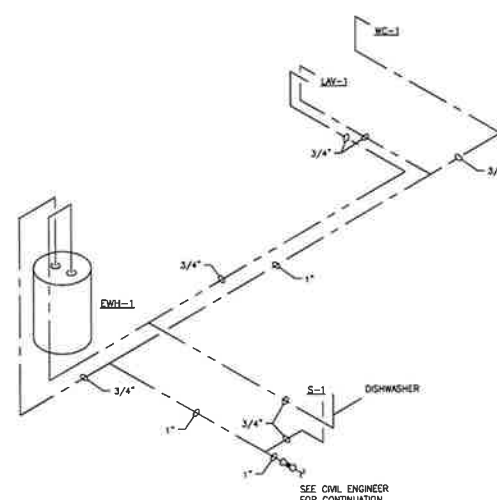
 **NEW FLOOR PLAN - SANITARY**
SCALE 1/4" = 1'-0"



RISER DIAGRAM - SANITARY
NOT TO SCALE



 **NEW FLOOR PLAN - DOMESTIC WATER**
SCALE 1/4" = 1'-0"



RISER DIAGRAM - DOMESTIC WATER
NOT TO SCALE

TO THE BEST OF THE ENGINEER'S KNOWLEDGE, THE PLAN AND SPECIFICATION COMPLY WITH THE APPLICABLE MECHANICAL BUILDING CODES IN ACCORDANCE WITH THE MECHANICAL BUILDING CODES.

THIS ITEM HAS BEEN DIGITALLY SIGNED AND SEALED BY
ADAM W. MACDADD OF THE NATIONAL ARCHIVES



PLUMBING SPECIFICATIONS

SECTION 1 - GENERAL REQUIREMENTS

- A. THE WORK UNDER THIS PROJECT INCLUDES THE PROMISING OF ALL LABOR, MATERIALS, AND SERVICES NECESSARY TO INSTALL THE INDICATED SYSTEMS ON THE DRAWINGS AND ALL ASSOCIATED ACCESSORIES.
- B. ALL WORK SHALL BE PERFORMED ACCORDING TO THE LATEST FLORIDA PLUMBING CODE, DRAWINGS, AND SPECIFICATIONS. ALL EQUIPMENT TO BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.
- C. ALL CUTTING AND PATCHING FINISHED WORK SHALL HAVE A PLEASANT APPEARANCE.
- D. THE LOCATION OF ALL PIPING SHALL BE COORDINATED WITH ALL STRUCTURAL MEMBERS.
- E. MAINTAIN THE INTEGRITY OF ANY NEW OR EXISTING FIRE RATING OF WALLS, CEILING AND FLOORS.
- F. EACH PLUMBING FIXTURES SHALL BE SEPARATELY TRAPPED, UNLESS OTHERWISE NOTED.
- G. INSTALL UNIONS ON ONE SIDE OF EACH VALVE.
- H. PROVIDE ELECTRONIC SHOP DRAWINGS OF TO ENGINEER OF RECORD WITH ALL EQUIPMENT, PLUMBING FIXTURES, PIPES, FITTINGS, ACCESSORIES, ETC SHOP DRAWINGS SHALL BE SUBMITTED ALL AT ONCE.
- I. PROVIDE ONE YEAR WARRANTY FOR SERVICE, EQUIPMENT AND MATERIALS.
- J. GENERAL CONTRACTOR TO HIRE A SURVEY/LOCATOR COMPANY TO TO LOCATE AND IDENTIFY ALL UNDERGROUND PIPING.
- K. COORDINATE ALL EQUIPMENT, PIPES, FITTINGS, ACCESSORIES, ETC WITH ALL OTHER TRADES BEFORE PURCHASE AND INSTALLATION OF ITEMS.
- L. PROVIDE A COMPLETE SET OF AS-BUILT DRAWINGS TO THE ENGINEER OF RECORD.
- M. PROVIDE A COMPLETE SET OF O&M MANUALS INCLUDING ONE YEAR WARRANTY FOR SERVICE, LABOR, EQUIPMENT AND MATERIALS.
- N. PROVIDE CERTIFICATION CERTIFICATES.
- O. PROVIDE AS-BUILT DRAWINGS TO ENGINEER OF RECORD.

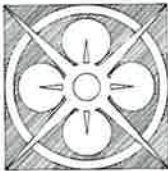
SECTION 2 - PRODUCTS

- A. **GENERAL**
1. ALL MATERIALS AND EQUIPMENT SHALL BE NEW AND FREE FROM ANY DEFECTS. DEFECTIVE DEVICES SHALL BE REPLACED AT NO COST TO THE OWNER.
2. THE QUALITY OF THE MATERIALS SHALL COMPLY WITH THE STANDARDS OF THE AMERICAN SOCIETY FOR TESTING AND MATERIALS (ASTM), LIFE SAFETY CODE AND THE LATEST FLORIDA BUILDING CODE.
3. PRIOR TO PURCHASE OF EQUIPMENT, CONTRACTOR TO VERIFY THAT EQUIPMENT FITS IN THE SPECIFIED ENVELOPE AND MEETS MANUFACTURER'S CLEARANCES.
4. PROVIDE ALL ITEMS SPECIFIED ON THE DRAWINGS, INCLUDING ALL ACCESSORIES ASSOCIATED FOR A COMPLETE AND OPERABLE SYSTEM.
- B. **PIPE AND FITTINGS**
1. ALL PIPING SHALL BE RUN STRAIGHT. CUT PIPE SHALL BE SQUARELY CUT AND PROPERLY REAMED ON ALL ENDS. FITTINGS AND NIPPLES SHALL BE OF THE SAME MATERIALS AS THE PIPE.
2. CWP SCHEDULE 80 PIPE SHALL BE SUITABLE FOR USE AT MAXIMUM WORKING PRESSURE OF 150 PSI. ALL PIPE MUST MEET THE REQUIREMENTS OF ASTM D-1784, ASTM F-441, AND NSF STANDARD 14. SOCKET TYPE FITTINGS SHALL MEET ASTM F-153 THREADED FITTINGS SHALL MEET ASTM F-443 WITH THREADED BRASS INSERT BY 1/8" HANNOVERTON OR ACCEPTABLE ALTERNATIVE. SOLVENT WELD MATERIAL SHALL BE SOLVENT CEMENT MEETING THE REQUIREMENTS OF ASTM F-443.
3. PLASTIC PIPE SHALL CONFORM TO ASTM D1785. PLASTIC FITTINGS SHALL CONFORM TO ASTM D2466. SOLVING CEMENT SHALL CONFORM TO ASTM D2564. CELLULAR CORE PIPING IS NOT ACCEPTABLE.
4. DOMESTIC WATER PIPING: ALL PIPE AND FITTINGS SHALL BE SCHEDULE 80 CWP.
5. SANITARY AND VENT PIPING: ALL PIPE AND FITTINGS UP TO ONE FEET OUTSIDE OF THE BUILDING SHALL BE SCHEDULE 40 PIPE. PLASTIC BURIED PIPING SHALL BE INSTALLED WITH A LOCATOR WIRE #11 GAGE INSTALLED PER MANUFACTURER'S RECOMMENDATIONS.
- C. **THERMAL INSULATIONS**
1. ALL DOMESTIC WATER PIPING SHALL BE INSULATED. INSULATION SHALL BE INSTALLED AFTER THE PIPING SYSTEM HAS BEEN CHECKED AND FOUND FREE OF ALL LEAKS. INSURE SURFACES ARE CLEAN AND DRY BEFORE INSTALLING INSULATION. PIPE INSULATION SHALL BE SECURED. ELBOWS SHALL BE INSULATED WITH JOHNS-MANVILLE UNIT FITTING COVERS. VALVES AND OTHER IRREGULAR SHAPED FITTINGS SHALL BE INSULATED WITH PIPE INSULATION SEGMENTS AND FINISHED WITH A SEAM COAT OF AIR DRYING JOHNS-MANVILLE 375 CEMENT AND WHITE GLASS FABRIC DIPPED IN FOSTER'S 30-60 COATING OR EQUAL.
2. MATERIAL INSULATION SHALL BE 1" AP ARMAFLEX BLACK LAPSEAL FOR PIPES 3/4" - 1-1/2". INSULATION SHALL BE 1-1/2" AP ARMAFLEX BLACK LAPSEAL FOR PIPES 2" - 4".
- D. **PLUMBING FIXTURES**
1. ALL PLUMBING FIXTURES SHALL BE PROVIDED AS SHOWN ON THE PLUMBING BASIS OF DESIGN. IN ADDITION TO ANY REQUIRED ACCESSORIES TO PROVIDE A FULL AND OPERABLE PLUMBING SYSTEM. PROPOSED FIXTURES AND ACCESSORIES SHALL BE SUBMITTED FOR APPROVAL WITH CATALOG CUT SHEETS AND FULL DESCRIPTIONS.
- E. **PLUMBING ACCESSORIES**
1. VALVES:
- 1.1. GATE VALVES: 2" AND SMALLER - CRANE NO. 428 OR NO. 430 AS APPLICABLE. 2-1/2" IPS OR LARGER CRANE #445-1/2" OR #445 AS APPLICABLE.
- 1.2. CHECK VALVES: 2" IPS OR SMALLER - CRANE #37. 2-1/2" IPS OR LARGER - CRANE 373.
- 1.3. BALL VALVES: FULL PORT BALL VALVES WITH STAINLESS STEEL STEM AND BALL WITH TEFLON SEAT AND RINGS.
2. CLEANOUTS:
- 2.1. CLEANOUTS INSTALLED IN FLOORS WITH WATERPROOF MEMBRANE SHALL BE PROVIDED WITH CLAMPING RINGS. INSTALL CLEANOUT FRAMES AND COVERS TO BE FLUSH WITH THE FINISHING MATERIAL.
- 2.2. CLEANOUT PLUGS: JOSAM 58540-20.
- 2.3. CLEANOUTS IN WALL: JOSAM 58790-22.
- 2.4. CLEANOUTS IN CONCRETE AND TERRAZZO FLOOR FINISHES: JOSAM 58404-2.
3. PIPE HANGERS: HANGERS SHALL BE OF THE CLEVIS TYPE, MSS SP-58, TYPE 1.
4. WATER HAMMER ARRESTORS: PROVIDE AS REQUIRED AND IN CONFORMANCE WITH THE PLUMBING AND DRAINAGE INSTITUTE NO. PD-WH-201 AND ASSE 1010 AND THE MANUFACTURER'S RECOMMENDATIONS.
- F. **PLUMBING IDENTIFICATION**
1. FOR INSULATED PIPING, PROVIDE PRE-PRINTED, SEAM-ROOF, SHAW-ON, COLOR CODED IDENTIFICATION SLEEVES COMPLYING WITH ANSI A13.1.
2. FOR UNINSULATED PIPING, PROVIDE PRE-PRINTED, PERMANENT ADHESIVE, COLOR CODED, PRESSURE SENSITIVE, VINYL PIPE MARKERS CONFORMING WITH ANSI A13.1.
3. PROVIDE IDENTIFICATION AND TAGGING MARKS FOR VALVES AND CONCEALED EQUIPMENT USING A PLASTIC LAMINATE ENGRAVED TAG ATTACHED TO ACCESS PANEL OR

CEILING GRID INDICATING ITEM IS CONCEALED.

SECTION 3 - EXECUTION

- A. **SANITARY SYSTEM**
1. WHERE APPLICABLE, PROVIDE 1/8" OR 1/16" BENDS.
2. ALL FIXTURES SHALL BE INDIVIDUALLY VENTED OR CONNECTED TO A VENTED STACK.
3. 4" SANITARY PIPE TO BE SLOPED MINIMUM 1/8" PER FOOT. 3" SANITARY PIPE TO BE SLOPED MINIMUM 1/4" PER FOOT. 2" SANITARY PIPE TO BE SLOPED MINIMUM 1/4" PER FOOT.
4. CLEANOUTS SHALL BE PIPE SIZE.
5. VENT SYSTEM SHALL EXTEND 12" ABOVE ROOF. ENSURE MINIMUM 10' AWAY FROM ANY FRESH AIR INTAKES. ENSURE MINIMUM 3' AWAY FROM OPERABLE WINDOWS OR DOORS.
- B. **DOMESTIC WATER SYSTEM**
1. WATER SYSTEM SHALL BE INSTALLED WITH A FALL TOWARDS THE LOWEST FIXTURE.
2. PROVIDE SHUT OFF VALVE ON ALL BRANCHES SERVING MORE THAN ONE FIXTURE.
3. PROVIDE SHUT OFF VALVE ON EACH SUPPLY TO EACH FIXTURE, NOT PROVIDED WITH COMPRESSION STOP.
4. PROVIDE PIPING WITH SUPPORTS AS REQUIRED.
5. CONTRACTOR SHALL TEST THE MAIN LINE WATER PRESSURE COMING INTO THE BUILDING AND SUBMIT THE INFORMATION TO THE ENGINEER OF RECORD.
- C. **FIXTURE INSTALLATION**
1. CONNECTION BETWEEN WATER CLOSETS AND FLANGES ON SOIL SHALL BE GAS AND WATER TIGHT WITH A ONE PEECE MAILED GASKET. ALL BULK MATERIAL, INCLUDING PLASTICS SHALL NOT BE USED. REFER TO ARCHITECTURAL DRAWINGS FOR EXACT LOCATIONS OF FLOOR DRAINS.
- D. **SUPPORTS, FASTENINGS, ANCHORING**
1. PLUMBING FIXTURES, TUBRANCES, ACCESSORIES SHALL BE SECURED TO CONCRETE BY 1/4" BRASS EXPANSION BOLTS NOT LESS THAN 4" LONG, AND TO COMPLY WITH STEEL PLATES 1/8" THICK, 8" WIDE AND NOT LESS THAN 24" LONG AT THE BACK OF THE THROUGH BOLTS. EXPANSION BOLTS SHALL BE OF A LENGTH SUFFICIENT TO EXTEND TO ATLEAST 3" INTO SOLID CONCRETE. THROUGH BOLTS SHALL BE PROVIDED WITH PLATES OR WASHERS AT THE BACK AND SET SO THAT HEADS, NUTS, AND WASHERS WILL BE CONCEALED BY THE WALL MATERIAL. EXPOSED HEADS OF BOLTS AND NUTS SHALL BE NICKEL-CHROMIUM PLATED. ANCHORS WITH ROUNDED TOPS.
2. ALL PIPING SHALL BE SUPPORTED IN A MANNER SUCH THAT EXPANSION AND CONTRACTING WILL TAKE PLACE IN THE DIRECTION DESIRED, WHILE PREVENTING VIBRATIONS. PROVIDE VIBRATION DAMPERS WHEN REQUIRED.
3. WALL BRACKETS SHALL BE USED WHEN PIPING IS ADJACENT TO WALLS OR VERTICAL SURFACES AND USED FOR SUPPORT.
4. SUPPORTS SHALL BE PROVIDED WITH A TYPE 40 PIPE COVERING PROTECTION SADDLE AT EACH SUPPORT IN ACCORDANCE WITH TABLE FOUR OF SP-88.
5. PIPE SUPPORTS SHALL BE SPACED TO PROVIDE ADEQUATE SUPPORT OF THE PIPES AND ALL OTHER INSULATIONS AND ACCESSORIES.
6. MAXIMUM HORIZONTAL SPACING FOR METAL PIPING BETWEEN PIPE SUPPORTS SHALL CONFORM TO TABLE 3 OF MSS SP-58.
7. VERTICAL PIPING SHALL BE SUPPORTED BY BOLTED STEEL CLAMPS AND CONFORMING TO MSS SP-58.
8. PROVIDE PIPE HANGERS WITH NEOPRENE PADS.
- E. **PIPE SLEEVES**
1. PIPE SLEEVES SHALL BE PROVIDED WHERE PIPES PASS THROUGH MASONRY OR CONCRETE WALLS, FLOORS, ROOFS AND PARTITIONS. SLEEVES SHALL BE PLACED DURING CONSTRUCTION OF THE BUILDING. SLEEVES IN OUTSIDE WALLS BELOW AND ABOVE GRADE, OR IN FLOOR SLABS, SHALL BE ZINC-COATED SHEET STEEL. SPACE BETWEEN PIPE, TUBING OR INSULATION AND THE SLEEVE SHALL NOT LESS THAN 1/4". SLEEVES SHALL BE HELD TOGETHER IN PROPER POSITION AND LOCATION. ALL SLEEVES SHALL BE OF SUFFICIENT LENGTH TO PASS THROUGH ENTIRE THICKNESS OF WALLS, PARTITIONS OR SLABS. SPACE BETWEEN THE PIPE AND THE SLEEVE SHALL BE FULLY PACKED WITH GRAVEL AND CALKED ON BOTH ENDS OF THE SLEEVE WITH INSULATING CEMENT. SLEEVES LOCATED IN WATERPROOFED CONSTRUCTION SHALL BE PROVIDED WITH FLANGE AND CLAMPING RING.
- F. **STERILIZATIONS**
1. VERIFY SYSTEM IS COMPLETE, FLUSHED AND CLEAN.
2. DISEASE PH OF WATER TO BE TREATED IS BETWEEN 7.4 AND 7.6 BY ADJUG. ALKALI (CAUSTIC SODA OR SODA ASH) OR ACID (HYDROCHLORIC).
3. INJECT DISINFECTANT, FREE CHLORINE IN LIQUID, POWDER, TABLET OR GAS FORM, THROUGHOUT SYSTEM TO OBTAIN 50 TO 80 MG/L RESIDUAL.
4. BLEED WATER FROM OUTLETS TO ENSURE DISTRIBUTION AND TEST FOR DISINFECTANT RESIDUAL AT MINIMUM 15 PERCENT OF OUTLETS.
5. MAINTAIN DISINFECTANT IN SYSTEM FOR 24 HOURS. IF FINAL DISINFECTANT RESIDUAL TESTS LESS THAN 25 MG/L, REPEAT TREATMENT.
6. FLUSH DISINFECTANT FROM SYSTEM UNTIL RESIDUAL EQUAL TO THAT OF INCOMING WATER OR 1.0 MG/L.
7. TAKE SAMPLES NO SOONER THAN 24 HOURS AFTER FLUSHING. FROM 15 PERCENT OF OUTLETS AND FROM WATER ENTRY, AND ANALYZE IN ACCORDANCE WITH APWA C651.
8. A TESTING COMPANY SPECIALIZING IN TESTING POTABLE WATER SYSTEMS SHALL BE APPROVED BY THE STATE.
9. A CERTIFICATE SHALL BE SUBMITTED TO OWNER THAT CLEANNESNESS OF WATER DISTRIBUTION SYSTEM MEETS OR EXCEEDS STATE HEALTH DEPARTMENT REQUIREMENTS.
- G. **LEAK TEST**
1. WATER SUPPLY PIPING SHALL BE SUBJECTED TO A HYDROSTATIC PRESSURE TEST OF 100 PSI. PRESSURE SHALL BE MAINTAINED ON THE LINES FOR ONE HOUR. CONTRACTOR SHALL WITNESS TESTS BEING PERFORMED AND FOLLOW SAFETY GUIDELINES AND STANDARDS.
2. SANITARY PIPING SHALL BE SUBJECTED TO AN AIR LEAKAGE TEST. PRESSURE SHALL BE MAINTAINED ON THE LINES FOR A PERIOD OF NOT LESS THAN ONE HOUR. CONTRACTOR SHALL WITNESS TESTS BEING PERFORMED AND FOLLOW SAFETY GUIDELINES AND STANDARDS.



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PLUMBING
SPECIFICATIONS

P4.0

THIS SET OF THE PROJECT SPECIFICATIONS, THE PLANS, AND SPECIFICATIONS, COMPLY WITH THE APPROVED MINIMUM BUILDING CODES, AND ACCORDS TO THE RULES AND REGULATIONS.

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EXHAUST FAN SCHEDULE	
UNIT NO.	EF-1
TYPE	CABINET
SERVES	RESTROOM
AIR FLOW (CFM)	80
EXTERNAL S.P. (IN. W.G.)	0.125
FAN WATTS OR (HP)	11.5 WATTS
DRIVE	DIRECT
MAXIMUM SONES	0.4
VOLTS/PHASE/HERTZ	120/1/60
MANUFACTURER	PANASONIC
MODEL NO.	FV-0510VS1
NOTES	1-6
NOTES: 1. PROVIDE BACKDRAFT DAMPER AND VIBRATION ISOLATION. 2. PROVIDE SOLID STATE CONTROLLER. 3. INTERLOCK WITH LIGHT SWITCH. 4. PROVIDE WITH ALUMINUM REGISTER. 5. PROVIDE UL LISTED EXHAUST FAN. 6. FAN SHALL BE THERMALLY PROTECTED.	

SPLIT SYSTEM SCHEDULE	
UNIT NO.	AHU-1 / HPU-1
SUPPLY AIR/OUTSIDE AIR (CFM)	1,400/175
EXTERNAL S.P. (IN. W.G.)	0.5
FAN DATA	
HORSEPOWER (HP)	3/4
VOLTS/PHASE/HERTZ	240/1/60
COOLING DATA	
TOTAL CAPACITY (MBH)	44.7
SENSIBLE CAPACITY (MBH)	39.7
ENT. AIR TEMP. (FDB/FWB)	78.9 / 85.9
LVD. AIR TEMP. (FDB/FWB)	53.5 / 51.4
HEATING DATA	
HEATING CAPACITY NOM. (MBH)	42
ELECTRIC HEAT (kW)	8
EAT/LAT (F)	67.7 / 85.8
CONDENSER UNIT DATA	
MINIMUM SEER2	16
VOLTS/PHASE/HERTZ	240/1/60
AHU-1 MCA/MOP	46.5/50
HPU-1 MCA/MOP	24.9/40
MANUFACTURER	CARRIER
MODEL NO. (AHU/HPU)	FT5ANXC48/27SPA642
NOTES	1-8
NOTES: 1. PROVIDE SEVEN DAY PROGRAMMABLE THERMOSTAT. 2. PROVIDE SINGLE POINT ELECTRICAL CONNECTION. 3. EXTEND CONDENSATE TO FLOOR DRAIN IN PANTRY ROOM. 4. PROVIDE DUCT SMOKE DETECTOR. SEE NOTE 10 ON HVAC GENERAL NOTES. 5. PROVIDE MOTORIZED DAMPER FOR OUTSIDE AIR DUCT. 6. PROVIDE AUXILIARY DRAIN PAN UNDER AHU. 7. OUTSIDE AIR DAMPER SHALL CLOSE WHENEVER THE COMPRESSOR IS DE-ENERGIZED AND SHALL OPEN WHENEVER THE COMPRESSOR IS ENERGIZED. 8. PROVIDE 25,000 HR SALT SPRAY RATING ON HPU.	

AIR DISTRIBUTION SCHEDULE						
MARK	TYPE	FACE SIZE	BORDER TYPE	MANUFACTURER	MODEL NO.	NOTES
A	FLOOR SUPPLY GRILLE	SEE DWGS.	FLOOR	METALARE	L8G	1, 2
B	SIDEWALL SUPPLY REGISTER	SEE DWGS.	SURFACE	METALARE	SDV	1, 2
C	SIDEWALL RETURN REGISTER	SEE DWGS.	SURFACE	METALARE	RG	1, 2
NOTES: 1. PROVIDE OPPOSED BLADE DAMPER. 2. PROVIDE DAMPER AT FITTING OF LOW PRESSURE DUCTWORK.						

HVAC IMPORTANT NOTES

1. VERIFY ALL EQUIPMENT CONNECTIONS WITH MANUFACTURER. PROVIDE DUCT TRANSITIONS TO FURNISHED EQUIPMENT. FIELD VERIFY AND COORDINATE ALL DIMENSIONS BEFORE FABRICATION. CONTRACTOR TO VERIFY ALL DUCTWORK, EQUIPMENT AND ACCESSORIES FIT IN THE SPECIFIED AREA PRIOR TO PURCHASE OF ITEMS.
2. VERIFY INSTALLED STRUCTURE PRIOR TO FABRICATION OF DUCTWORK OR EQUIPMENT. COORDINATE ALL DUCTWORK WITH JOIST AND STEEL SPACING. PROVIDE OFFSETS AND TRANSITIONS AROUND OBSTRUCTIONS AS REQUIRED. ALL DUCTWORK SHALL BE SUPPORTED PER SNACMA STANDARDS AND FLORIDA MECHANICAL CODE.
3. ALL DUCT SIZES SHOWN ARE INSIDE CLEAR DIMENSIONS. PROVIDE SPIN-IN CONE WITH LOCKING DAMPER AT EACH FLEXIBLE DUCT CONNECTED TO A DIFFUSER. PROVIDE DAMPER EXTENSION.
4. ACCESS PANELS IN DUCT WORK AND CEILINGS SHALL BE PROVIDED FOR OPERATION AND MAINTENANCE OF ALL FANS, HEATERS, VALVES, DAMPERS, AND MECHANICAL EQUIPMENT.
5. THE CUTTING OF STRUCTURAL AND/OR ARCHITECTURAL MEMBERS IS TO BE DONE ONLY WITH THE WRITTEN APPROVAL OF THE ARCHITECT AND STRUCTURAL ENGINEER.
6. THE CENTERLINE OF THE TEMPERATURE SENSORS SHALL BE LOCATED AT 48" AFF.
7. ALL DUCTS AND PIPING SHALL BE INSTALLED AS TIGHT AS POSSIBLE TO WALLS AND BEAMS.
8. PROVIDE FLEXIBLE DUCT CONNECTIONS ON AHU'S AND EXHAUST FANS. FLEX SHALL BE APPROXIMATELY 6" IN LENGTH.
9. SEE DETAILS AND SPECIFICATIONS FOR ALL EQUIPMENT, PIPING, AND DUCTWORK. PROVIDE ADDITIONAL SUPPORTS AS REQUIRED TO PROVIDE A VIBRATION FREE INSTALLATION.
10. PROVIDE AND INSTALL IONIZATION TYPE SMOKE DETECTORS IN SUPPLY AIR STREAM FOR FAN SHUTDOWN ON AIR HANDLING UNITS. SMOKE DETECTORS SHALL BE CONNECTED TO AUDIBLE. PROVIDE ACCESS FOR SMOKE DETECTORS IN DUCTWORK.
11. INSULATE THE BACKS OF EACH RETURN REGISTER AND SUPPLY DIFFUSER WITH A 2" THICK DUCTWRAP INSULATION. MINIMUM R-VALUE = R-6.
12. FLEXIBLE DUCT SHALL BE UL 181 RATED, MINIMUM R-VALUE = R-6.
13. COORDINATE WITH ALL TRADES INVOLVED IN THE PROJECT.
14. REFRIGERANT PIPE IS SIZED IN ACCORDANCE WITH BASIS OF DESIGN MANUFACTURER'S. APPROVED ALTERNATE EQUIPMENT SHALL HAVE THE PIPE SIZES REVISED IN ACCORDANCE WITH MANUFACTURER'S LINE LOSS SHALL NOT EXCEED ONE DEGREE FAHRENHEIT.
15. REFRIGERANT PIPING SHALL BE INSTALLED PER THE LATEST FLORIDA MECHANICAL CODE CHAPTER 11 SECTION 1107 AND LATEST ADOPTED ASHRAE 15 STANDARDS.
16. CONDENSATE DRAIN SHALL BE PVC. CONDENSATE TRAP DEPTH SHALL BE AS SHOWN ON DETAIL SHEET. INSULATE CONDENSATE LINES WITH ARMAFLEX 1" INSULATION.
17. OUTSIDE AIR INTAKES SHALL BE MINIMUM 15'-0" FROM ANY EXHAUST OUTLETS, PLUMBING VENTS, GAS VENTS, PROPERTY LINES, ETC.
18. DO NOT RUN ANY DUCTWORK ABOVE ELECTRICAL PANELS OR ELECTRICAL EQUIPMENT. COORDINATE WITH ELECTRICAL CONTRACTOR AS REQUIRED.
19. ALL FINISHES OR EQUIPMENT DAMAGED SHALL BE REPLACED TO MATCH ADJACENT FINISHES.
20. FIRE-STOP & SMOKE-STOP ALL EXISTING & NEW PENETRATIONS IN FIRE OR SMOKE RATED PARTITIONS, WALLS, FLOORS, ETC TO MAINTAIN PROPER RATINGS.
21. ALL PIPING IN PLENUM RETURN AREAS SHALL BE PLENUM RATED.
22. OUTDOOR DESIGN AMBIENT FOR ALL EQUIPMENT IS 95 DEGREES FDB/ 77 DEGREES FWB IN SUMMER AND 32 DEGREES FAHRENHEIT IN WINTER.
23. SET ALL HVAC SUPPLY, RETURN, AND EXHAUST SYSTEM AIR FLOW RATE TOLERANCES TO WITHIN PLUS 10 PERCENT (10%) OR MINUS ZERO PERCENT (0%).
24. MECHANICAL CONTRACTOR SHALL COORDINATE ALL ELECTRICAL REQUIREMENTS AND ACCESSORIES WITH ELECTRICAL CONTRACTOR PRIOR TO PURCHASE AND INSTALLATION AND SHALL BRING ANY DISCREPANCIES TO THE ATTENTION OF ENGINEER.
25. PROVIDE TEST, ADJUST & BALANCE REPORT TO THE ENGINEER OF RECORD. REPORT SHALL INCLUDE ENT/LVD TEMPERATURES, ELECTRICAL DATA, EQUIPMENT DATA, SUPPLY/RETURN/OA/EXHAUST CFMS, ETC.

HVAC LEGEND

- AHU-1 AIR HANDLING UNIT #1
EF-1 EXHAUST FAN #1
ESP EXTERNAL STATIC PRESSURE
HP HORSEPOWER
HPU-1 HEAT PUMP UNIT #1
kW KILOWATTS
MBH BTUH/1000
SEER SEASONAL ENERGY EFFICIENCY RATIO
FLEX RUN OUT
VOLUME DAMPER
MOTORIZED DAMPER
THERMOSTAT
NECK SIZE
CFM



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MECHANICAL
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NOTES & LEGEND

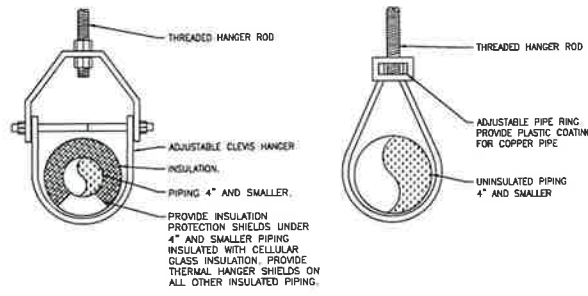
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Nashwan Haddad
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TO THE BEST OF THE ARCHITECT'S KNOWLEDGE, THE PLAN AND SPECIFICATIONS COMPLY WITH THE LATEST EDITIONS OF THE BUILDING CODES AND ORDINANCES, AND WITH THE APPROPRIATE STANDARDS.

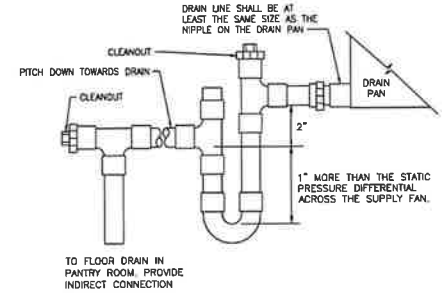
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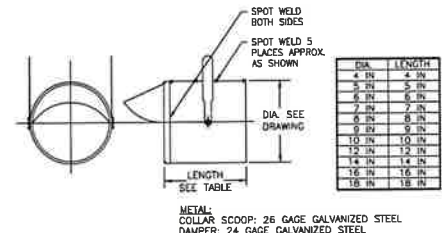
PIPE HANGER DETAILS
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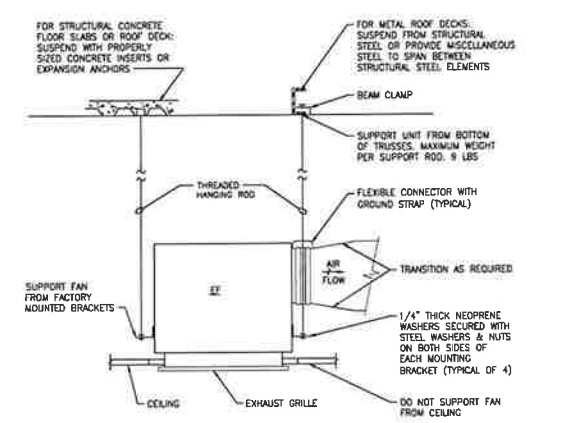
AIR HANDLING UNIT UNIT DRAIN TRAP
NOT TO SCALE

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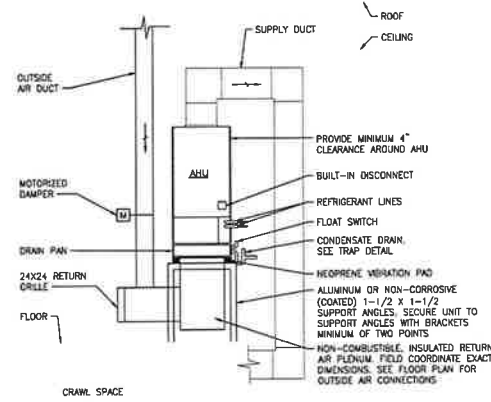
SPIN-IN COLLAR DETAILS
NOT TO SCALE

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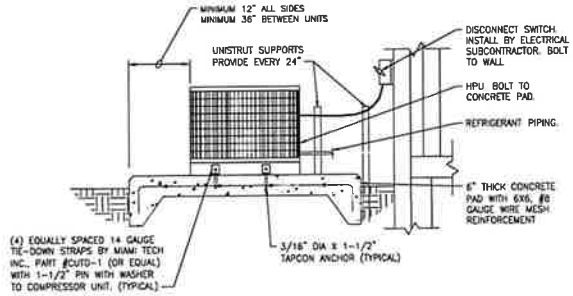
CABINET FAN MOUNTING DETAIL
NOT TO SCALE

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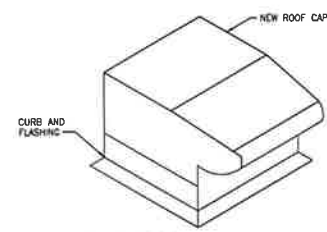
AIR HANDLING UNIT DETAIL
NOT TO SCALE

5
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HEAT PUMP UNIT DETAIL
NOT TO SCALE

6
M1.1



ROOF JACK DETAIL
NOT TO SCALE

7
M1.1



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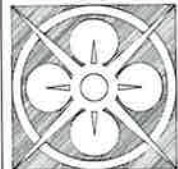
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MECHANICAL
DETAILS

M1.1

TO THE BEST OF THE KNOWLEDGE OF THE ENGINEER AND ARCHITECT, THE INFORMATION CONTAINED HEREIN IS TRUE AND CORRECT TO THE BEST OF THEIR KNOWLEDGE AND BELIEF.





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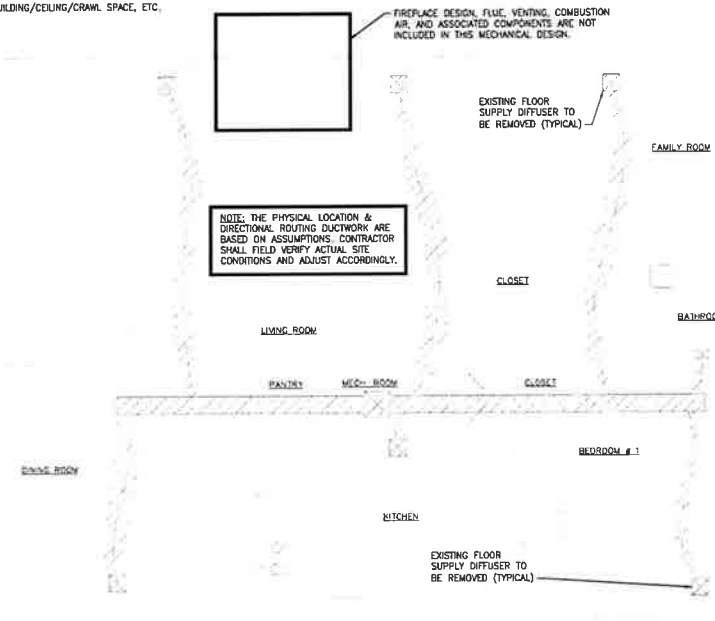
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DEMOLITION &
NEW FLOOR PLAN -
MECHANICAL

M2.0

NOTES:

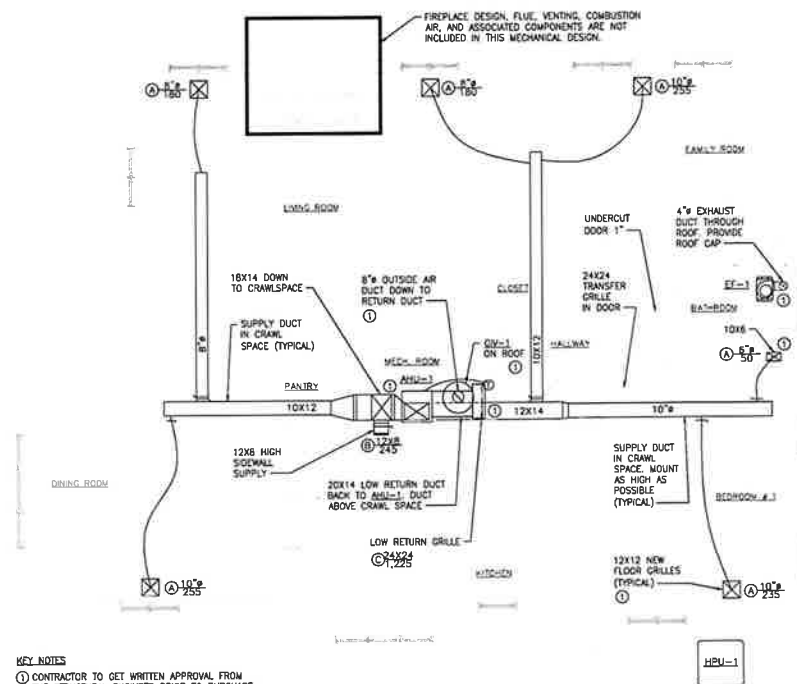
- 1) DRAWN MECHANICAL DUCTWORK, EQUIPMENT, AIR DISTRIBUTION DEVICES & ACCESSORIES ARE BASED ON ASSUMPTIONS. CONTRACTOR SHALL FIELD VERIFY ALL ITEMS PRIOR TO DEMOLITION AND REPORT TO THE ENGINEER OF RECORD FOR ANY DISCREPANCIES.
- 2) REMOVE ALL ABANDONED OR NON-OPERATIONAL MECHANICAL EQUIPMENT IN BUILDING/CEILING/CRAWL SPACE, ETC.



DEMOLITION FLOOR PLAN - MECHANICAL

SCALE 1/4" = 1'-0"

MECHANICAL ITEMS TO BE REMOVED



NEW FLOOR PLAN - MECHANICAL

SCALE 1/4" = 1'-0"

KEY NOTES

- 1) CONTRACTOR TO GET WRITTEN APPROVAL FROM THE STRUCTURAL ENGINEER PRIOR TO PURCHASE OR INSTALLATION. COORDINATE AS REQUIRED.

TO THE BEST OF THE ENGINEER'S KNOWLEDGE, THE PLAN AND SPECIFICATIONS COMPLY WITH THE APPROPRIATE LOCAL, STATE AND FEDERAL REQUIREMENTS AND STANDARDS.

THIS PLAN HAS BEEN PREPARED AND DESIGNED BY A PROFESSIONAL ENGINEER. THE DESIGN IS BASED ON THE INFORMATION PROVIDED BY THE CLIENT AND THE ENGINEER'S VISUAL INSPECTION OF THE SITE. THE ENGINEER DOES NOT GUARANTEE THE ACCURACY OF THE INFORMATION PROVIDED BY THE CLIENT.



MECHANICAL SPECIFICATIONS

SECTION 1 - GENERAL

STANDARDS AND ASSOCIATIONS:

- A. THE FOLLOWING CODES AND REGULATIONS SHALL, IN ADDITION TO THOSE LISTED ABOVE, APPLY TO WORK AND SYSTEMS COVERED BY THIS SECTION. THE LATEST EDITION SHALL BE USED FOR ALL:
1. NFPA 80A & 80B - AIR CONDITIONING AND VENTILATION SYSTEMS.
 2. NFPA 91 - BLOWER AND EXHAUST SYSTEMS.
 3. NFPA 101 - LIFE SAFETY CODE.
 4. NFPA 703 - FIRE RETARDANT TREATMENTS OF BUILDING MATERIALS.
 5. NFPA 255 - BUILDING MATERIALS TEST OF SURFACE BURNING CHARACTERISTICS.
 6. ASTM E2475 - METHOD OF TEST FOR SURFACE BURNING CHARACTERISTICS OF BUILDING MATERIALS
 7. UL - 725.
 8. LOCAL GOVERNING BUILDING CODE.
- B. ALL MECHANICAL SYSTEMS SHALL BE INSTALLED IN ACCORDANCE WITH THE APPLICABLE LOCAL LATEST BUILDING CODE, AND ALL APPLICABLE SECTIONS OF THE FOLLOWING STANDARDS, LATEST EDITION: "ASHRAE", "AMCA", "ANSI", "ARI", "ASME", "ASTM", "CITY", "NFPA", "SMACNA", "UL".

GENERAL REQUIREMENTS:

- A. FURNISH ALL MATERIALS, EQUIPMENT AND ACCESSORIES FOR A COMPLETE AND OPERABLE SYSTEM.
- B. THE FOLLOWING DATA WAS USED FOR THE THERMAL LOAD CALCULATIONS FOR THIS BUILDING:
1. INDOOR DESIGN: SUMMER 75 DB @ 50% RH
 2. OUTDOOR DESIGN: 95 DEG. F @ 77 DEG. F Wb IN SUMMER AND 32 DEG. F IN WINTER
- C. CONTRACTOR SHALL VISIT THE SITE AND VERIFY ALL EXISTING CONDITIONS AND COMPARE TO THE DRAWINGS. PRIOR TO ANY BIDDING, PURCHASE OF MATERIALS OR CONSTRUCTION, CONTRACTOR SHALL CONTACT THE ARCHITECT/ENGINEER OF RECORD FOR ANY DISCREPANCIES.
- D. LOCATION OF PIPING, DUCTS, CEILING DIFFUSERS, ETC. SHALL BE COORDINATED BEFORE MATERIAL OR EQUIPMENT IS INSTALLED SO THAT THERE WILL BE NO INTERFERENCE.
- E. WORK LINES AND ESTABLISHED HEIGHTS SHALL BE IN STRICT ACCORDANCE WITH PLANS AND SPECIFICATIONS. SET ALL SLEEVES, ANCHORS, BOLTS, AND/OR INSERTS BEFORE CONCRETE IS POURED.
- F. ALL MATERIALS AND LABOR REGARDING SITE WORK, WEATHER PROOFING, WALL AND ROOF OPENINGS, CUTTING, PATCHING, ETC. SHALL BE DONE BY THE GENERAL CONTRACTOR.
- G. WHERE WORK MUST PIERCE WATERPROOFING, IT SHALL BE DONE WITH CARE AND AFTER ITEM PIERCING WATERPROOFING HAS BEEN SET IN PLACE. THE OPENING MADE FOR THIS PURPOSE SHALL BE SEALED AND MADE ABSOLUTELY WATERPROOF.
- H. OUTDOOR INSTALLED EQUIPMENT SHALL COMPLY WITH ALL LOCAL NOISE REGULATIONS AND ORDINANCES. IT SHALL NOT EXCEED A NOISE LEVEL OF 65 DECIBELS AS MEASURED RADIALLY 30 FEET FROM THE EQUIPMENT IN ALL DIRECTIONS. IF REQUIRED, PROVIDE ACOUSTIC INSULATION.
- I. ALL SYSTEMS UNDER THIS SECTION SHALL BE FULLY BALANCED BEFORE FINAL ACCEPTANCE TO ACHIEVE OPTIMUM PERFORMANCE CHARACTERISTICS.
- J. PROVIDE CONNECTIONS TO ALL EQUIPMENT (INCLUDING KITCHENS) FURNISHED BY OWNER OR OTHER CONTRACTORS, INCLUDING MATERIALS AND NECESSARY APPURTENANCES REQUIRED TO COMPLETE THE INSTALLATION.
- K. ALL OPENINGS IN BUILDING STRUCTURES FOR PASSING OF MECHANICAL DUCTWORK, PIPING, ETC. SHALL BE 1/2" LARGER ON ALL SIDES (OR AS REQUIRED FOR FIRE-STOPPING) THAN OUTSIDE DIMENSIONS OF PASSING ELEMENT. INTERSTITIAL VOIDS SHALL BE FILLED WITH FIRE RESISTANT MATERIAL AS MANUFACTURED BY "THERMOFIRE", "3M" OR OTHER APPROVED MANUFACTURER.
- L. PROVIDE A MIN. OF 36" CLEARANCE IN FRONT OF ALL 120-240 VOLT PANELS AND 48" CLEARANCE IN FRONT OF ANY 277-480 VOLT PANELS WITH ADEQUATE SIDE CLEARANCE PER NEC REQUIREMENTS.
- M. PROVIDE MIN. 15'-0" CLEARANCE BETWEEN OUTSIDE AIR INTAKES AND ANY EXHAUST OPENINGS, PLUMBING VENTS, ETC. COORDINATE WITH PLUMBING AND ARCHITECTURAL DRAWINGS.
- N. ALL EXHAUST FANS SHALL BE PROVIDED WITH BACK-DRIFT DAMPERS WITH TIGHT SEAL.
- O. ALL MECHANICAL EQUIPMENT SHALL BE PROVIDED WITH VIBRATION ISOLATORS AS SPECIFIED ON DETAILS AND AS RECOMMENDED BY MANUFACTURER FOR NORMAL OPERATION WITHIN PRESCRIBED NOISE AND VIBRATION LIMITS.
- P. PROVIDE 4"-6" FLEXIBLE CONNECTORS BETWEEN DISTRIBUTION SYSTEM AND AIR OR WATER MOVING EQUIPMENT: AHU'S, FANS, PUMPS, ETC.
- Q. CONTRACTOR SHALL UNDERCUT DOORS 3/4" (MAX. 50 CFM) TO PROVIDE REQUIRED VENTILATION FOR UTILITY ROOMS, ELECTRICAL ROOMS, TOILETS, ETC.
- R. INSTALL ALL EQUIPMENT, ACCESSORIES AND MATERIALS IN ACCORDANCE WITH MANUFACTURERS PUBLISHED RECOMMENDATIONS.
- S. PROTECTION OF DUCTWORK DURING CONSTRUCTION: THE OPEN ENDS OF UNFINISHED SECTIONS OF DUCTWORK INCLUDING FAN OUTLETS, TAPPINGS FOR AIR OUTLETS, ETC., SHALL BE PROPERLY CAPPED AT ALL TIMES DURING CONSTRUCTION.
- T. THE CUTTING OF STRUCTURAL AND/OR ARCHITECTURAL MEMBERS IS TO BE DONE ONLY WITH THE WRITTEN APPROVAL OF THE ARCHITECT AND STRUCTURAL ENGINEER.
- U. PROVIDE AS-BUILT DRAWINGS TO ENGINEER OF RECORD.

PRODUCT DELIVERY, STORAGE AND HANDLING

- A. DELIVERY: DELIVER PRODUCTS TO JOB SITE IN THEIR ORIGINAL UNOPENED CONTAINERS CLEARLY LABELED WITH THE MANUFACTURER'S NAME AND BRAND DESIGNATION.
- B. STORAGE: STORE PRODUCTS IN A DRY AREA; PROTECT FROM CONTACT WITH SOIL AND FROM EXPOSURE TO THE ELEMENTS.
- C. HANDLING: HANDLE PRODUCTS SUCH THAT IT WILL PREVENT BREAKAGE OF CONTAINERS AND DAMAGE TO PRODUCTS.
- PERMITS AND FEES:
- A. THE CONTRACTOR SHALL PROVIDE ALL LABOR, MATERIALS,

EQUIPMENT AND NECESSARY ACCESSORIES (I.E. WIRING, CONTROLS, DEVICES, ETC.) AND SHALL PAY FOR ALL PERMITS, FEES, INSPECTIONS AND ALL OTHER INCIDENTAL COSTS AND SERVICES NECESSARY FOR THE INSTALLING AND TESTING OF A COMPLETE OPERABLE AND SERVICEABLE MECHANICAL SYSTEM.

WARRANTY:

A. CONTRACTOR SHALL PROVIDE WARRANTY FOR A PERIOD OF ONE YEAR AFTER BUILDING C.O. FOR ALL MECHANICAL SYSTEMS, DUCTWORK, CONTROLS, ACCESSORIES, PARTS, LABOR, ETC. CONTRACTOR SHALL PROVIDE WARRANTY FOR COMPRESSORS FOR (5) FIVE YEARS.

MATERIALS:

- A. ALL MATERIALS SHALL BE NEW AND OF GOOD QUALITY. ALL WORKMANSHIP AND MATERIALS SHALL BE IN ACCORDANCE WITH ALL APPLICABLE CODES, PRODUCT APPROVALS, RULES AND ORDINANCES. ALL EMPLOYED INSTALLING PROCEDURES, METHODS AND TECHNOLOGIES SHALL CONFORM TO ESTABLISHED INDUSTRY STANDARDS AND GOOD ENGINEERING PRACTICE. ANY DAMAGED EQUIPMENT SHALL BE REPLACED AS REQUIRED.
- B. ALL MECHANICAL EQUIPMENT AND MATERIALS SHALL BE RATED FOR THE REQUIRED SERVICE, PRESSURES, TEMPERATURES, VOLTAGE, ETC.
- C. STORE AND PROTECT ALL MATERIALS FROM DAMAGE. MATERIALS SHALL BE KEPT CLEAN AND DRY. FREE FROM DETEIORATION. DAMAGED MATERIALS SHALL NOT BE INSTALLED AND REPLACED.
- D. ALL EQUIPMENT AND MATERIALS SHALL BE SET LEVEL, PROPERLY ALIGNED, SECURED FIRMLY IN PLACE AND BOLTED TOGETHER WHERE IN SECTIONS, AND INSTALLED COMPLETE.
- E. FOLLOW INSTALLATION DIRECTIONS AND RECOMMENDATIONS OF MATERIAL AND EQUIPMENT MANUFACTURERS.
- F. ALL ENCLOSURES, ACCESS PANELS, FIXTURES AND ALL OTHER EQUIPMENT OR ACCESSORIES SHALL BE FACTORY PAINTED OR FINISHED EXCEPT AS INDICATED ON DRAWINGS.
- G. GROUP MOUNTED ITEMS SHALL BE SIMILAR IN FINISH AND COLOR.
- SUBMITTALS:
- A. SHOP DRAWINGS: CONTRACTOR SHALL SUBMIT TO THE ENGINEER FOR REVIEW AND APPROVAL: A COPY OF MANUFACTURER SUBMITTAL DATA SHEETS OF ALL EQUIPMENT, MATERIALS, DEVICES, ACCESSORIES AND FINISHES AS SPECIFIED BY IN THE ENGINEERING DOCUMENTS AND SPECIFICATIONS. REVIEW OF EQUIPMENT AND MATERIAL SUBMITTAL SHALL IN NO WAY RELIEVE THE CONTRACTOR OF THE RESPONSIBILITY TO COMPLY WITH PLANS, SPECIFICATIONS AND CODE REQUIREMENTS. ANY SUBSTITUTIONS SHALL BE PRE-APPROVED BY ARCHITECT AND OWNER AND SHALL BE CONTRACTOR'S RESPONSIBILITY TO INSURE FULL COMPLIANCE WITH THE ORIGINAL DESIGN PER PLANS AND SPECIFICATIONS.

SECTION 2 - EQUIPMENT, PRODUCTS & MATERIALS

SHEETMETAL DUCTWORK

- A. DUCTWORK SHALL BE GALVANIZED SHEETMETAL WITH SEALED SEAMS AND JOINTS WITH EXTERNAL INSULATION. PROVIDE PROTECTIVE JACKET & SEAL WHERE EXPOSED. HVAC CONTRACTOR SHALL PROVIDE ALL SHEETMETAL DUCTWORK, HANGERS, AUXILIARY SUPPORT STEEL, ACCESSORIES, ETC.
- B. ALL DUCT SIZES SHOWN ON DRAWINGS ARE INSIDE CLEAR DIMENSIONS.
- C. ALL METAL DUCTS SHALL BE FABRICATED IN ACCORDANCE WITH ALL RECOMMENDATIONS AND ILLUSTRATIONS IN THE LATEST ISSUE OF THE DUCT MANUAL AND SHEET METAL CONSTRUCTION FOR VENTILATING AND AIR CONDITIONING SYSTEMS BOOK, LOW & MEDIUM VELOCITY SYSTEMS, PUBLISHED BY SMACNA.
- D. DUCT GAUGES FOR SHEET METAL WORK SHALL CONFORM TO TABLES IN SMACNA MANUAL, EXCEPT NO PLAIN "S" OR HEMMED "S" WILL BE ALLOWED ON DUCTS OVER 16" LONGITUDINAL SEAMS SHALL BE OF PITTSBURGH LOCK.
- E. ANGLE REINFORCEMENT SHALL BE ON 4 FOOT CENTERS FOR ALL DUCTS OVER 48 INCHES. ANGLES SHALL BE LOCATED AT THE CENTER OF CROSS-BREAK ON ALL FOUR SIDES OF DUCT.
- F. DUCT HANGERS SHALL BE AS PER SMACNA MANUAL.
- G. TURNING VANES SHALL BE INSTALLED IN ALL BENDS OVER 45 DEGREES. ANGLE DUCT BENDS SHALL NOT BE USED. TURNING VANES OVER 16" LONG SHALL BE DOUBLE THICKNESS AIR FOL TYPE. ALL BENDS AND DUCT RACES SHALL BE O.G. TYPE FITTINGS OR RADIUS ELBOWS.
- H. SHEET METAL DUCT CONNECTIONS TO EACH VIBRATION ISOLATED EQUIPMENT ITEM SHALL BE MADE WITH FIREPROOF FLEXIBLE CONNECTIONS. FLEXIBLE CONNECTORS OUTDOOR SHALL BE NEOPRENE GLASS CLOTH REINFORCED FABRIC SECURELY FASTENED TO METAL CONNECTORS. INDOOR FLEXIBLE CONNECTIONS MAY BE GLASS FABRIC, TREATED HEAVY CANVAS FABRIC, SUITABLE FOR DUCT AIR PRESSURES WITH SECURELY ATTACHED METAL CONNECTORS.
- I. DUCT SUPPORTS SHALL BE NOT LESS THAN THE SIZES IN THE FOLLOWING TABLE:
- | MAXIMUM DUCT DIMENSION | BAND SPACING | BAND SIZE |
|------------------------|--------------|------------------|
| 1 THRU 18" | 8'-0"-O.C. | 16 GAUGE 1" WIDE |
| 19 THRU 30" | 8'-0"-O.C. | 16 GAUGE 1" WIDE |
| 31 THRU 36" | 6'-0"-O.C. | 1/8X1-1/2" |
- J. ALL DUCTS SHALL BE REINFORCED (CROSS-BROKEN OR BEADED) AS REQUIRED BY SMACNA.
- K. VOLUME DAMPERS: AT ALL POINTS WHERE BRANCH DUCTS TAKE OFF FROM A MAIN TRUNK DUCT OR WHERE A DUCT DIVIDES, FURNISH AND INSTALL AN ADJUSTABLE SPLITTER DAMPER OF GALVANIZED STEEL, SECURELY FASTENED TO A 3/8" SQUARE STEEL OPERATING ROD. VOLUME DAMPER TO BE COMPLETE WITH LOCKING QUADRANT SHOWING ALL POSITIONS. PROVIDE DAMPER INSULATION BRACKET EXTENSION.

FLEXIBLE DUCT

PROVIDE UL 181, CLASS 1 AIR DUCTS MANUFACTURED WITH A DOUBLE LAMINATION OF POLYESTER WHICH ENCAPSULATES A STEEL WIRE HELIX THAT IS THEN WRAPPED IN MULTIPLE THICKNESS OF FIBERGLASS INSULATION WITH A METALLIZED POLYESTER JACKET. MINIMUM R VALUE OF 6.0.

DUCTWORK INSULATION

A. AIR CONDITIONING SHEETMETAL DUCTS SHALL BE INSULATED WITH 2 INCH THICK, 1-1/2 POUND DENSITY (R-6) FIBERGLASS DUCT INSULATION WITH A DISAPPROVED FIRE RESISTING REINFORCED ALUMINUM FOL VAPOR SEAL FACING. JOINTS SHALL BE SEALED WITH FIRE RESISTING MASTIC. DUCT TAPE IS NOT ACCEPTABLE.

- B. MANUFACTURERS SHALL BE JOHNS-MANVILLE, OWENS-CORNING OR ARMSTRONG.
- C. PROVIDE INSULATION OVER CLEAN DRY SURFACES WITH JOINTS FIRMLY BUTTED TOGETHER. FOR PRESSZED GLASS CLOTH OR VAPOR BARRIER JACKETS, LONGITUDINAL LAP SHALL OVERLAP NOT LESS THAN 1-1/2 INCH. BUTT JOINTS SHALL BE WRAPPED WITH A 3 INCH WIDE STRIP OF THE SAME MATERIAL AS JACKET.
- D. INSULATION SHALL NOT BE APPLIED UNTIL THE ENTIRE SYSTEM HAS BEEN TESTED AND APPROVED.
- E. INSULATION SHALL HAVE A FIRE/SMOKE RATING LESS THAN 25/50.
- F. VAPOR BARRIER SHALL BE INTACT AND CONTINUOUS. USE GLASS CLOTH AND MASTIC FOR VAPOR BARRIER SEALANT. THE USE OF TAPE IS NOT PERMITTED.

EXHAUST FANS

- A. GENERAL: PROVIDE DIRECT DRIVE CENTRIFUGAL FANS OF QUANTITIES, SIZES, ARRANGEMENTS, AND TYPES AS SPECIFIED ON THE SCHEDULES.
- B. COMPLETE FAN UNITS: PROVIDE FACTORY DESIGNED, ASSEMBLED, AND TESTED FANS, EACH CONSISTING OF A HOUSING, FANWHEEL SHAFT, BEARINGS, STRUCTURAL SUPPORTS, MOTOR, AND ACCESSORIES SPECIFIED/SCHEDULED.
- C. HOUSINGS: PROVIDE HEAVY GAUGE ALUMINUM HOUSINGS WITH EXTERNAL FASTENERS OF STAINLESS STEEL. ALL OTHER PARTS SHALL BE ZINC PLATED AND CHROMATE TREATED STEEL TO PREVENT CORROSION.
- D. WHEELS: PROVIDE SINGLE WIDTH, SINGLE INLET CENTRIFUGAL WHEELS ON ALL FANS, AS SCHEDULED.
1. PROVIDE FORWARD CURVED ALUMINUM WHEELS.
 2. STATICALLY AND DYNAMICALLY BALANCE ALL WHEELS.
- E. MOTORS: PROVIDE EACH FAN WITH AN OPEN DRIP-PROOF SOURCEL CAGE INDUCTION MOTOR WITH BALL OR SLEEVE BEARINGS, CONFORMING TO NEMA MG 1.
- F. PROVIDE NON-FUSED DISCONNECT SWITCH COMPLETE WITH FACTORY WIRING AND MOUNTING.
- G. PROVIDE VIBRATION ISOLATION HANGERS AND FLEXIBLE CONNECTIONS.

AIR DISTRIBUTION PRODUCTS:

- A. AIR DISTRIBUTION PRODUCTS: GRILLES, REGISTERS AND DIFFUSERS SHALL BE THE PRODUCTS OF ONE MANUFACTURER (METALARE). EQUIVALENT MODELS AND UNITS ARE AS BY: PRICE, MEETING THE SAME PERFORMANCE SOUND, TERMINAL VELOCITIES AND DIFFUSION CHARACTERISTICS, DIFFUSERS, GRILLES AND REGISTERS SHALL BE CONSTRUCTED ENTIRELY OF ALUMINUM WITH CLEAN ACRYLIC LACQUER FINISH. COLOR SUBJECT TO ARCHITECT'S APPROVAL.
- B. CEILING AND SIDEWALL DIFFUSERS SHALL BE AS SCHEDULED WITH OPPOSED BLADE DAMPER WITH FRAME TYPE COMPATIBLE WITH CEILING/WALL TYPE.
- C. RETURN REGISTERS SHALL BE AS SCHEDULED OR AS APPROVED WITH SINGLE DEFLECTION BLADES AND OPPOSED BLADE DAMPER. FRAME TYPE COMPATIBLE WITH CEILING TYPE.
- D. TWO SADDLE HANGERS SHALL BE UTILIZED ON EITHER SIDE OF THE COLLARS TO PROVIDE ADJUST SUPPORT FOR THE SYSTEM AT THAT POINT IN SUCH MANNER THAT THE HANGERS TAKE UP THE WEIGHT OF DIFFUSERS/GRILLES AND COLLAR.

ACCESS DOORS:

A. FURNISH AND INSTALL ACCESS DOORS IN DUCTS AT ALL CONTROLS, FIRE DAMPERS, OR OTHER APPARATUS TO PERMIT INSPECTION, OPERATION AND MAINTENANCE. PROVIDE DOUBLE PANEL INSULATED ACCESS DOORS FABRICATED OF MINIMUM 20 GAUGE METAL IN INSULATED DUCTS. PROVIDE SHAKE PANEL DOORS FABRICATED OF MINIMUM 18 GAUGE GALVANIZED METAL IN UN-INSULATED DUCTS.

DX-SPLIT SYSTEM UNITS:

- A. GENERAL: COOLING PERFORMANCE SHALL BE RATED IN ACCORDANCE WITH ARI TESTING PROCEDURE. ALL UNITS SHALL BE FACTORY ASSEMBLED, INTERNALLY WIRED, FULLY CHARGED WITH REFRIGERANT AND RUN TESTED TO CHECK COOLING OPERATION, FAN AND BLOWER ROTATION AND CONTROL SEQUENCE BEFORE LEAVING THE FACTORY.
- B. CASING: UNIT CASING SHALL BE CONSTRUCTED OF ZINC COATED, HEAVY GAUGE, GALVANIZED STEEL. ALL COMPONENTS SHALL BE MOUNTED IN WEATHER RESISTANT STEEL CABINET WITH A PAINTED EXTERIOR. CABINET CONSTRUCTION SHALL ALLOW FOR ALL MAINTENANCE ON ONE SIDE OF THE UNIT. THE INDOOR AIR SECTION SHALL BE COMPLETELY INSULATED WITH FIRE RESISTANT, PERMANENT, ODORLESS GLASS FIBER MATERIAL.
- C. FILTERS: TWO INCH, THROWAWAY FILTERS SHALL BE STANDARD ON ALL UNITS.
- D. COMPRESSORS: ALL UNITS SHALL BE DIRECT-DRIVE HERMETIC TYPE COMPRESSORS WITH OIL PUMP PROVIDING POSITIVE LUBRICATION TO MOVING PARTS. CRANKCASE HEATER, INTERNAL TEMPERATURE AND CURRENT SENSITIVE MOTOR OVERLOADS SHALL BE INCLUDED FOR MAXIMUM PROTECTION. THE UNITS SHALL HAVE INTERNAL SPRING ISOLATION AND SOUND MUFFLING TO MINIMIZE VIBRATION TRANSMISSION AND NOISE. LOW PRESSURE SWITCHES SHALL BE STANDARD.
- E. REFRIGERANT CIRCUITS: EACH REFRIGERANT CIRCUIT SHALL HAVE INDEPENDENT THERMAL EXPANSION VALVES, SERVICE PRESSURE PORTS AND REFRIGERANT LINE FILTER DRIERS FACTORY-INSTALLED AS STANDARD. AN ACCESS AREA SHALL BE PROVIDED FOR REPLACEMENT OF SUCTION LINE DRIERS.
- F. EVAPORATOR AND CONDENSER COILS: INTERNALLY FINNED COPPER TUBES MECHANICALLY BONDED TO CONFIGURED ALUMINUM PLATE FIN SHALL BE STANDARD. ON ALL MULTIPLE COMPRESSOR MODELS, THE EVAPORATOR COIL SHALL BE INTERMIXED CONFIGURATION OF FULL FACE ACTIVE DESIGN.
- G. OUTDOOR FANS: THE OUTDOOR FAN SHALL BE DIRECT-DRIVE STATICALLY AND DYNAMICALLY BALANCED, DRAW THROUGH IN THE VERTICAL DISCHARGE POSITION. THE FAN MOTORS SHALL BE PERMANENTLY LUBRICATED AND HAVE BUILT-IN THERMAL OVERLOAD PROTECTION.
- H. INDOOR FAN UNITS SHALL HAVE DIRECT DRIVE, FC, CENTRIFUGAL FANS WITH ADJUSTABLE MOTOR SHEAVES. ALL MOTORS SHALL BE THERMALLY PROTECTED.

I. ELECTRIC HEATERS - ELECTRIC HEAT MODULES SHALL BE AVAILABLE FOR INSTALLATION WITHIN BASIC UNIT. ELECTRIC HEATER ELEMENTS SHALL BE CONSTRUCTED OF HEAVY DUTY NICKEL, CHROMIUM ELEMENTS AND SHALL HAVE AUTOMATICALLY RESET HIGH LIMIT CONTROL. OPERATING THROUGH HEATING ELEMENT, POWER ASSEMBLIES SHALL PROVIDE SINGLE-POINT CONNECTION. ELECTRIC MODULES SHALL BE UL LISTED.

J. MOTORIZED OUTSIDE AIR DAMPERS - OUTSIDE AIR DAMPERS SHALL FULLY CLOSE WHEN INDOOR FAN SHUTS DOWN.

K. NEW CURBS FOR HPUS - THE CURB SHALL BE 6" THICK AND DESIGNED TO PROVIDE SUPPORT. CURB DESIGN SHALL COMPLY WITH NRCA AND LOCAL CODE REQUIREMENTS. SEE DRAWING DETAILS.

REFRIGERANT PIPING:

A. REFRIGERANT LINES SHALL BE COPPER, TYPE "A" HARD DRAWN WITH WROUGHT COPPER SOLDER-JOINT TYPE FITTINGS. USE SILVER SOLDER. REFRIGERANT LINES SHALL BE SIZED PER MANUFACTURER RECOMMENDATIONS. ARMAFLEX 1" INSULATION SHALL BE USED FOR SUCTION LINES AND LIQUID LINES. PROVIDE CORRUGATED ALUMINUM JACKET FOR ALL INSULATED PIPE AND FITTINGS. FILTER/DRYER AND SIGHT GLASS SHALL BE PROVIDED FOR LIQUID LINES.

CONDENSATE PIPING:

A. CONDENSATE DRAIN SHALL BE PVC. CONDENSATE TRAP DEPTH SHALL BE AS SHOWN IN DETAIL ON DETAIL SHEET FOR ALL AHU'S. INSULATE CONDENSATE LINES WITH ARMAFLEX 1" INSULATION.

SECTION 3 - EXECUTION

AUTOMATIC TEMPERATURE CONTROLS:

- A. ALL CONTROLS SHALL BE INSTALLED, TESTED AND CALIBRATED BY THE CONTROL COMPANY, AS SPECIFIED ON PLANS.
- B. PROVIDE NEW DIGITAL 7-DAY PROGRAMMABLE TYPE THERMOSTAT RECOMMENDED BY MANUFACTURER. THERMOSTAT SHALL BE COOLING-HEATING COMBINATION OF STAGES MATCHING THE AIR CONDITIONING EQUIPMENT, WITH "COOL-AUTO-HEAT-OFF" AND FAN "AUTO-ON-OFF" SELECTOR SWITCHES. PROVIDE TAMPERPROOF COVER.
- C. ALL THERMOSTATS SHALL BE INSTALLED AS INDICATED ON PLANS OR AS REQUIRED/APPROVED BY OWNER AND ENGINEER. ALL THERMOSTATS SHALL BE INSTALLED AS PER THE A.D.A. CODE REQUIREMENTS WHERE APPLICABLE.

TESTING AND BALANCING:

- A. MECHANICAL CONTRACTOR SHALL PROVIDE AN INDEPENDENT TEST AND BALANCE OF ALL MECHANICAL EQUIPMENT (AHU'S, FANS, PUMPS, ETC.), AIR DISTRIBUTION DEVICES (DIFFUSERS, GRILLES, REGISTERS, DAMPERS, ETC.) TO ACHIEVE THE DESIGN QUANTITIES AND FLOW RATES AS NOTED ON THE PLANS AND SCHEDULES. THE SUBMITTED TAB REPORT SHALL BE IN ACCORDANCE WITH THE AIR BALANCE COUNCIL STANDARDS. PROVIDE AIR AND WATER FLOW QUANTITIES, TEMPERATURES, VELOCITIES. CONTRACTOR SHALL PROVIDE ALL DEVICES AND ACCESSORIES AS NECESSARY FOR FINAL BALANCING OF ALL SYSTEMS FOR PROPER OPERATION TO THE SATISFACTION OF OWNER AND ENGINEER.
- B. SYSTEM COMPONENT CAPACITY: RECORD AND CALCULATE ALL DATA NECESSARY TO DEMONSTRATE CAPACITY UNDER ACTUAL OPERATING CONDITIONS, AND ADJUST DAMPERS, TO OBTAIN A SUITABLE OPERATING BALANCE FOR EACH SYSTEM. RECORD DATA FOR EACH ITEM OR EQUIPMENT, TOGETHER WITH CONCURRENT OUTSIDE AIR DRY BULB AND WET BULB TEMPERATURES, TO PERMIT EVALUATION OF TOTAL SYSTEM PERFORMANCE. DATA TO INCLUDE THE FOLLOWING:
1. SUPPLY AND RETURN AIR QUANTITIES FOR EACH AIR GRILLE.
 2. ENTERING AND LEAVING AIR DRY BULB AND WET BULB TEMPERATURE
 3. TEST AND ADJUST EACH GRILLE REGISTER TO WITHIN PLUS 10 PERCENT (10X) OR MINUS ZERO PERCENT (0X).
 4. IN READING AND TEST OF DEFUSERS, GRILLES AND REGISTERS, INCLUDE REQUIRED FPM VELOCITY, AND REQUIRED CFM AFTER ADJUSTMENTS.
- C. TESTING AND BALANCING OF AIR CONDITIONING SYSTEMS AS DESCRIBED IN THIS SECTION SHALL NOT BE PERFORMED UNTIL ALL SYSTEM COMPONENTS HAVE BEEN INSTALLED INCLUDING CONTROL DEVICES.
- D. AFTER COMPLETION OF TESTS, 1 COPY OF A TEST REPORT INCLUDING PROCEDURES, METHODS AND RECORDED RESULTS SHALL BE DELIVERED TO THE ARCHITECT/ENGINEER ELECTRONICALLY.

INSTRUCTIONS TO OWNER:

A. THE AIR CONDITIONING SUB CONTRACTOR SHALL DEMONSTRATE THAT ALL SYSTEMS ARE FUNCTIONAL, DURING THE HEATING AND COOLING SEASONS. IN FULL ACCORDANCE WITH THE INTENT OF THE PLANS AND SPECIFICATIONS, AND SHALL INSTRUCT THE OWNER OR HIS REPRESENTATIVE IN THE OPERATION OF THE SYSTEMS.

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Preservation Improvements for
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MECHANICAL
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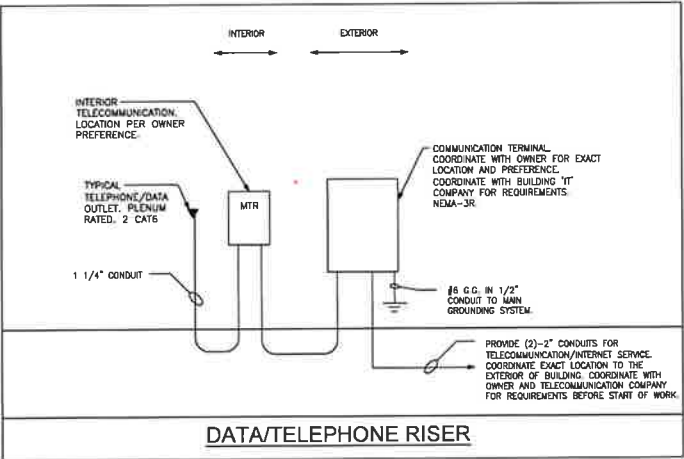
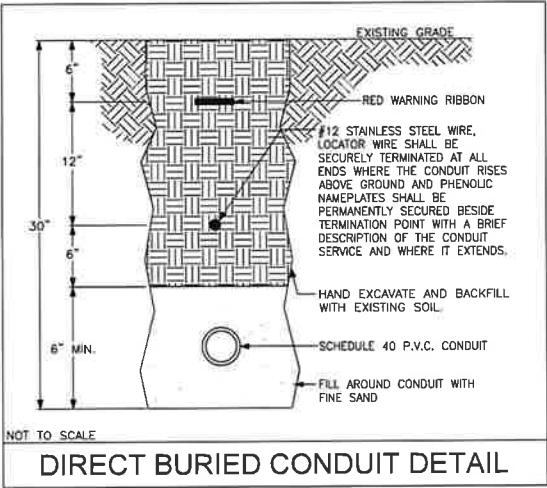
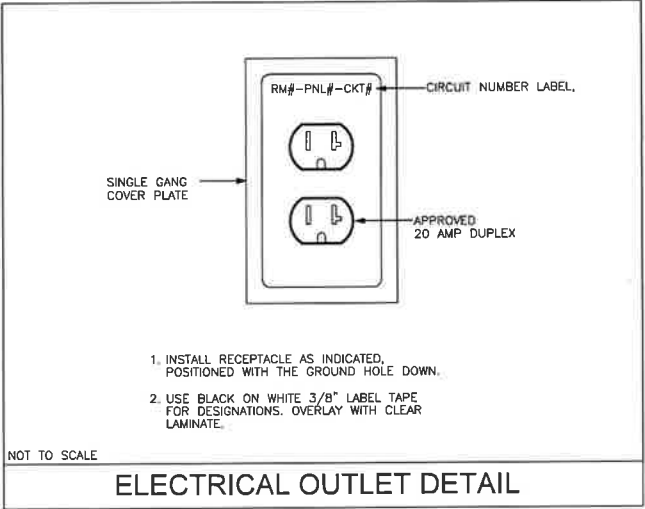
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GENERAL NOTES

- ALL SALVAGEABLE ITEMS ASSOCIATED WITH THE SCOPE OF WORK SHALL BE OWNER PROPERTY AT HIS OPTION. COMPONENTS THAT ARE UNSALVAGEABLE SHALL BE REMOVED FROM THE SITE.
- DRAWINGS SHOW APPROXIMATE LOCATIONS OF OUTLETS. THE EXACT LOCATIONS WILL BE DETERMINED BY THE OWNER REPRESENTATIVES. THE OWNER SHALL RESERVE THE RIGHT TO RELOCATE ANY NEW OUTLETS NO MORE THAN 10' FROM THE LOCATION SHOWN ON DRAWING DURING CONSTRUCTION. ROUGH-IN. THE WORK WILL BE DONE AT NO ADDITIONAL COST.
- DO NOT USE PLASTIC ANCHORS FOR PANELS, CONDUITS, OR ANY COMPONENTS.
- ALL ELECTRICAL PANELS MODIFIED PER SCOPE OF THE PROJECT. CONTRACTOR TO VERIFY AND TRACE EXISTING CIRCUITING AND DOCUMENT IT ON A COMPUTER GENERATED PRINTOUT THAT WILL BE ATTACHED INSIDE THE ELECTRICAL PANEL.
- PROPERLY SEAL ALL NEW PENETRATIONS IN FIRE RATED ASSEMBLIES. BOTH VERTICAL AND HORIZONTAL. IN ACCORDANCE WITH SECTION 705 OF THE FLORIDA BUILDING CODE, WHICH REQUIRES THAT ALL INSTALLATIONS OF PENETRATIONS THROUGH FIRE RATED ASSEMBLIES OR FIRE STOP SYSTEMS SHALL BE AS TESTED BY ASTM E 119 & ASTM E 814.
- ALL EXTERIOR JUNCTION AND PULL BOXES SHALL BE NEMA-3R WITH HINGED LOCKABLE DOOR. PAINT SAME COLOR AS SURFACE. ALL INTERIOR JUNCTION BOXES SHALL BE NEMA-1 WITH HINGED LOCKABLE DOOR. PAINT EXPOSED BOXES SAME COLOR AS SURFACE. SIZE BOXES PER NEC TO ACCOMMODATE QUANTITY AND SIZE OF CONDUITS.
- ALL CONDUITS SHALL BE CONCEALED BEHIND WALL OR ABOVE CEILING OR UNDER LIFTED BUILDING. SURFACE MOUNTED RACEWAY OR CONDUITS SHALL ONLY BE PERMITTED ON CONCRETE WALLS OR HARD CEILING.
- COVER AND PROTECT EXISTING FURNITURE, ELECTRONIC DEVICES, EQUIPMENTS DURING AROUND AREAS OF WORK.
- FOR NEW CONDUIT PATHWAYS EXTENDING BETWEEN CONDITIONED AND UNCONDITIONED SPACES, PROVIDE PLUG FOR BOTH ENDS OF CONDUIT WITH A WATER-TIGHT COMPOUND TO BLOCK CONDENSATION.
- PROVIDE SEPARATE NEUTRAL CONDUCTOR FOR EACH CIRCUIT. DO NOT COMBINE NEUTRALS. TWO CIRCUITS IN ONE HOME RUN SHALL HAVE TWO NEUTRAL CONDUCTORS.
- RESTORE DISTURBED WALLS TO ITS ORIGINAL CONDITION. FINISH AND PAINT DAMAGED WALL AREAS. PAINT SHALL MATCH EXISTING.
- PROVIDE ALL THE REQUIRED COMPONENTS TO COMPLETE A PATHWAY SYSTEM. THIS INCLUDES ANY COMPONENTS SUCH AS MATERIALS, DRILLING, TRENCHING, MOUNTING, PAINTING, FIRESTOPPING AND ANY OTHER REQUIRED ACCESSORIES.
- ALL WALL PENETRATIONS SHALL BE FIRESTOPPED USING F2-PATH COMPONENTS FOR FIRE RATED WALLS.
- VERIFY ELECTRICAL EQUIPMENTS POWER REQUIREMENTS BEFORE INSTALLATION.
- REGULATORY REQUIREMENTS
A. CONFORM TO REQUIREMENTS OF NFPA 70 NEC VERSION THAT IS IN EFFECT.
B. FURNISH PRODUCTS LISTED BY UL OR OTHER TESTING FIRM ACCEPTABLE TO AUTHORITY HAVING JURISDICTION.
C. CONFORM TO FLORIDA BUILDING CODE VERSION THAT IS IN EFFECT.
D. CONFORM TO NATIONAL FIRE PROTECTION ASSOCIATION VERSION THAT IS IN EFFECT.
- CONFORM TO LOCAL UTILITY LAWS AND CODES VERSIONS THAT ARE IN EFFECT.
- CONTRACTOR RESPONSIBLE FOR PROVIDING FIRE ALARM DEVICES WHERE REQUIRED.
- PROVIDE REQUIRED POWER SUPPLY AND ELECTRICAL CONNECTIONS TO ALL ELECTRONICS AND LOW VOLTAGE DEVICES AS REQUIRED BY THE MANUFACTURER.
- PROVIDE NECESSARY LIGHT CONTROLLERS AND ASSOCIATED LIGHTING DEVICES ABOVE CEILING FOR OPERATION OF ON/OFF/DIMMING AND CONTROLS OF LIGHT FIXTURES.
- PROVIDE ALL NEW ELECTRICAL WIRING FOR THE BUILDING. ANY CLOTH TYPE ELECTRICAL WIRING IS PROHIBITED. REMOVE ALL EXISTING ELECTRICAL WIRING.
- PROVIDE TAMPER RESISTANT RECEPTACLES AND GFCI TYPE RECEPTACLES AS REQUIRED PER THE NEC CODE IN EFFECT.
- PROVIDE COPPER WIRING IN CONDUIT ONLY. USE FLEXIBLE CONDUIT AT TERMINATION POINTS WHERE NECESSARY. REFER TO SPECIFICATIONS ON SHEET FOR ALL OTHER REQUIREMENTS. MAIN ELECTRICAL PATHWAYS WILL BE RUNNING IN CONDUIT UNDER THE LIFTED BUILDING.
- FOR ALL LIGHT FIXTURES, COORDINATE WITH OWNER WITH PREFERRED MODEL AND FIXTURE COLOR.

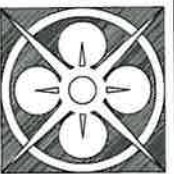
DEMOLITION NOTES:

- THERE SHALL NOT BE ANY INTERRUPTION TO SERVICES TO THE EXISTING BUILDINGS WITHOUT PRIOR SCHEDULING OF SUCH OUTAGES WITH THE OWNER'S REPRESENTATIVE.
- THE CONTRACTOR SHALL NOT TAKE POSSESSION OF OR DISPOSE OF ANY SALVAGEABLE ITEMS IN ASSOCIATION WITH THE WORK. ALL SALVAGEABLE ITEMS SHALL BE THE OWNER'S PROPERTY AT OWNER DISCRETION. ALL UNSALVAGEABLE EQUIPMENT AND MATERIALS SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE REMOVED FROM THE SITE.
- THE ELECTRICAL CONTRACTOR SHALL MAINTAIN ACCURATE RECORDS OF ANY MODIFICATIONS TO EXISTING SYSTEMS AND SHALL UPON COMPLETION, DELIVER "AS-BUILT" DRAWINGS TO THE OWNER, INDICATING ANY SUCH CHANGES.
- WHERE FEEDERS ARE ABANDONED, WIRE SHALL BE PULLED OUT AND ALL EXPOSED SECTIONS OF CONDUITS REMOVED. ALL CONCEALED CONDUITS SHALL BE CAPPED AT POINT OF CONCEALMENT.
- ALL EXISTING DEVICES AND FIXTURES IN THE PATH OF RENOVATION OR BUILDING ADDITIONS SHALL BE REMOVED BY THE CONTRACTOR. REMOVE ALL EXISTING WIRING AND ELECTRICAL COMPONENTS.
- CONTRACTOR MAY REUSE EXISTING CONDUIT SYSTEM WHERE APPLICABLE, PROVIDING THE REUSED SYSTEMS MEET CURRENT CODES. REMOVE ALL UNUSED SURFACE MOUNTED CONDUIT. UNUSED CONDUITS STUBBING UP FROM FLOOR SHALL BE CUT FLUSH WITH FLOOR.
- ELECTRICAL DRAWINGS DO NOT INDICATE ALL THE EXISTING INSTALLATIONS.
- CONTRACTOR SHALL VISIT THE SITE PRIOR TO PREPARING HIS BID AND DETERMINE THE EXTENT OF EXISTING EQUIPMENT AND WIRING TO ACCOMMODATE CHANGES AND ADDITIONS. ALL THE NECESSARY RELOCATING, RELOCATING AND/OR REMOVAL OF EXISTING EQUIPMENT, WIRING ETC. SHALL BE INCLUDED IN THE SCOPE OF THIS WORK. ANY VARIATION FROM EXISTING CONDITIONS SHALL BE INCLUDED UNDER THIS CONTRACT.



LEGEND

- UN.O. UNLESS NOTES OTHERWISE.
- EXISTING FAN WITH ASSOCIATED LIGHT TO BE REMOVED.
- EXISTING LIGHT SWITCH, TO BE RMEOVED U.N.O.
- EXISTING POWER OUTLET, TO BE REMOVED U.N.O.
- EXISTING DATA/PHONE OUTLET, TO BE REMOVED U.N.O.
- EXISTING SMOKE DETECTOR, TO BE REMOVED.
- EXISTING SURFACE MOUNTED LIGHT FIXTURE TO BE REMOVED.
- EXISTING EXIT SIGN TO BE REMOVED.
- EXISTING EMERGENCY WALL PACK TO BE REMOVED.
- EXITING MOTION SENSOR TO BE REMOVED.
- NEW EMERGENCY EXIT LIGHT, ARROW INDICATES THE DIRECTION OF EXIT. REFER TO MODEL NUMBER FOR EXACT TYPE. CONNECT TO NEAREST 120V LIGHT CIRCUIT.
- NEW EMERGENCY WALL MOUNTED FIXTURE. PROVIDE BATTERY. REFER TO LIGHT FIXTURE SCHEDULE FOR EXACT MODEL. CONNECT TO NEAREST 120V LIGHT CIRCUIT.
- NEW VACANCY SWITCH, MOUNT 46" HEIGHT, WHITE COVER PLATE. ADJUSTABLE DELAY OFF.
- NEW DIMMER SWITCH, MOUNT 46" HEIGHT, WHITE COVER PLATE.
- NEW LOW VOLTAGE TOGGLE SWITCH, MOUNT 46" HEIGHT, WHITE COVER PLATE. FOR FAN LOCATIONS, THE SWITCH TO HAVE A SEPARATE FAN AND LIGHT SWITCH.
- NEW TOGGLE SWITCH-SINGLE POLE, 20AMP, 120/277V, MOTOR RATED, GROUNDING TYPE, MOUNT AT EQUIPMENT HOUSING.
- NEW FAN WITH LIGHT LED FIXTURE. PER OWNER PREFERENCE MODEL.
- NEW WALL FIXTURE. REFER TO LIGHT FIXTURE SCHEDULE FOR EXACT MODEL.
- NEW OCCUPANCY CEILING MOUNTED SENSOR.
- NEW DUPLEX RECEPTACLE, 20AMP, 120V, MOUNT 18" HEIGHT UNO, WHITE COVER PLATE. NUMBER BESIDE OUTLET REPRESENTS MOUNT HEIGHT IF SHOWN. 'C' DENOTES CEILING TYPE RECEPTACLE. TAMPER RESISTANT. REFER TO ARCHITECTURAL PLAN FOR EXACT HEIGHT. COORDINATE HEIGHT AND LOCATION BEFORE INSTALLATION.
- NEW DUPLEX RECEPTACLE, 20AMP, 120V, MOUNT 18" HEIGHT UNO, WITH GROUND FAULT INTERRUPTER, WHITE COVER PLATE. NUMBER BESIDE OUTLET REPRESENTS MOUNT HEIGHT IF SHOWN. TAMPER RESISTANT.
- NEW SINGLE RECEPTACLE, 20AMP, 120V, MOUNT 18" HEIGHT, WHITE COVER PLATE.
- SPECIAL TYPE RECEPTACLE, COORDINATE WITH EQUIPMENT MANUFACTURER RECOMMENDATION.
- NEW QUAD RECEPTACLE, 20AMP, 120V, MOUNT 18" HEIGHT UNO, WHITE COVER PLATE. NUMBER BESIDE OUTLET REPRESENTS MOUNT HEIGHT IF SHOWN. 'C' DENOTES CEILING TYPE RECEPTACLE. TAMPER RESISTANT.
- NEW WALL MOUNTED COMMUNICATION OUTLET, 4" SQUARE BOX WITH ONE GANG EXTENSION RING. RECESS IN WALL AND ROUTE CONDUIT INSIDE WALL. RJ-45 JACKS, 18" MOUNTING HEIGHT. PROVISION OF TWO JACKS IS STANDARD. PROVIDE (2) CAT6 PLENUM CABLES TO COMMUNICATION RACK. SUPPORT FROM BUILDING STRUCTURE AT INTERVALS NOT TO EXCEED 36". TEST AND LABEL CABLES. COORDINATE WITH OWNER FOR EXACT LOCATION BEFORE INSTALLATION.
- NEW PROVIDE SMOKE DETECTOR COMBINED WITH CARBON MONOXIDE.
- NEW ELECTRICAL PANEL.
- NEW DISCONNECT SWITCH, "2 30/60" DENOTES 2 POLE, 30 AMP, 60 AMP FUSES.
- HOMERUN TO PANELBOARD - NUMBER OF ARROWS DENOTES QUANTITY OR CIRCUITS. CROSS MARKS INDICATE QUANTITY OF CONDUCTORS. RUNS VOID OF CROSS MARKS ARE 3 WIRES, UNLESS NOTED OTHERWISE. REFER TO PANEL. DO NOT COMBINE HOMERUNS EXCEPT AS SPECIFICALLY INDICATED ON THE PLAN.
- WIRING IN CONDUIT, RUN CONCEALED ABOVE CEILING OR IN WALLS.
- WIRING IN CONDUIT, RUN CONCEALED BELOW GRADE OR IN CONCRETE FLOOR SLAB.



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ELECTRICAL LEGEND
AND
NOTES

E1.0

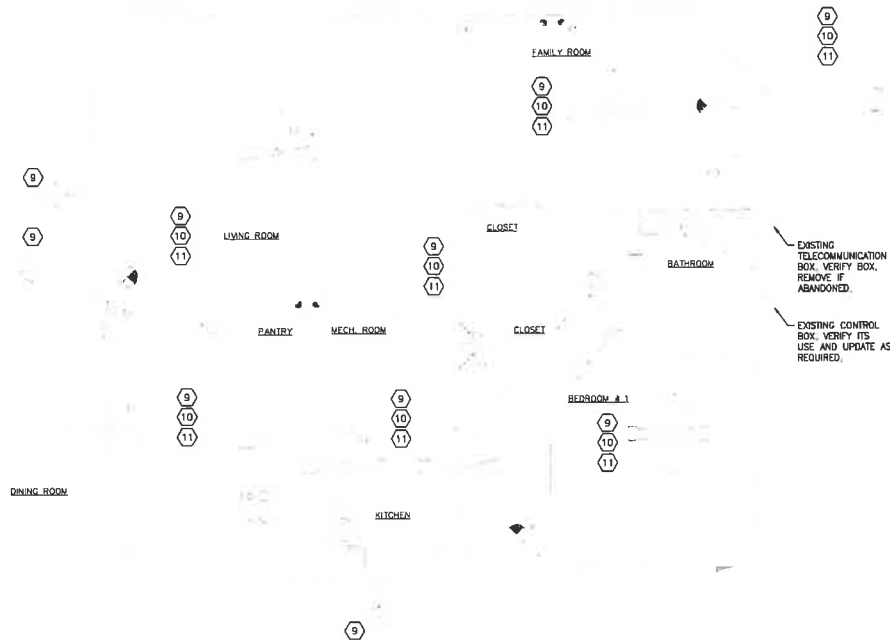
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Haddad

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Nawar Haddad
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THIS IS A SET OF THE PLANS, SPECIFICATIONS, SCHEDULES AND SUPPLEMENTAL NOTES TO THE PROJECT. THE PLANS AND SPECIFICATIONS SHALL BE USED IN CONJUNCTION WITH THE SCHEDULES AND SUPPLEMENTAL NOTES.

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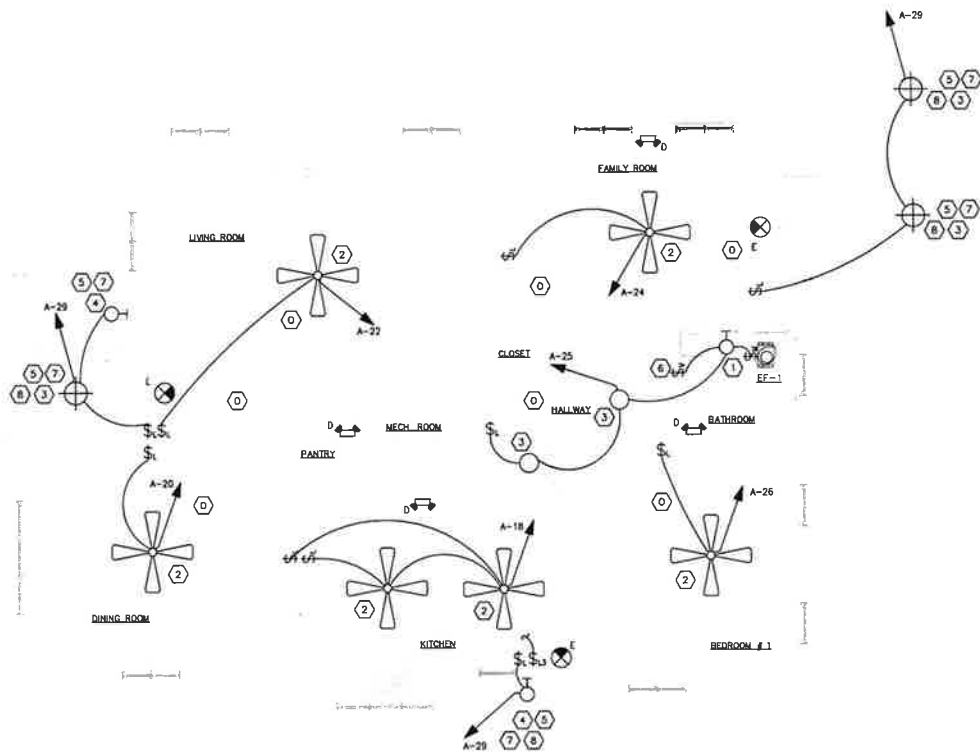




LIGHTING FLOOR PLAN - DEMOLITION PLAN
GRAPHIC SCALE 1/4" = 1'-0"

NOTES

1. VANITY LIGHT FIXTURE PER OWNER CHOICE. COORDINATE WITH OWNER FOR EXACT TYPE.
2. FAN WITH LIGHT FIXTURES, FAN AND LIGHT FIXTURE TO HAVE SEPARATE SWITCHING. COORDINATE WITH OWNER FOR PREFERRED MODEL.
3. SURFACE MOUNTED TYPE FIXTURE PER OWNER CHOICE.
4. WALL MOUNTED TYPE FIXTURE PER OWNER CHOICE.
5. EXTERIOR TYPE FIXTURE, EXTERIOR/WET RATED.
6. COORDINATE WITH MECHANICAL DRAWINGS FOR INTERLOCK PREFERENCE.
7. CONNECT TO A PHOTOCELL.
8. PROVIDE INTEGRATED BATTERY BACKUP WITH FIXTURE.
9. REMOVE ALL EXISTING LIGHT FIXTURES (TYPICAL).
10. REMOVE ALL EXISTING LIGHT SWITCHES (TYPICAL).
11. REMOVE ALL EXISTING FANS (TYPICAL).



LIGHTING FLOOR PLAN - NEW PLAN
GRAPHIC SCALE 1/4" = 1'-0"

LIGHTING FIXTURE SCHEDULE

TYPE	MANUFACTURER	CATALOGUE NUMBER	LIGHT SOURCE		VOLTS	MOUNTING HEIGHT	REMARKS
			TYPE/TEMP	WATTS LUMENS			
D	BEGHELLI	PEH-1-AT		3.4	120-277	WALL	EMERGENCY FIXTURE WITH BATTERY BACKUP
E	BEGHELLI	VA4-R-SA-AT			120-277	WALL/CEILING	EMERGENCY EXIT WITH BATTERY BACKUP

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FLOOR PLAN
-
LIGHTING

E2.1



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FLOOR PLAN
ELECTRICAL
E2.2

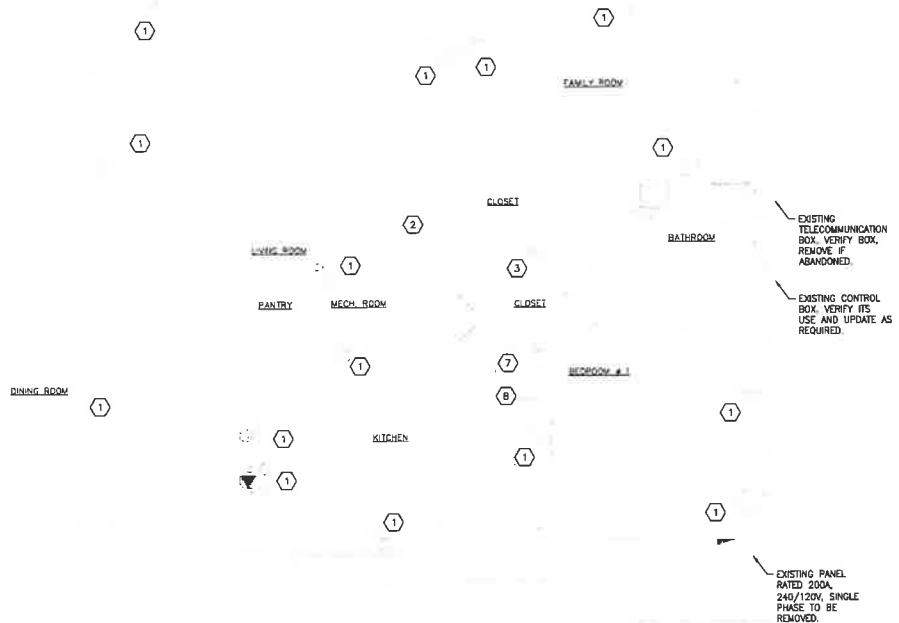


NOTES: 1. ALL 120V BRANCH CIRCUITS SUPPLYING OUTLETS (RECEPTACLES AND LIGHTING) IN FAMILY ROOM, KITCHEN, BEDROOM, DINING ROOM, HALLWAYS, OR SIMILAR ROOMS SHALL BE PROTECTED BY ARC-FAULT CURRENT BREAKERS. SEE NEC 210.12.

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EXISTING POLE MOUNTED TRANSFORMER APPROXIMATE LOCATION. COORDINATE WITH ELECTRICAL UTILITY BEFORE START OF WORK.

**POLE MOUNTED TRANSFORMER APPROXIMATE LOCATION
IN REFERENCE TO BUILDING. BY MAIN STREET.**
GRAPHIC SCALE 1/4" = 1'-0"



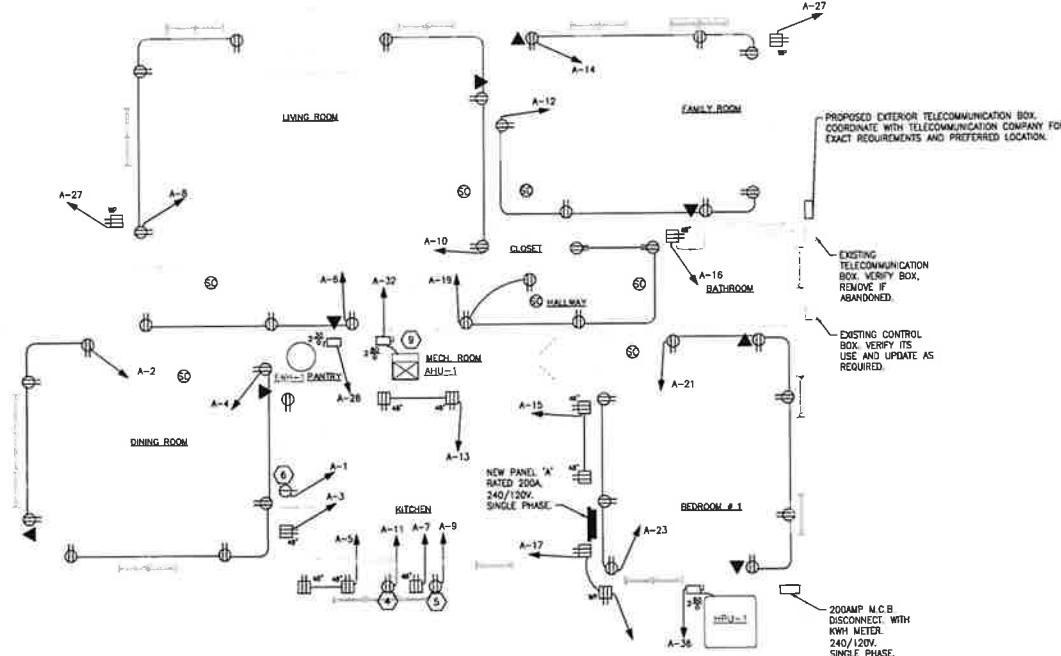
ELECTRICAL FLOOR PLAN - DEMOLITION PLAN
GRAPHIC SCALE 1/4" = 1'-0"

NOTES

- EXISTING ELECTRICAL RECEPTACLES TO BE REMOVED WITH ITS ASSOCIATED WIRING. (GENERAL).
- EXISTING LOW VOLTAGE DEVICES TO BE REMOVED WITH ITS ASSOCIATED WIRING. (GENERAL).
- EXISTING SMOKE DETECTOR. TO BE REMOVED.
- PROVIDE DEDICATED 20 AMP, 120V CIRCUIT FOR GARBAGE DISPOSAL. LOCATE OUTLET WITHIN BASE CABINET UNDER SINK. PROVIDE DISPOSAL SWITCH. GFCI TYPE BREAKER.
- PROVIDE DEDICATED 20 AMP, 120V CIRCUIT FOR DISHWASHER. LOCATE OUTLET WITHIN BASE CABINET. GFCI TYPE BREAKER.
- PROVIDE DEDICATED 20 AMP, 120V CIRCUIT FOR REFRIGERATOR, 48" MOUNTING HEIGHT. GFCI TYPE BREAKER.
- EXISTING WATER HEATER ALL ELECTRICAL COMPONENTS TO BE REMOVED.
- EXISTING SECURITY, COORDINATE WITH OWNER BEFORE REMOVAL FOR EXACT REQUIREMENTS.
- REFER TO MECHANICAL DRAWINGS FOR SMOKE DUCT DETECTOR ELECTRICAL CONNECTIONS.

GENERAL NOTES:

- ALL 120 VOLT BRANCH CIRCUITS SUPPLYING OUTLETS (RECEPTACLES AND LIGHTING) IN FAMILY ROOM, KITCHEN, BEDROOM, DINING ROOM, HALLWAYS, OR SIMILAR ROOMS SHALL BE PROTECTED BY ARC-FAULT CURRENT BREAKERS. SEE NEC 210.12.
- LOCATION OF RECEPTACLES SHALL COMPLY WITH NEC 210.52. FIELD-VERIFY LOCATION OF OUTLETS PRIOR TO ROUGH-IN.
- ALL CIRCUITS SHALL BE INSTALLED TO MEET NEC 210. ALL CONDUCTORS SHALL BE COPPER WITH GROUNDING CONDUCTOR.
- ALL 120V RECEPTACLES INSTALLED SHALL BE LISTED TAMPER RESISTANCE AS REQUIRED BY NEC 406-12.
- SMOKE/CO/GAS MONITORING DETECTORS TO BE INTERCONNECTED. ACTIVATION OF ONE SMOKE/MONITORING DETECTOR SHALL ENERGIZE SOUNDERS IN REMAINING DETECTORS.
- PROVIDE DISCONNECT SWITCH FOR APU AND CONDENSING UNITS. COORDINATE WITH MECHANICAL CONTRACTOR FOR CONNECTIONS PRIOR TO ROUGH-IN.
- PROVIDE 2-POL, 30 AMP DISCONNECT NON-FUSED SWITCH AT LOCATION OF WATER HEATER.
- PROVIDE CONNECTION FOR CONDENSING UNIT. CONNECT TO BUILDING PANELBOARD. MAXIMUM OF 3% VOLTAGE DROP. INCREASE WIRE SIZE, IF REQUIRED, TO MEET VOLTAGE DROP REQUIREMENTS. COORDINATE WITH MECHANICAL CONTRACTOR AND REFER TO MECHANICAL DRAWINGS FOR LOCATIONS OF CONDENSING UNITS.
- ALL KITCHEN ELECTRICAL DEVICES IN KITCHEN TO BE GFCI RECEPTACLES RATED OR GFCI CIRCUIT BREAKER RATED.
- REFER TO ARCHITECTURAL PLANS FOR DETAILS ON ALL BASEBOARD MOUNTED RECEPTACLES, THEIR LOCATIONS AND HEIGHT BEFORE INSTALLATION.



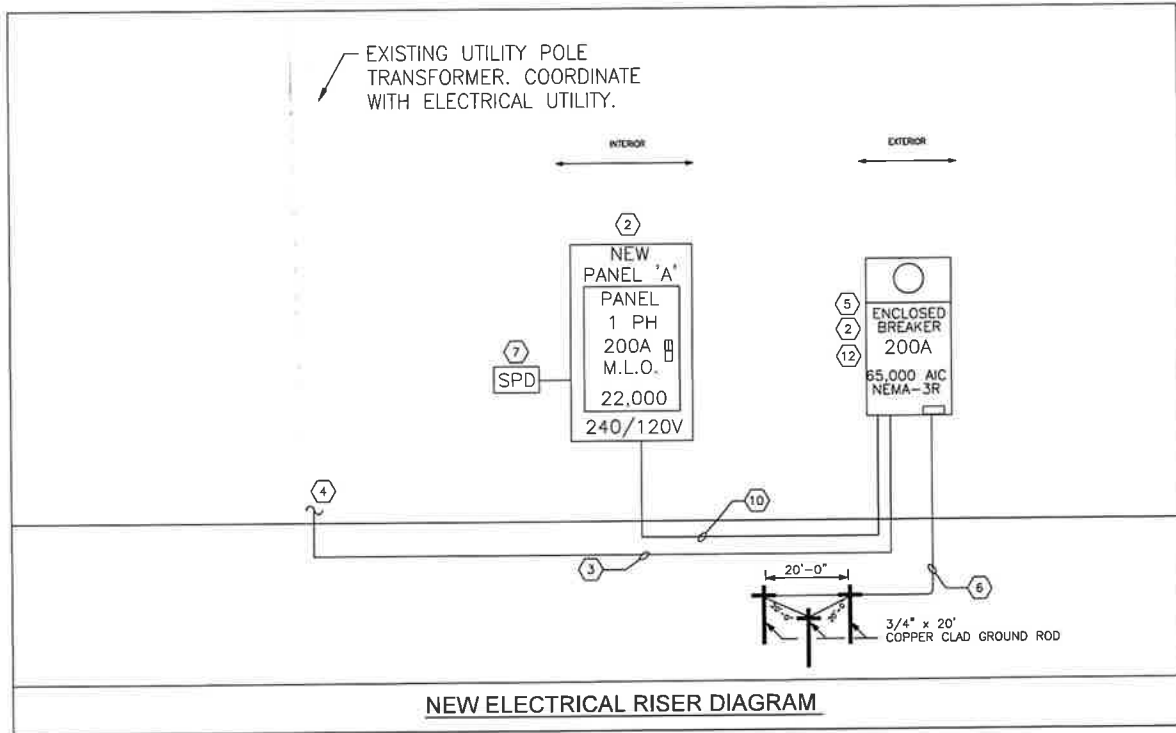
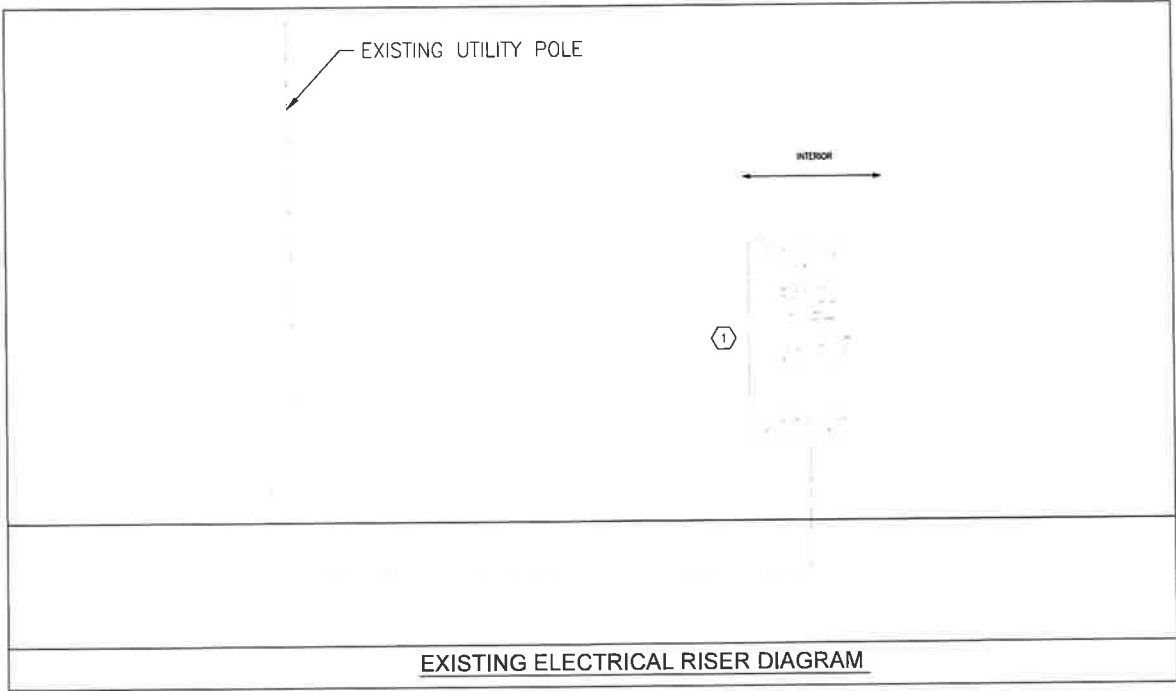
ELECTRICAL FLOOR PLAN - NEW PLAN
GRAPHIC SCALE 1/4" = 1'-0"

NEW PANEL A											240/120 VOLTS 1 PHASE 3 WIRE 200 AMP MAIN LUGS ONLY										
TYPE SQUARE 'D'																					
CKT NO.	DESIGNATION	CIRCUIT			CIRCUIT BREAKER		KVA	KVA	CIRCUIT BREAKER		CIRCUIT			DESIGNATION	CKT NO.						
		WIRE	GND	COND	POLE	TRIP			TRIP	POLE	COND	GND	WIRE								
1	REFRIGERATOR	12	12	1/2	1	20	0.5	0.6	20	1	1/2	12	12	DINING ROOM	2						
3	KITCHEN COUNTER	12	12	1/2	1	20	0.4	0.8	20	1	1/2	12	12	DINING ROOM	4						
5	KITCHEN COUNTER	12	12	1/2	1	20	0.8	0.6	20	1	1/2	12	12	LIVING ROOM	6						
7	KITCHEN COUNTER	12	12	1/2	1	20	0.4	0.6	20	1	1/2	12	12	LIVING ROOM	8						
9	DISHWASHER	12	12	1/2	1	20	1.0	0.6	20	1	1/2	12	12	LIVING ROOM	10						
11	GARBAGE DISPOSAL	12	12	1/2	1	20	0.5	0.8	20	1	1/2	12	12	FAMILY ROOM	12						
13	KITCHEN COUNTER	12	12	1/2	1	20	0.4	0.6	20	1	1/2	12	12	FAMILY ROOM	14						
15	KITCHEN COUNTER	12	12	1/2	1	20	0.4	0.2	20	1	1/2	12	12	RESTROOM	16						
17	REC. KITCHEN	12	12	1/2	1	20	0.4	0.5	20	1	1/2	12	12	KITCHEN FAN LTG	18						
19	HALLWAY	12	12	1/2	1	20	1.0	0.5	20	1	1/2	12	12	DINING ROOM FAN LTG	20						
21	BEDROOM 1	12	12	1/2	1	20	1.0	0.5	20	1	1/2	12	12	LIVING ROOM FAN LTG	22						
23	BEDROOM 1	12	12	1/2	1	20	0.6	0.5	20	1	1/2	12	12	FAMILY ROOM FAN LTG	24						
25	RR/HALL - FAN/LTG	12	12	1/2	1	20	0.2	0.5	20	1	1/2	12	12	BEDROOM FAN LTG	26						
27	EXTERIOR RECEPTACLE	12	12	3/4	1	20	0.4	4.5	30	2	3/4	10	10	WATER HEATER	28						
29	EXTERIOR LTG	12	12	3/4	1	20	0.5								30						
31	SPARE				1	20		11.0	50	2	1	8	6	AHU	32						
33	SPARE				1	20									34						
35	SPARE				1	20		6.0	40	2	1	10	8	HPU	36						
37	SPACE														38						
39	SPACE													SPACE	40						
41	SPACE													SPACE	42						
TOTAL KVA							37.3	22,000 AMP, RMS, SYMMETRICAL SHORT CIRCUIT CURRENT RATING													

LOAD CALCULATIONS	
LIGHTING AT 125% DEMAND FACTOR	= 3.75 VA
GENERAL ELECTRICAL AT 100% DEMAND FACTOR	= 12.8 VA
HVAC AND W/H AT 100% DEMAND FACTOR	= 21.5 VA
TOTAL = 38,050 VA	
TOTAL AMPS AT 240V, 1-PHASE	= 158 AMPS
SERVICE SIZE	= 200 AMPS

NOTES

- EXISTING 200AMP PANEL TO BE REMOVED WITH ITS ASSOCIATED WIRING AND ELECTRICAL COMPONENTS.
- NEW 200AMP PANEL, SINGLE PHASE, 240/120V.
- PROVIDE 3#4/0 COPPER IN A 2 1/2" CONDUIT. EXISTING CONDUIT MAY-BE REUSED IF IN GOOD SHAPE AND MEETS NEC CAPACITY FILL.
- TO EXISTING TRANSFORMER. COORDINATE, CONFORM AND MEET ALL REQUIREMENTS BY ELECTRICAL UTILITY TO PROVIDE A 200A 240/120V, SINGLE PHASE SERVICE. REFER TO LOCAL ELECTRICAL UTILITY BEFORE START OF WORK.
- COORDINATE WITH LOCAL ELECTRICAL UTILITY FOR ALL METERING REQUIREMENTS BEFORE START OF WORK.
- PROVIDE #1/0 COPPER IN A 1" CONDUIT.
- PROVIDE SURGE PROTECTIVE DEVICE RATED 100KA OR MORE.
- PROVIDE COMPUTER GENERATED PANEL DIRECTORY.
- VERIFY ELECTRICAL EQUIPMENT POWER REQUIREMENTS BEFORE INSTALLATION OF ELECTRICAL.
- PROVIDE 3#4/0 COPPER AND #4 GREEN GROUND IN A 2 1/2" CONDUIT.
- ALL KITCHEN ELECTRICAL RECEPTACLES AND EQUIPMENT TO BE ON GFCI BREAKER OR RECEPTACLE.
- PROVIDE SURGE PROTECTIVE DEVICE RATED 100KA OR MORE.



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PANEL SCHEDULES,
ELECTRICAL RISER
AND DETAILS

E3.1

TOTAL AREA OF THE PROJECT IS 11,000 SQ. FT. THE PROJECT IS A 1-1/2 STORY RESIDENTIAL PROJECT. THE PROJECT IS A 1-1/2 STORY RESIDENTIAL PROJECT. THE PROJECT IS A 1-1/2 STORY RESIDENTIAL PROJECT.

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SECTION 16050
BASIC ELECTRICAL MATERIALS AND METHODS

PART 1 GENERAL

1.1 SUMMARY

- A. GROUNDING AND BONDING
- B. CONNECTION OF UTILIZATION EQUIPMENT
- C. SUPPORTS
- D. IDENTIFICATION

1.2 SUBMITTALS

- A. PRODUCT DATA: FOR REVIEW; PROVIDE CATALOG DATA FOR GROUNDING AND BONDING DEVICES.

1.3 REGULATORY REQUIREMENTS

- A. CONFORM TO REQUIREMENTS OF NFPA 70 VERSION THAT IS IN EFFECT.
- B. FURNISH PRODUCTS LISTED BY UL OR OTHER TESTING FIRM ACCEPTABLE TO AUTHORITY HAVING JURISDICTION.
- C. CONFORM TO FLORIDA BUILDING CODE VERSION THAT IS IN EFFECT.
- D. CONFORM TO NATIONAL FIRE PROTECTION ASSOCIATION VERSION THAT IS IN EFFECT.
- E. CONFORM TO LOCAL UTILITY LAWS AND CODES VERSIONS THAT ARE IN EFFECT.

1.4 PROJECT CONDITIONS

- A. VERIFY EXISTING WORK OF ELECTRICAL BEFORE STARTING OF WORK.
- B. REPORT DISCREPANCIES BEFORE START OF THE WORK.

PART 2 PRODUCTS

2.1 GROUNDING MATERIALS

- A. GROUND ROD: COPPER-CLAD STEEL 3/4-INCH DIAMETER 10 FEET LENGTH.
- B. MECHANICAL CONNECTORS: BRONZE, ABOVE GRADE ONLY.
- C. EXOTHERMIC WELDS: BELOW GRADE CONNECTORS.

2.2 BASIC MATERIALS

- A. STEEL CHANNEL: GALVANIZED
- B. MISCELLANEOUS HARDWARE: TREAT FOR CORROSION RESISTANCE.
- C. NAMEPLATES: ENGRAVED THREE-LAYER LAMINATED PLASTIC, BLACK LETTERS ON WHITE BACKGROUND.
- D. WIRE AND CABLE MARKERS: CLOTH MARKERS, SPLIT SLEEVE OR TUBING TYPE.

PART 3 EXECUTION

3.1 INSTALLATION

- A. INSTALL WORK ACCORDING TO NECA "STANDARD OF INSTALLATION."
- B. PROVIDE BONDING TO MEET REGULATORY REQUIREMENTS.
- C. MAKE ELECTRICAL CONNECTIONS TO UTILIZATION EQUIPMENT IN ACCORDANCE WITH EQUIPMENT MANUFACTURER'S INSTRUCTIONS.
 - 1. VERIFY THAT WIRING AND OUTLET ROUGH-IN WORK IS COMPLETE BEFORE ENERGIZING
- D. MAKE WIRING CONNECTIONS IN CONTROL PANEL OR IN WIRING COMPARTMENT OF PRE-WIRED EQUIPMENT, PROVIDE INTERCONNECTING WIRING WHERE INDICATED.
- E. INSTALL AND CONNECT DISCONNECT SWITCHES, CONTROLLERS, AND CONTROL DEVICES AS INDICATED.
- F. MAKE CONDUIT CONNECTIONS TO EQUIPMENT USING FLEXIBLE CONDUIT. USE LIQUIDTIGHT FLEXIBLE CONDUIT IN DAMP OR WET LOCATIONS.
- G. INSTALL SUPPORT SYSTEMS SIZED AND FASTENED TO ACCOMMODATE WEIGHT OF EQUIPMENT AND CONDUIT, INCLUDING WIRING, WHICH THEY CARRY.
 - 1. FASTEN HANGER RODS, CONDUIT CLAMPS, AND OUTLET AND JUNCTION BOXES TO BUILDING STRUCTURE USING PRECAST INSERT SYSTEM BEAM CLAMPS.
 - 2. DO NOT FASTEN SUPPORTS TO PIPING, CEILING SUPPORT WIRES, DUCTWORK, MECHANICAL EQUIPMENT, OR CONDUIT.
- H. IDENTIFY ELECTRICAL DISTRIBUTION AND CONTROL EQUIPMENT, AND LOADS SERVED, TO MEET REGULATORY REQUIREMENTS AND AS SCHEDULED.
 - 1. SECURE NAMEPLATES TO EQUIPMENT FRONTS USING SCREWS, RIVETS, OR ADHESIVE, WITH EDGES PARALLEL TO EQUIPMENT LINES. SECURE NAMEPLATE TO INSIDE FACE OF RECESSED PANELBOARD DOORS IN FINISHED LOCATIONS.
- I. INSTALL WIRE MARKERS ON EACH CONDUCTOR IN PANELBOARD GUTTERS, PULL BOXES, OUTLET AND JUNCTION BOXES, AND AT LOAD CONNECTIONS.
 - 1. USE BRANCH CIRCUIT OR FEEDER NUMBER TO IDENTIFY POWER AND LIGHTING CIRCUITS.

PART 1 GENERAL

1.1 SUBMITTALS

- A. PRODUCT DATA: FOR REVIEW.
 - 1. PROVIDE WIRING DEVICE CONFIGURATIONS, RATINGS, DIMENSIONS, AND COLOR SELECTIONS.
 - 2. PROVIDE SERVICE FITTING CONFIGURATIONS, DIMENSIONS, AND FINISH AND COLOR SELECTIONS.

1.2 REGULATORY REQUIREMENTS

- A. CONFORM TO REQUIREMENTS OF NFPA 70.
- B. FURNISH PRODUCTS LISTED BY UL OR OTHER TESTING FIRM ACCEPTABLE TO AUTHORITY HAVING JURISDICTION.

PART 2 PRODUCTS

2.1 PRODUCT REQUIREMENTS

- A. USE ONLY SPECIFIED RACEWAY IN THE FOLLOWING LOCATIONS:
 - 1. UNDERGROUND INSTALLATIONS MORE THAN 5 FEET FROM FOUNDATION PLASTIC CONDUIT, PROVIDE CONCRETE ENCASMENT WHERE INDICATED.
 - 2. INSTALLATIONS IN OR UNDER CONCRETE SLAB, OR UNDERGROUND WITHIN 5 FEET FROM FOUNDATION WALL: PLASTIC CONDUIT.
 - 3. IN SLAB ABOVE GRADE: PLASTIC CONDUIT.
 - 4. EXPOSED OUTDOOR LOCATIONS: ELECTRICAL METALLIC TUBING. USE RAINLIGHT FITTINGS.
 - 5. WET INTERIOR LOCATIONS: ELECTRICAL METALLIC TUBING. USE RAINLIGHT FITTINGS FOR METAL CONDUIT.
 - 6. CONCEALED DRY INTERIOR LOCATIONS: ELECTRICAL METALLIC TUBING.
 - 7. EXPOSED DRY INTERIOR LOCATIONS: ELECTRICAL METALLIC TUBING.
- B. SIZE RACEWAYS FOR CONDUCTOR TYPE INSTALLED OR FOR TYPE THW CONDUCTORS, WHICHEVER IS LARGER.
 - 1. MINIMUM SIZE CONDUIT: 1/2-INCH
- C. USE WIRE AND CABLE IN LOCATIONS AS FOLLOWS:
 - 1. CONCEALED INTERIOR LOCATIONS: BUILDING WIRE IN RACEWAY OR MC CABLE.
 - 2. EXPOSED INTERIOR LOCATIONS: BUILDING WIRE IN RACEWAY OR MC CABLE.
 - 3. ABOVE ACCESSIBLE CEILINGS: BUILDING WIRE IN RACEWAY.
 - 4. WET OR DAMP INTERIOR LOCATIONS: BUILDING WIRE IN RACEWAY.
 - 5. EXTERIOR LOCATIONS: BUILDING WIRE IN RACEWAYS.
 - 6. UNDERGROUND LOCATIONS: BUILDING WIRE IN RACEWAY.

2.2 CONDUIT AND FITTINGS

A. CONDUIT:

- 1. METAL CONDUIT AND TUBING: GALVANIZED STEEL
- 2. FLEXIBLE CONDUIT: STEEL
- 3. LIQUID TIGHT FLEXIBLE CONDUIT: FLEXIBLE CONDUIT WITH PVC JACKET.
- 4. PLASTIC CONDUIT AND TUBING: NEMA TC 2, PVC, USE SCHEDULE 40 CONDUIT.

B. CONDUIT FITTINGS:

- 1. METAL FITTINGS AND CONDUIT BODIES: NEMA FB 1.
- 2. PLASTIC FITTINGS AND CONDUIT BODIES: NEMA TC 3.
- 3. EMT FITTINGS: STEEL

2.4 ELECTRICAL BOXES

- A. BOXES:
 - 1. SHEET METAL: NEMA OS 1, GALVANIZED STEEL.
 - 2. CAST METAL: CAST FERROUS, DEEP TYPE, GASKETED COVER, THREADED HUBS.
- B. HINGED COVER ENCLOSURES: NEMA 250, TYPE 1, STEEL ENCLOSURE WITH MANUFACTURER'S STANDARD ENAMEL FINISH AND CONTINUOUS HINGE COVER, HELD CLOSED BY FLUSH LATCH OPERABLE BY SCREWDRIVER.

C. LARGE CAST METAL BOXES:

- 1. SURFACE-MOUNTED TYPE: NEMA 250, TYPE 4 AND TYPE 6, FLAT-FLANGED, SURFACE-MOUNTED JUNCTION BOX; GALVANIZED CAST IRON BOX AND COVER WITH GROUND FLANGE, NEOPRENE GASKET, AND STAINLESS STEEL COVER SCREWS.

2.5 BUILDING WIRE AND CABLE

- A. FEEDERS AND BRANCH CIRCUITS LARGER THAN 6 AWG: COPPER STRANDED CONDUCTOR, 600 VOLT INSULATION, THHN/THWN AND XHHW.
- B. FEEDERS AND BRANCH CIRCUITS 6 AWG AND SMALLER: COPPER CONDUCTOR, 600 VOLT INSULATION, THHN/THWN, XHHW 6 AND 8 AWG, STRANDED CONDUCTOR, SMALLER THAN 6 AWG, SOLID CONDUCTOR.
- C. CONTROL CIRCUITS: COPPER, STRANDED CONDUCTOR, 600 VOLT INSULATION, THW.
- D. ALL CONDUCTORS SHALL BE COPPER IN CONDUIT.

PART 3 EXECUTION

3.1 EXAMINATION AND PREPARATION

- A. VERIFY THAT SUPPORTING SURFACES ARE READY TO RECEIVE WORK.
- B. VERIFY THAT INTERIOR OF BUILDING IS PHYSICALLY PROTECTED FROM WEATHER.
- C. VERIFY THAT MECHANICAL WORK THAT IS LIKELY TO DAMAGE CONDUCTORS HAS BEEN COMPLETED.
- D. COMPLETELY AND THOROUGHLY SWAB RACEWAY SYSTEM BEFORE INSTALLING CONDUCTORS.
- E. ELECTRICAL BOXES ARE SHOWN ON DRAWINGS IN APPROXIMATE LOCATIONS UNLESS DIMENSIONED.
 - 1. IT SHALL BE UNDERSTOOD THAT ANY OUTLET MAY BE RELOCATED A DISTANCE NOT EXCEEDING 10FT FROM THE LOCATION SHOWN ON THE DRAWINGS PRIOR TO OR DURING ROUGH-IN, IF SO DIRECTED BY THE ARCHITECT-ENGINEER WITHOUT ADDITIONAL COST TO THE OWNER.



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Preservation Improvements for
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No.	Date	Revisions
1.		
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Commission No.	
Date	04.30.2020
Scale	SEE DWG
Drawn by	NHL
Checked by	NHL
Sheet No.	of

ELECTRICAL
SPECIFICATIONS

E4.1

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