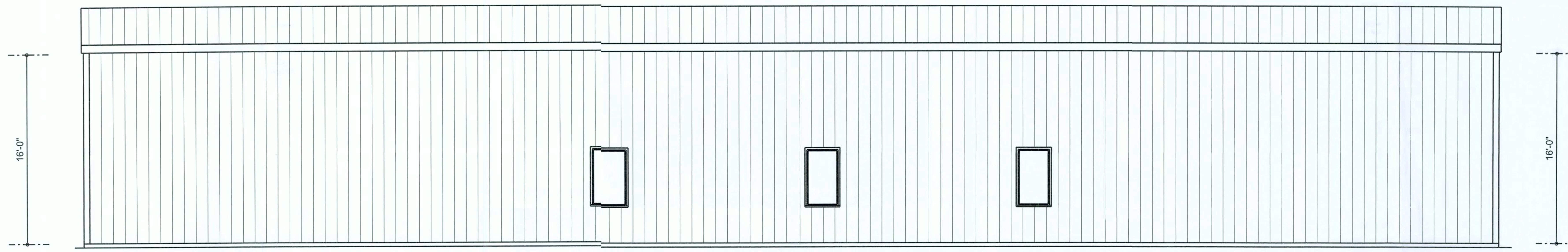
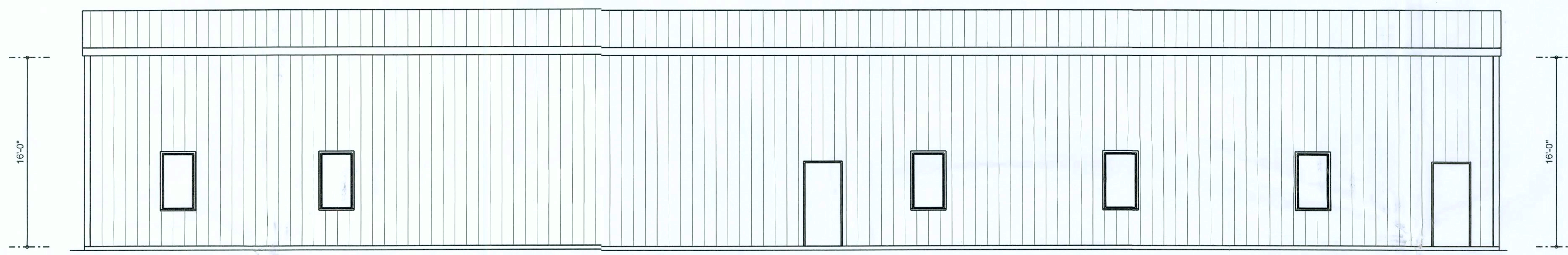


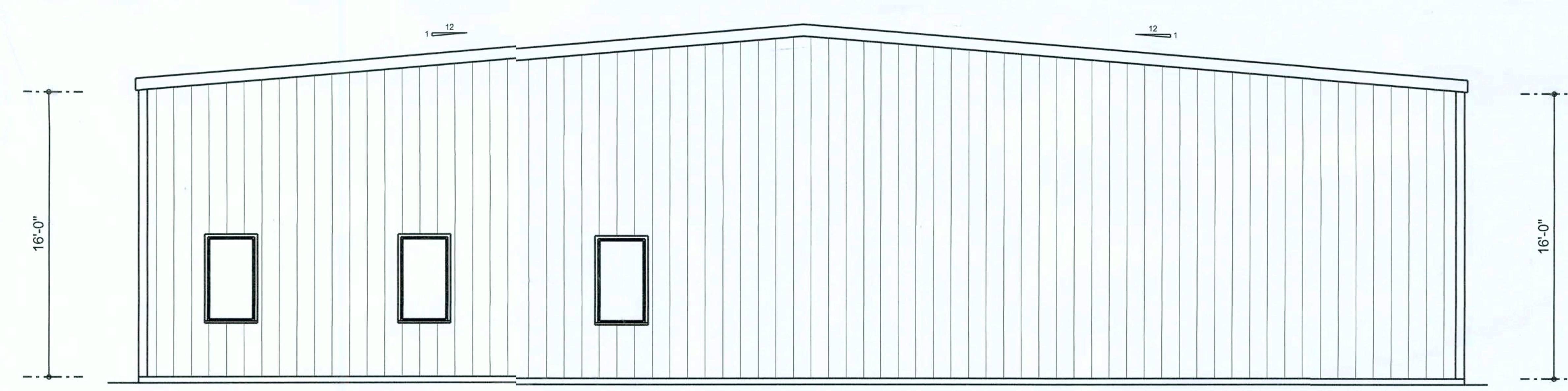
LEFT ELEVATION

SCALE: 3/16" = 1'-0"



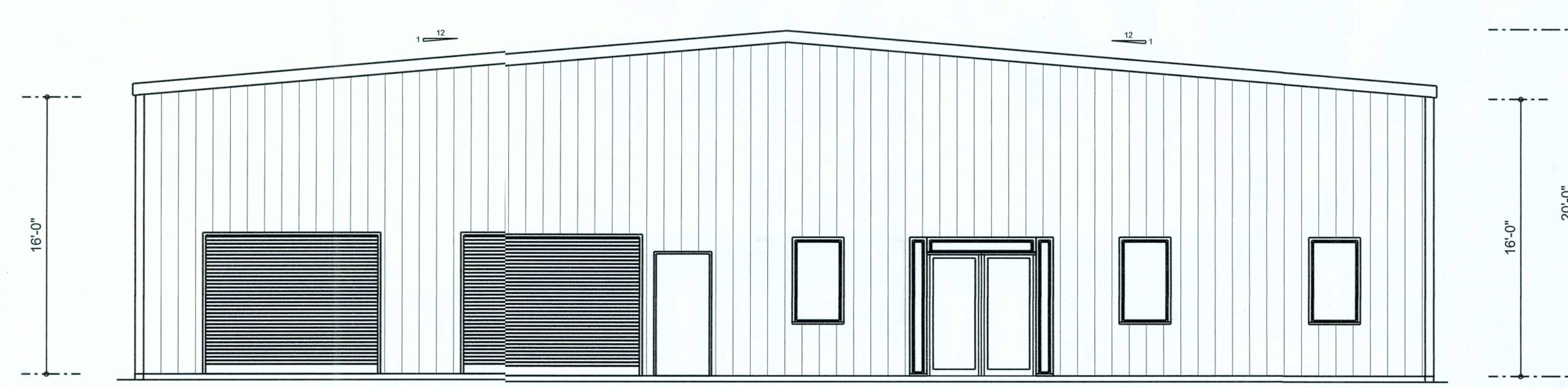
RIGHT ELEVATION

SCALE: 3/16" = 1'-0"



REAR ELEVATION

SCALE: 3/16" = 1'-0"



FRONT ELEVATION

SCALE: 3/16" = 1'-0"

REVISION:

DRAWN:

PROPOSED BUILDINGS FOR:

DIY LETTERING

215 WINDSWEPT GLEN, LAKE CITY, FLORIDA 32024

RIDGEPOINT DESIGN
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E: RIDGEPOINTDESIGN@GMAIL.COM

Celebrating 46 Years of Service
1972 - 2018
N.P. Geisler, Architect
AR0007005

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1758 NW Brown Rd.
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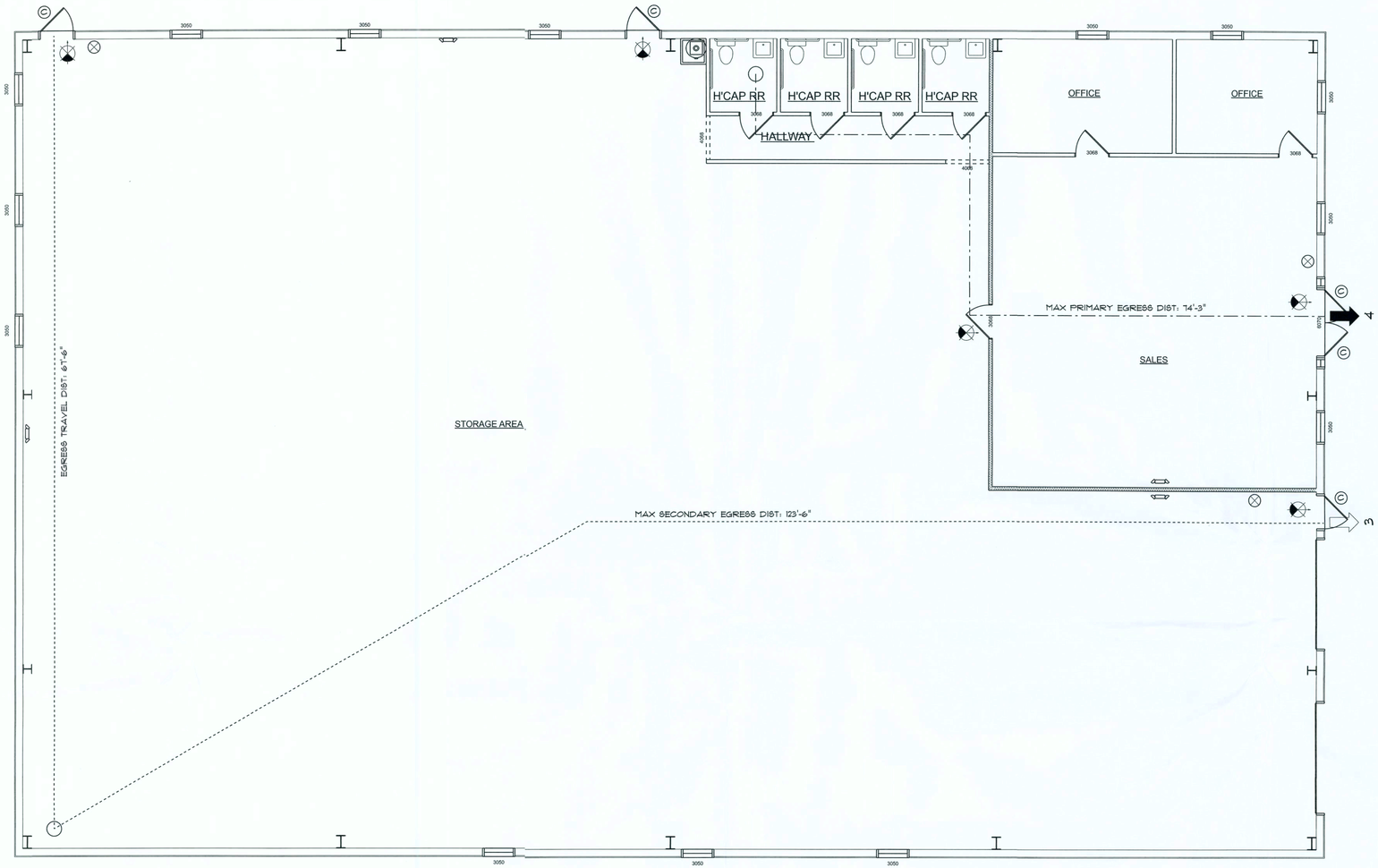
DATE:
18th December 2018

COMM:
2K1892

SHEET:
A.1
1 OF 3

18Dec2018
AR0007005



LIFE SAFETY PLAN

SCALE: 3/16" = 1'-0"

LEGEND

- EXIT LIGHT - ARROW REPRESENTS DIRECTION OF EXIT
- WALL HUNG "ABC" FIRE EXTINGUISHER
- DOOR / CLOSURE FOR EXITING OR RATING REASONS
- PRIMARY EGRESS W/ EXIT CAPACITY
- SECONDARY EGRESS
- EMERGENCY LIGHT W/ BATTERY BACKUP

NOTE!
EMERGENCY LIGHTING AND EXIT SIGNS, SHALL BE PROVIDED AS DIRECTED BY THE FIRE MARSHAL, AND SHALL BE WIRED PER NEC 700-12F

NOTE!
SMOKE DETECTORS SHALL BE MOUNTED NOT LESS THAN 90" ABOVE FINISHED FLOOR AND SHALL BE THE IONIZATION TYPE, INTERLOCKED TOGETHER, POWERED FROM EACH STORE PANEL W/ BATTERY BACKUP

EXIT ACCESS TRAVEL DISTANCE PER FBC 1015, TABLE 1015.1

OCCUPANCY - OFFICE

150 FT. (WITHOUT SPRINKLER SYSTEM)
250 FT. (WITH SPRINKLER SYSTEM)

NOTE!
TRAVEL DISTANCES SHOWN ARE MAXIMUM FOR EMERGENCY EGRESS, SECONDARY EM. EGRESS AND NON-EMERGENCY EGRESS - ALL OTHER TRAVEL DISTANCES ARE LESS THAN THAT SHOWN

8" SQ. MALTESE, CROSS w/ "F/R" IDENTIFIER SIGNAGE, MOUNTED @ 60" ABV. WALKWAY LOCATE AS DIRECTED BY THE FIRE MARSHAL

2017 FBC-BUILDING, TABLE 1004.1.1

MAXIMUM FLOOR AREA ALLOWABLE PER OCCUPANT

OCCUPANCY CLASSIFICATION	FLOOR AREA	OCCUPANCY BASIS	NUMBER OF OCCUPANTS
OFFICE	1,260	@ 1/100 SF	13
STORAGE	7,440	@ 1/300 SF	25
RESTROOMS	300	@ 1/50 SF	6
BUILDING TOTALS	9,000		44

APPROVED (Subject to Revisions)
Life Safety Services
Columbia County Fire Rescue
Florida State Fire Inspector # 190549
By: SCTS Date: 1-3-19

AR0007005

REVISION:

DRAWN:

PROPOSED BUILDINGS FOR:
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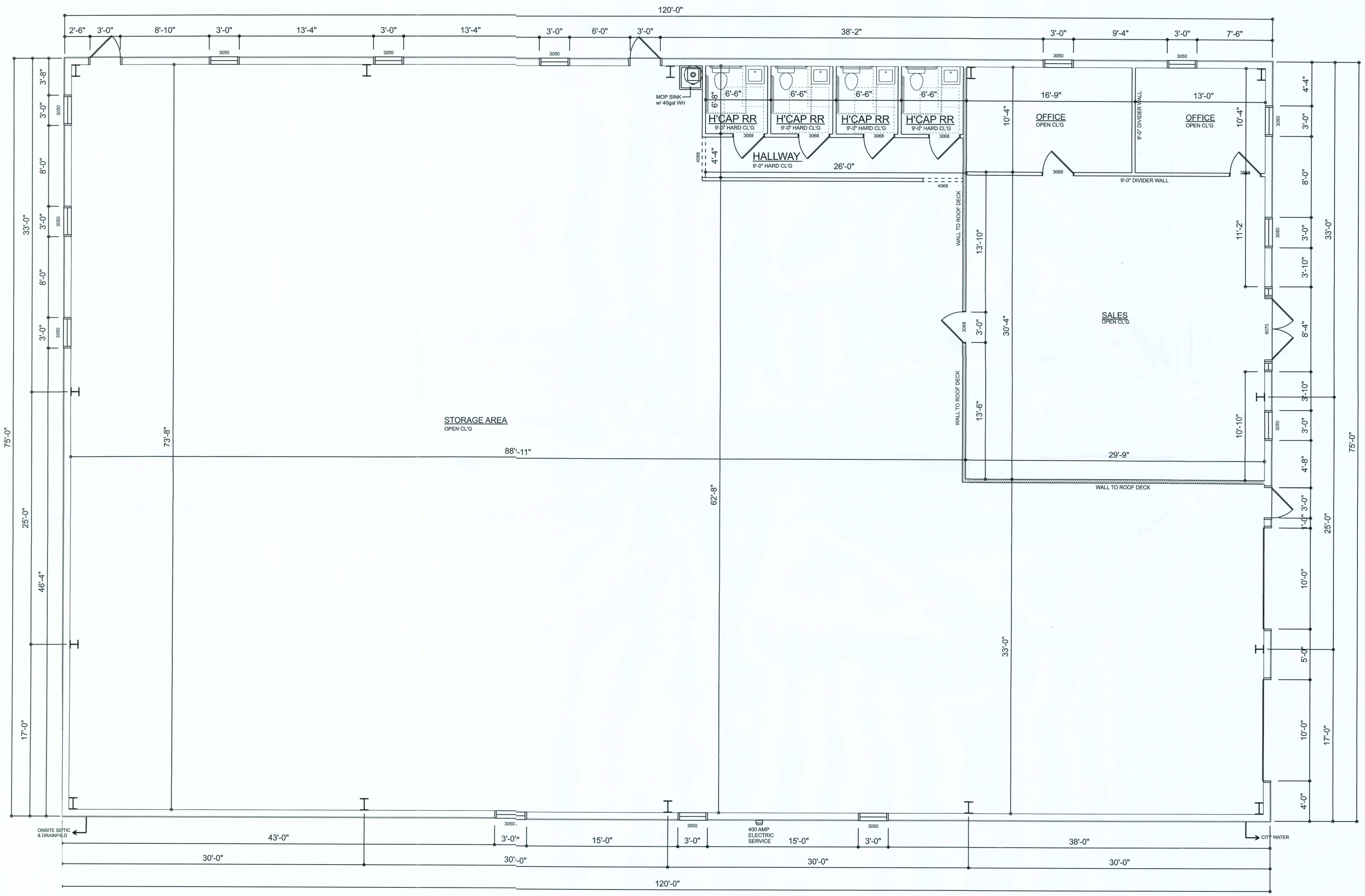
SHEET:
A.2
2 OF 3



DIMENSIONED FLOOR PLAN

SCALE: 3/16" = 1'-0"

REVISION:

DRAWN:

PROPOSED BUILDINGS FOR:

DIY LETTERING

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COMM: 2K1892

SHEET: A.3

3 OF 3

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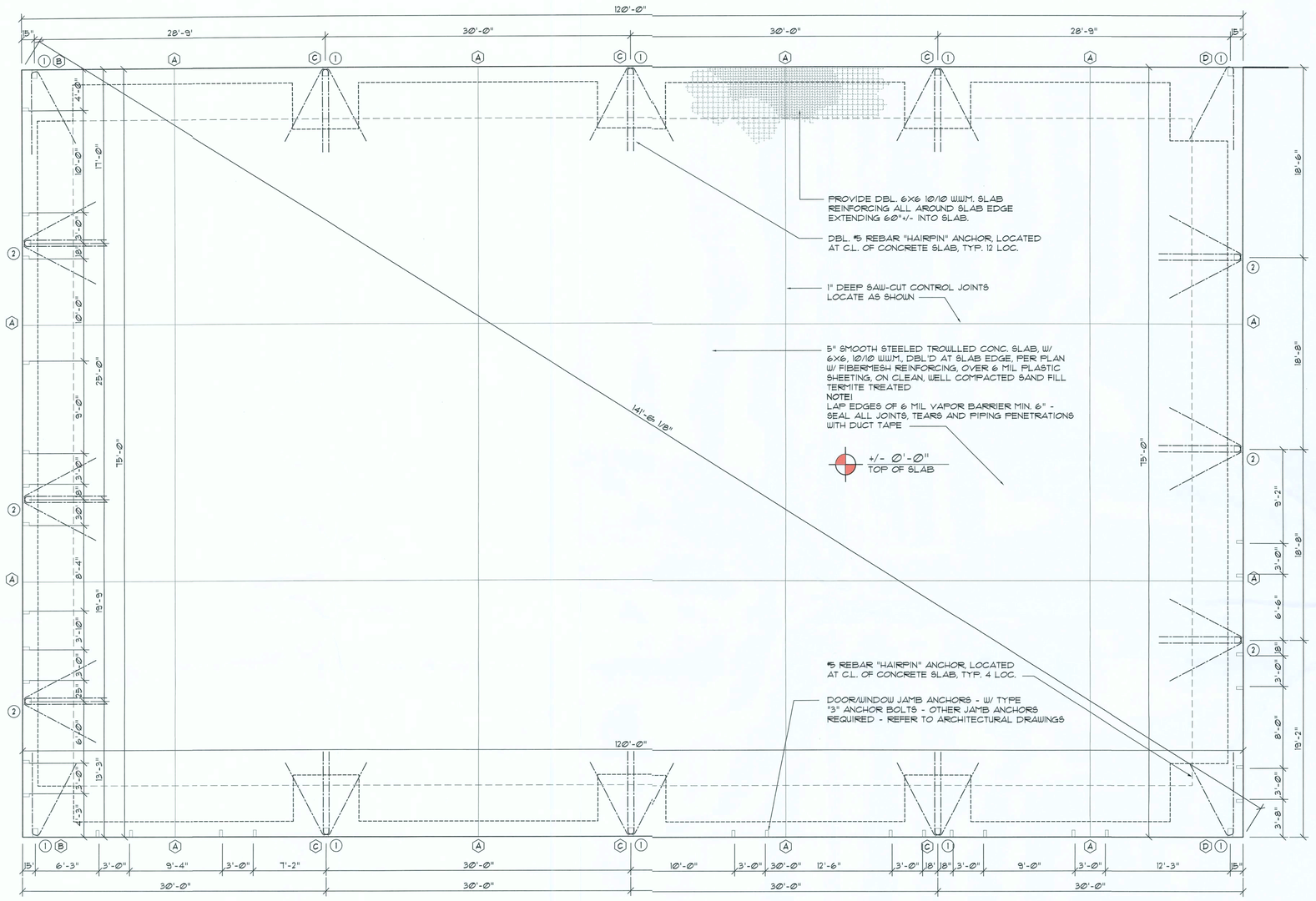


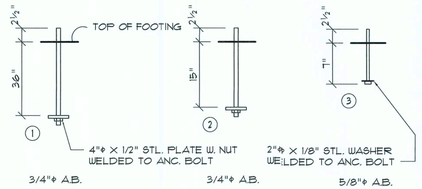
ANCHOR BOLT / FOUNDATION SIZING:

THE ANCHOR BOLT DIAMETERS AND DEVELOPED LENGTHS INDICATED IN THIS DRAWING WERE DETERMINED USING SHEAR FRICTION THEORY AS DESCRIBED IN AISC DESGN GUIDE No.7, SECTION 9.2, ASSUMING AN ANCHOR BOLT MATERIAL OF ASTM A307 OR A36. THE COMBINED FORCES ACTING AT THE BASE OF THE STEEL FRAME RESULTING IN A VERTICAL REACTION ACTING UPON THE FOUNDATION WERE DEVELOPED AS FOLLOWS:

T = Td + Tsf

WHERE
T = TOTAL TENSILE FORCE PER BOLT
Td = TENSILE FORCE PER BOLT DUE TO DIRECTLY APPLIED LOAD = P/n
Tsf = TENSILE FORCE PER BOLT DUE TO SHEAR FRICTION = V / (n x u)

WHERE
P = P = TOTAL UPLIFT TO BE RESISTED BY ANCHOR BOLT GROUP
V = V = TOTAL SHEAR FORCE TO BE RESISTED BY ANCHOR BOLT GROUP
n = n = NUMBER OF ANCHOR BOLTS
u = u = COEFFICIENT OF FRICTION (TAKEN AS 0.7 FOR UNGROUTED BASE PLATES OR 0.9 FOR GROUTED BASE PLATES)



NOTE!
ALL ANCHOR BOLTS ARE ASTM GRADE A36 STEEL ROD, THREADED 3", OR GRADE A307, BLACK, AND FREE FROM RUST AND SCALE

NOTE!
ALL DOOR/ENTRY OPENINGS INDICATED ARE NET SIZE, AND REQUIRE 2 #5 ANCHOR BOLTS AT EACH SIDE OF THE OPENING REFER TO METAL BUILDING SHOP DRAWINGS FOR DETAIL

FOOTING SCHEDULE

(A) 18" X 18" X CONTINUOUS, FOOTING, W/ 2 #5 REBAR, BOTTOM, CONT., LAP SPLICE ALL REBAR A MINIMUM OF 40 BAR DIAMETERS - TYPICAL

(B) 60" X 60" X 48", FOOTING, W/ 7 #6 REBAR, EA. WAY, TOP & BOTTOM, CONT., BATTER SIDES OF FOOTING MIN. 15° - SEE SLAB DETAIL, BELOW

(C) 78" X 78" X 48", FOOTING, W/ 8 #6 REBAR, EA. WAY, TOP & BOTTOM, CONT., BATTER SIDES OF FOOTING MIN. 15° - SEE SLAB DETAIL, BELOW

(D) 84" X 84" X 48", FOOTING, W/ 10 #6 REBAR, EA. WAY, TOP & BOTTOM, CONT., BATTER SIDES OF FOOTING MIN. 15° - SEE SLAB DETAIL, BELOW

STRUCTURAL DESIGN CRITERIA:

1. THE DESIGN COMPLIES WITH THE REQUIREMENTS OF THE 2017 FLORIDA BUILDING CODE - SECTION 1609 AND OTHER REFERENCED CODES AND SPECIFICATIONS. ALL CODES AND SPECIFICATIONS SHALL BE LATEST EDITION AT TIME OF PERMIT.

2. WIND LOAD CRITERIA: RISK CATAGORY: 2, EXPOSURE "C"

BASED ON ANSI/ASCE 7-10. 2017 FBC 1609-A WIND VELOCITY: V_{ULT} = 120 MPH, V_{ASD} = 98 MPH

3. ROOF DESIGN LOADS:
SUPERIMPOSED DEAD LOADS: . . . . . 20 PSF
SUPERIMPOSED LIVE LOADS: . . . . . 20 PSF

4. FLOOR DESIGN LOADS:
SUPERIMPOSED DEAD LOADS: . . . . . 25 PSF
SUPERIMPOSED LIVE LOADS:
COMMERCIAL . . . . . 100 PSF
BALCONIES/CORRIDORS . . . . . 80 PSF

5. WIND NET UPLIFT: ARE AS INDICATED ON PLANS

BUILDING COMPONENTS & CLADDING LOADS
MEAN BUILDING HEIGHT = 30.0', EXPOSURE "B"

	ZONE	AREA	Vult 110 MPH	Vult 120 MPH	Vult 130 MPH	Vult 140 MPH
ROOF 1° TO 27°	1	10	12.0 / -19.9	14.9 / -23.7	17.5 / -27.8	20.3 / -32.3
	1	20	11.4 / -19.4	13.6 / -23.0	16.0 / -27.0	18.5 / -31.4
	1	50	10.0 / -18.6	11.9 / -22.2	13.9 / -26.0	16.1 / -30.2
	2	10	12.5 / -34.7	14.9 / -41.3	17.5 / -48.4	20.3 / -56.2
	2	20	11.4 / -31.9	13.6 / -38.0	16.0 / -44.6	18.5 / -51.7
	2	50	10.0 / -28.2	11.9 / -33.6	13.9 / -39.4	16.1 / -45.7
	3	10	12.5 / -51.3	14.9 / -61.0	17.5 / -71.6	20.3 / -83.1
	3	20	11.4 /-47.9	13.6 / -57.1	16.0 / -67.0	18.5 / -77.7
	3	50	10.0 / -43.5	11.9 / -51.8	13.9 / -60.8	16.1 / -70.5
WALL	4	10	21.8 / -23.6	25.9 / -34.7	30.4 / -33.0	35.3 / -38.2
	4	20	20.8 / -22.6	24.7 / -26.9	29.0 / -31.6	33.7 / -36.7
	4	50	19.5 / -21.3	23.2 / -25.4	27.2 / -29.8	31.6 / -34.6
	5	10	21.8 / -29.1	25.9 / -34.7	30.4 /-40.1	35.3 / -47.2
	5	20	20.8 / -27.2	24.7 / -32.4	29.0 / -38.0	33.7 / -44.0
	5	50	19.5 / -24.6	23.2 / -29.3	27.2 / -34.3	31.6 / -39.8

HEIGHT & EXPOSURE ADJUSTMENT COEFFICIENTS FOR BUILDING COMPONENTS & CLADDING

BLDG HEIGHT	EXPOSURE "B"	EXPOSURE "C"	EXPOSURE "D"
15	1.00	1.21	1.47
20	1.00	1.29	1.55
25	1.00	1.35	1.61
30	1.00	1.40	1.66

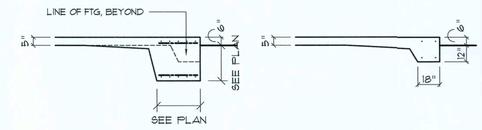
NOTE!
REFER TO THE METAL BUILDING SHOP DRAWINGS PREPARED BY MESCO CORPORATION, FOR EXACT LOCATION OF ALL EMBEDDED ANCHOR BOLTS.

NOTE!
ADDED FILL SHALL BE APPLIED IN 12" LIFTS - EA. LIFT SHALL BE COMPACTED TO 98% DRY COMPACTION PER THE "MODIFIED PROCTOR" METHOD.

NOTE!
THE DESIGN WIND SPEED FOR THIS PROJECT IS 120 MPH PER 2017 FBC 6th ED. 1609 AND LOCAL JURISDICTION REQUIREMENTS

NOTE!
ALL ANCHOR BOLTS ARE ASTM GRADE A36 STEEL ROD, THREADED 3 1/2", BLACK AND FREE FROM RUST AND SCALE

NOTE!
THIS PROJECT IS TYPE 5 UNPROTECTED CONSTRUCTION PER 2017 FBC TABLE 503 AND TABLE 600



FOOTING @ MAIN FRAMES
SCALE: 1/4" = 1'-0"

FOOTING @ SLAB EDGE
SCALE: 1/4" = 1'-0"

Foundation PLAN

SCALE: 3/16" = 1'-0"

Anchor Bolt DETAILS (1) (2) (3)

SCALE: 1" = 1'-0"

REVISION:

DRAWN:
mg

PROPOSED BUILDINGS FOR:
DIY LETTERING
WINDSWEPT GLEN, LAKE CITY, FLORIDA 32024

Celebrating 46 Years of Excellence 1972 - 2018 N.P. Geisler, Architect, AR0007005

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DATE:
07 DEC 2018
COMM:
2K1892
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S.1
1 OF 2

18 Dec 2018
AR0007005

FIELD "AS-BUILT" NOTES

GENERAL STRUCTURAL NOTES

GENERAL:

1. THE DRAWINGS ARE INTENDED TO SHOW THE GENERAL ARRANGEMENT, DESIGN AND EXTENT OF THE WORK AND ARE PARTIALLY DIAGRAMMATIC. THEY ARE NOT INTENDED TO BE SCALED FOR ROUGH-IN MEASUREMENTS, OR TO SERVE AS SHOP DRAWINGS OR PORTIONS THEREOF.

2. ALL DETAILS AND SECTIONS SHOWN ON THE DRAWINGS ARE INTENDED TO BE TYPICAL AND SHALL BE CONSTRUED TO APPLY TO ANY SIMILAR SITUATION ELSEWHERE ON THE PROJECT, EXCEPT WHERE A DIFFERENT DETAIL OR SECTION IS SHOWN.

3. PRIOR TO START OF CONSTRUCTION, THE CONTRACTOR AND ALL THE SUBCONTRACTORS SHALL VERIFY ALL GRADES, LINES, LEVELS, DIMENSIONS AND COORDINATE EXISTING CONDITIONS AT THE JOB SITE WITH THE PLANS AND SPECIFICATIONS. THEY SHALL REPORT ANY INCONSISTENCIES OR ERRORS IN THE ABOVE TO THE ARCHITECT/ENGINEER BEFORE COMMENCING WORK. THE CONTRACTOR AND HIS SUBCONTRACTORS SHALL LAY OUT THEIR WORK FROM ESTABLISHED REFERENCE POINTS AND BE RESPONSIBLE FOR ALL LINES, ELEVATIONS AND MEASUREMENTS IN CONNECTION WITH THEIR WORK.

4. IF ANY ERRORS OR OMISSIONS APPEAR IN THE DRAWINGS, GENERAL NOTES OR OTHER DOCUMENTS, THE CONTRACTOR SHALL NOTIFY THE ARCHITECT IN WRITING OF SUCH OMISSION OR ERROR PRIOR TO PROCEEDING WITH ANY WORK WHICH APPEARS IN QUESTION. IN THE EVENT OF THE CONTRACTOR'S FAILING TO GIVE SUCH AN ADVANCED NOTICE, HE SHALL BE HELD RESPONSIBLE FOR THE RESULTS OF ANY SUCH ERRORS OR OMISSIONS AND THE COST OF RECTIFYING THE SAME.

5. THE CONTRACTOR SHALL USE THE STRUCTURAL DRAWINGS AND SPECIFICATIONS TOGETHER WITH THE ARCHITECTURAL, MECHANICAL, ELECTRICAL AND OTHER TRADE DRAWINGS AND SHOP DRAWINGS, TO LOCATE DEPRESSED SLABS, SLOPES, DRAINS, OUTLETS, RECESSES, OPENINGS, BOLT SETTING, SLEEVES, DIMENSIONS, ETC. NOTIFY ARCHITECT/ENGINEER, IN WRITING, OF ANY POTENTIAL CONFLICTS BEFORE PROCEEDING WITH THE WORK.

SHOP DRAWINGS AND DELEGATED ENGINEERING:

1. ALL SHOP DRAWINGS SHALL BE SUBMITTED FOR ARCHITECT'S REVIEW ONLY AFTER THEY HAVE BEEN THOROUGHLY REVIEWED BY THE CONTRACTOR FOR CONSTRUCTION METHODS, DIMENSIONS AND OTHER TRADE REQUIREMENTS, AND STAMPED WITH THE CONTRACTOR'S APPROVAL STAMP. THE ARCHITECT ASSUMES NO RESPONSIBILITY FOR DIMENSIONS, QUANTITIES, ENGINEERING DESIGN BY DELEGATED ENGINEERS, ERRORS OR OMISSIONS AS A RESULT OF REVIEWING ANY SHOP DRAWINGS. ANY ERRORS OR OMISSIONS MUST BE MADE GOOD BY THE CONTRACTOR, IRRESPECTIVE OF RECEIPT, CHECKING OR REVIEW OF DRAWINGS BY THE ENGINEER AND EVEN THOUGH WORK IS DONE IN ACCORDANCE WITH SUCH DRAWINGS.

2. BEFORE STRUCTURAL INSPECTIONS CAN BE MADE ON A PORTION OF THE STRUCTURE, ALL RELATED SHOP DRAWINGS, DELEGATED ENGINEERING, PRODUCT APPROVAL, MANUFACTURER'S DATA AND OTHER RELATED INFORMATION, MUST BE REVIEWED AND ACCEPTED BY THE ARCHITECT-OF-RECORD AND APPROVED BY THE BUILDING DEPARTMENT.

3. SHOP DRAWINGS SHALL CONTAIN ALL INFORMATION SHOWN ON THE STRUCTURAL PLANS (RELATED TO THE DELEGATED DESIGN) INCLUDING ALL DESIGN LOADS, IN ADDITION TO THE INFORMATION REQUIRED BY THE DELEGATED ENGINEER'S DESIGN.

4. ARCHITECT WILL REVIEW ALL SUBMITTED SHOP DRAWINGS, PREPARED AND SIGNED AND SEALED BY THE CONTRACTOR'S DELEGATED ENGINEER, ONLY FOR GENERAL COMPLIANCE WITH THE DESIGN INTENT, REQUIRED LOADING AND COORDINATION WITH THE STRUCTURAL DESIGN.

5. CONTRACTOR SHALL SUBMIT TO THE ARCHITECT TWO SETS OF BLUE PRINTS OF THE STRUCTURAL SHOP DRAWINGS FOR ARCHITECT REVIEW, BEFORE STARTING FABRICATION. THE ARCHITECT WILL RETURN ONE MARKED UP AND STAMPED COPY TO THE CONTRACTOR. THE MARKED-UP COPY SHALL BE USED TO MAKE THE PRINTS REQUIRED FOR SHOP DRAWING DISTRIBUTION.

CONSTRUCTION MEANS AND METHODS:

1. THE CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCE OR PROCEDURES, SAFETY PRECAUTIONS, SHORES, RESHORES, LATERAL BRACING AND PROGRAMS IN CONNECTION WITH THE PROJECT, ARE THE SOLE RESPONSIBILITY OF THE CONTRACTOR. OUR SERVICES DO NOT GUARANTEE NOR ASSURE LIABILITY FOR THE JOB SAFETY, TEMPORARY SHORING AND BRACING AND THE PERFORMANCE OF THE CONTRACTOR.

2. THE CONTRACTOR IS RESPONSIBLE AND SHALL COMPLY WITH THE SAFETY REQUIREMENTS OF THE 2010 FLORIDA BUILDING CODE AND APPLICABLE LOCAL, STATE AND FEDERAL LAWS.

3. PROVIDE ALL SHORING, BRACING AND SHEETING AS REQUIRED FOR SAFETY, STRUCTURAL STABILITY AND FOR THE PROPER EXECUTION OF THE WORK. REMOVE WHEN WORK IS COMPLETED.

4. PROVIDE AND MAINTAIN GUARD LIGHTS AT ALL BARRICADES, RAILINGS, OBSTRUCTIONS IN THE STREETS, ROADS OR SIDEWALKS AND ALL TRENCHES OR PITS ADJACENT TO PUBLIC WALKS OR ROADS.

5. AT ALL TIMES, PROVIDE PROTECTION AGAINST WEATHER (RAIN, WIND, STORMS OR THE SUN), SO AS TO MAINTAIN ALL WORK, MATERIALS, APPARATUS AND FIXTURES FREE FROM INJURY OR DAMAGE.

6. AT THE END OF THE DAYS WORK, COVER ALL WORK LIKELY TO BE DAMAGED. ANY WORK DAMAGED BY FAILURE TO PROVIDE PROTECTION SHALL BE REMOVED AND REPLACED WITH NEW WORK AT THE CONTRACTOR'S EXPENSE.

7. THE CONTRACTOR SHALL PAY FOR ALL DAMAGES TO ADJACENT STRUCTURES, SIDEWALKS AND TO STREETS OR OTHER PUBLIC PROPERTY OR PUBLIC UTILITIES.

FOUNDATIONS: (SPREAD FOOTINGS)

1. FOUNDATIONS ARE DESIGNED TO BEAR ON WELL COMPACTED GRADE OR CLEAN FILL OF AN ALLOWABLE BEARING CAPACITY OF 1,000 PSF MINIMUM. FOR REQUIRED SOIL BEARING CAPASITIES GREATER THAN 1,000 PSF, A CERTIFIED TESTING LABORATORY SHALL BE ENGAGED BY THE OWNER TO VERIFY THAT THE REQUIRED BEARING CAPACITY WAS OBTAINED. SAID SOIL CAPACITY SHALL BE CERTIFIED AND TESTED BY A FLORIDA REGISTERED FOUNDATION ENGINEER, PRIOR TO CASTING OF CONCRETE IN THE FOOTINGS.

2. NATURAL GRADE (OR FILL) BELOW FOOTINGS SHALL BE COMPACTED TO 98 % MODIFIED PROCTOR (ASTM D-1557).

3. TOP OF WALL FOOTINGS TO BE AT THE SAME ELEVATION AS TOP OF COLUMN PAD FOOTINGS. STEP WALL FOOTING FROM HIGHER COLUMN FOOTING TO THE LOWER ONE (AS DETAILED ON THE PLANS).

4. BOTTOM OF ALL FOOTINGS TO BE A MINIMUM 1'-6" BELOW THE TOP OF CONCRETE SLAB ON GRADE (UNLESS OTHERWISE NOTED) OR MINIMUM 1'-0" BELOW FINISHED GRADE, WHICHEVER IS LOWER. IN THE EVENT THAT THE SLAB STEPS ON EACH SIDE OF THE FOOTING, THE FOOTING SHALL BE 1'-6" BELOW TOP OF THE LOWER SLAB.

5. REINFORCING IN THE CONTINUOUS WALL FOOTINGS (MONOLITHIC AND NON-MONOLITHIC) SHALL BE SPLICED 40 BAR DIAMETERS MINIMUM AND SHALL EXTEND CONTINUOUSLY THRU ALL FOOTING PADS.

6. ALL LONGITUDINAL REBARS IN THE CONTINUOUS WALL FOOTINGS, SHALL BE CONTINUED AT BENTS AND CORNERS BY BENDING THE REBARS 48 BAR DIAMETERS AROUND THE CORNERS OR ADDING MATCHING CORNER BARS, EXTENDING 48 BAR-DIAMETERS INTO FOOTING EACH SIDE OF CORNER OR BENT.

7. ALL FOOTINGS SHALL BE 12" MINIMUM THICKNESS.

8. WHEN GEO-TECHNICAL REPORTS ARE PROVIDED, ALL RECOMENDATIONS OF THE SOILS ENGINEER SHALL BE FOLLOWED AND THE DESIGN SOIL BEARING PRESSURE SHALL BE AS RECOMMENDED IN SUCH REPORTS, AND SUPERCEDES PRESSURES INDICATED HEREIN.

CONCRETE SLABS ON GRADE:

1. ALL INTERIOR AND EXTERIOR SLABS AND WALKWAYS AS SHOWN ON THE STRUCTURAL OR ARCHITECTURAL PLANS, SHALL BE FOUR INCHES THICK MINIMUM REINFORCED WITH 6 X 6 - W1.4 X W1.4 WELDED WIRE FABRIC (UNLESS OTHERWISE NOTED).

2. ALL SLABS ON GRADE TO BE CONSTRUCTED IN ACCORDANCE WITH LATEST A.C.I - "GUIDE FOR CONCRETE FLOOR AND SLAB CONSTRUCTION" (A.C.I. - 302.1R)

3. JOINTS SHALL BE PROVIDED IN ALL INTERIOR SLABS ON GRADE AT LOC. INDICATED ON THE PLANS DIVIDING THE SLAB INTO SQUARE PANELS NOT TO EXCEED 20 X 20 FT. IN SIZE. CAST SLAB IN LONG ALTERNATE STRIPS. PROVIDE A CONTRACTION JOINT BETWEEN EACH STRIP. SEE PLAN FOR SAW-CUT, CONTRACTION AND ISOLATION JOINT DETAILS.

4. PROVIDE SAW-CUT JOINTS AT ALL SIDEWALKS AT A MAXIMUM SPACING OF FIVE FEET ON CENTERS AND ISOLATION JOINTS AT 20 FEET O.C. (U.O.N.).

5. FILL MATERIAL SHALL BE PLACED IN LIFTS NOT EXCEEDING 12" AND COMPACTED TO 98 % MODIFIED PROCTOR (ASTM D-1557) WITHIN A DISTANCE OF 3 FEET BEYOND ALL FOOTING EDGES. TAKE AT LEAST ONE DENSITY TEST FOR EACH 1,600 SQ.FT. OF AREA AND 12" BELOW SURFACE. SEND RESULTS OF THE TEST TO OWNER, ARCHITECT AND ENGINEER.

CONCRETE AND REINFORCING:

1. CONCRETE DESIGN AND REINFORCEMENT IN ACCORDANCE WITH "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE" (A.C.I. 318 - LATEST EDITION) AND WITH "DETAILS AND DETAILING OF CONCRETE REINFORCEMENT" - (A.C.I. 315 - LATEST EDITION).

2. ALL CONCRETE WORK IN ACCORDANCE WITH "SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDING" (A.C.I. 301 - LATEST EDITION). PRODUCTION OF CONCRETE, DELIVERY, PLACING AND CURING TO BE IN ACCORDANCE WITH "HOT WEATHER CONCRETING" (A.C.I. 305R - LATEST EDITION).

3. ALL CONCRETE TO BE REGULAR WEIGHT WITH A DESIGN STRENGTH OF 3,000 P.S.I. AT 28 DAYS. MAXIMUM SLUMP 5".

4. ALL REINFORCING TO BE NEW BILLET STEEL CONFORMING TO THE LATEST A.S.T.M. A-615 GRADE 60, FABRICATED IN ACCORDANCE WITH C.R.S.I. MANUAL OF STANDARD PRACTICE AND PLACED IN ACCORDANCE WITH A.C.I. 315 AND C.R.S.I. MANUAL OF STANDARD PRACTICE.

5. CONCRETE COVER UNLESS OTHERWISE DETAILED ON DRAWINGS:

FOOTINGS:	(BOTTOM). . . . . 3"
	(TOP & SIDES) . . . . . 2"
SLABS ON GRADE:	CENTERED W/SLAB

6. BEAM REINFORCEMENT: LAPPED 36 BAR DIAMETER OR MINIMUM 18 INCHES. BOTTOM BARS SPLICED ONLY AT SUPPORTS, TOP BARS SPLICED ONLY AT MID-SPAN. ALL TOP BARS HOOKED AT NONCONTINUOUS EDGES (U.O.N.). ALL HOOKS TO BE STANDARD 90 DEGREE HOOKS AS REQUIRED (U.O.N.).

7. ADDED REINFORCEMENT: PROVIDE ADDITIONAL CORNER BARS BENT 36 INCHES MINIMUM EACH WAY AT "L" AND "T" CORNERS IN OUTER FACES OF ALL BEAMS TO MATCH ALL HORIZONTAL BAR (TOP, BOTTOM AND INTERMEDIATE REBARS).

8. SEE PLAN FOR MINIMUM SIZE CONCRETE TIE BEAM REQUIREMENTS.

REVISION:

DRAWN: rpg

PROPOSED BUILDING FOR:

DIY LETTERING

WINDSWEPT GLEN, LAKE CITY, FLORIDA 32024

Celebrating 46 Years of Service
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NICHOLAS PAUL GEISLER ARCHITECT
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1758 NW Brown Rd
Lake City, FL 32055
386-365-4525

DATE: 07 DEC 2018

COMM: 2K1892

SHEET: S.2

2 OF 2

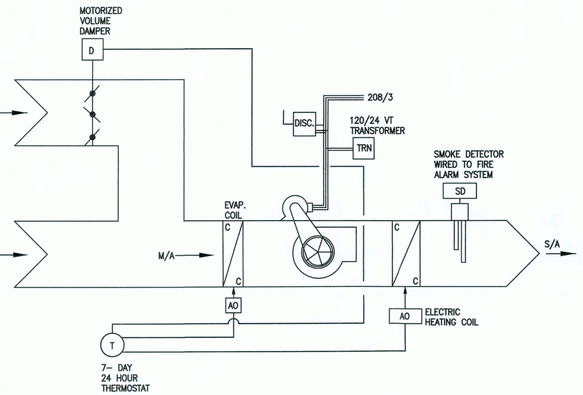
8 Dec 2018

AR0007005

PACKAGED UNIT UNIT SCHEDULE

PLAN MARK	NOMINAL TONS	BASIS O' DESIGN	AIR FLOWS		FAN DATA				COOLING COIL							UNIT ELEC. DATA					SYSTEM SEER/ EER	UNIT WT.
			TOTAL CFM	OA CFM MIN/MAX	EXT. SP	TOT. SP	HP	TYPE	DESIGN CONDITIONS EDB	EWB	LDB	LWB	SEN. MBH	TOTAL MBH	CLG. STAGES	HEAT. KW	HEAT STAGES	MCA	MOCP	VOLT/ PHASE		
RTU-1	12.5	50TC-E14Z2B6-0A0G0	5000	500	0.8	–	2.89	FC	77	64	56	55	85.92	148.93	2	33.0	2	60.1	70	208/3	11.0	1482
RTU-2	12.5	50TC-E14Z2B6-0A0G0	5000	500	0.8	–	2.89	FC	77	64	56	55	85.92	148.93	2	33.0	2	60.1	70	208/3	11.0	1482

NOTES:
1. PROVIDE THE FOLLOWING OPTIONS/ACCESSORIES:
   a. HUMIDI-MIZER HUMIDITY CONTROL
   b. ELECTRIC HEAT WITH SINGLE PONT ELECTRICAL CONNECTION
   c. 14" MANUFACTURER'S ROOF CURB TO BE USED FOR PAD MOUNTING
   d. THROWAWAY FILTERS DURING CONSTRUCTION, 30% PLEATED FILTERS JUST PRIOR TO T&B.
   e. HIGH AND LOW PRESSURE SAFETY CONTROLS UPGRADE KIT
   f. 2-SPEED VFD STAGED AIR VOLUME (SAV)
   g. ELECTRO-MECHANICAL CONTROLS THAT CAN BE USED WITH W7212 ECONOMISER® IV
   h. 7 DAY 24 HR PROGRAMMABLE THERMOSTAT TO INSURE UNIT IS NOT ENERGIZED DURING UNOCCUPIED HOURS
2. COORDINATE ELECTRICAL REQUIREMINTS WITH ELECTRICAL CONTRACTOR PRIOR TO ORDER AND INSTALLATION.



ROOF TOP UNIT 1 CONTROL SCHEMATIC

NOT TO SCALE

DESIGN CONDITIONS

EXTERIOR DESIGN CONDITIONS
SUMMER DRY/WET BULB 96°F/77°F
WINTER DRY BULB 29°F

INTERIOR DESIGN CONDITIONS
SUMMER 75°F +/- 3°F
50% +/- 10% R.H.
WINTER 72°F

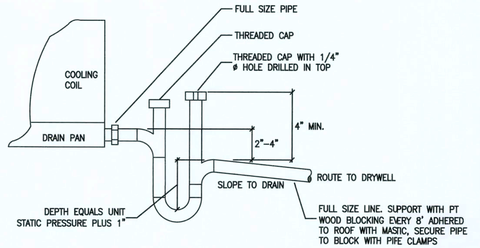
PACKAGED UNIT SEQUENCE OF OPERATION:

1. SUPPLY FAN IS ENERGIZED BY A TWO POSITION SWITCH. WHEN THE SWITCH IS CLOSED IT SHALL ENERGIZE THE SYSTEM PROVIDING POWER TO ALL COMPONENTS AND LOW VOLTAGE CONTROL TO ALL CONTROL DEVICES.
2. ROOF-TOP UNIT SHALL BE CONTROLLED WITH A WALL MOUNTED THERMOSTAT CONTROLLING SPACE TEMPERATURE. THE THERMOSTAT SHALL INCLUDE OFF-AUTO-COOLING-HEATING MODES AND TIME-DAY-WEEK SCHEDULING CAPABILITIES.
3. WHEN THE SPACE TEMPERATURE RISES ABOVE THE SETPOINT THE COMPRESSOR/S SHALL CYCLE TO MAINTAIN ROOM TEMPERATURE SETPOINT.
4. WHEN THE SPACE TEMPERATURE IS SATISFIED THE UNIT SHALL COMPLETELY SHUT-DOWN. THE SUPPLY FAN SHALL NOT RUN WHEN THE COMPRESSOR/CONDENSERS ARE NOT ENERGIZED.
5. WHEN THE SPACE TEMPERATURE FALLS BELOW THE SETPOINT THE ELECTRIC HEAT SHALL ENERGIZE TO MAINTAIN ROOM TEMPERATURE SETPOINT.
6. THE SYSTEM SHALL IMPOSE A 300 SECOND TIME DELAY TO RESTART THE SUPPLY FAN, COMPRESSORS, AND CONDENSER; FANS AFTER SYSTEM SHUT DOWN.
7. UNITS ON ALARM CONDITION FROM THE CARBON DIOXIDE SENSOR SHALL RELAY A SIGNAL TO OPEN 2ND STAGE OF ECONOMIZER. WHEN THE ALARM CONDITION CEASES THE ECONOMIZER SHALL RETURN TO 1ST STAGE.

DIFFUSER SCHEDULE

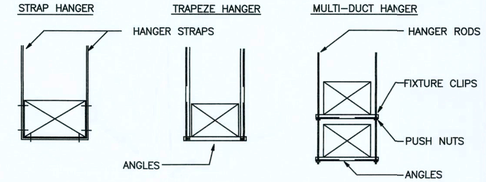
TYPE	SERVICE	CFM RANGE MIN	CFM RANGE MAX	MODULE SIZE	NECK 'N'	MODEL
A	SUPPLY-CEILING	0	95	24x24	6"	TITUS – TMS-I
		96	220	24x24	8"	TITUS – TMS-I
		221	400	24x24	10"	TITUS – TMS-I
		401	600	24x24	12"	TITUS – TMS-I
		601	850	24x24	14"	TITUS – TMS-I
		851	1200	24x24	16"ø	TITUS – TMS-I
B	RETURN/EXHAUST CEILING	0	150	24x24	6"	TITUS 50F
		151	260	24x24	8"	TITUS 50F
		261	450	24x24	10"	TITUS 50F
		451	595	24x24	12"	TITUS 50F
		596	900	24x24	14"	TITUS 50F
		901	1200	24x24	16"	TITUS 50F
C	SUPPLY – CEILING	0	120	12x12	6"	TITUS – TDC
		121	210	12x12	8"	TITUS – TDC
D	SUPPLY – SIDEWALL	0	165	8X6	–	TITUS – 300FL
		166	275	12X6	–	TITUS – 300FL
		276	400	12X8	–	TITUS – 300FL
		401	495	12X10	–	TITUS – 300FL
		496	595	18X10	–	TITUS – 300FL
		596	695	18X12	–	TITUS – 300FL
		696	800	18X14	–	TITUS – 300FL
		801	995	24X14	–	TITUS – 300FL
		996	1100	36X12	–	TITUS – 300FL
E	RETURN – SIDEWALL	1501	2100	22x22	–	TITUS – 355FLF1
		2101	4500	24x48	–	TITUS – 355FLF1

NOTES:
1. DIFFUSER RUNOUT SIZE SHALL BE DIFFUSER NECK SIZE, UNLESS OTHERWISE NOTED ON DRAWINGS.
2. COORDINATE COLOR OF DIFFUSERS WITH INTERIOR DESIGNER.
3. PROVIDE OPPOSED BLADE VOLUME DAMPER INSTALLED ON BACK-SIDE OF SUPPLY/RETURN REGISTERS INSTALLED IN GYPSUM CEILINGS. PROVIDE STARTING COLLAR WITH BALANCING DAMPER AT FLEX DUCT CONNECTION ALL OTHER SUPPLY/RETURN REGISTERS/DIFFUSERS.
4. PROVIDE SURFACE MOUNT FRAME TYPE FOR DIFFUSERS INSTALLED IN GYPSUM/HARD CEILINGS AND 24"X24" MODULE LAY-IN FOR T-BAR DROP CEILINGS.



PACKAGED UNIT CONDENSATE DRAIN DETAIL

NOT TO SCALE



HANGER SIZES FOR RECTANGULAR DUCT

LONGEST DIMENSION OF DUCT	ROUND HANGERS	STRAP HANGERS	TRAPEZE STRAP HANGERS	MAXIMUM SPACING
UP THRU 18"	8 GA. WIRE	1"X22 GAUGE	1"X1"X1/8"	10'-0"
19" THRU 30"	8 GA. WIRE	1"X22 GAUGE	1"X1"X1/8"	10'-0"
31" THRU 42"	3/8" ROD	1"X18 GAUGE	1-1/2"X1-1/2"X1/8"	10'-0"
43" THRU 60"	3/8" ROD	1"X18 GAUGE	1-1/2"X1-1/2"X1/8"	10'-0"
61" THRU 84"	3/8" ROD	1"X18 GAUGE	2"X2"X1/8"	8'-0"
85" THRU 96"	3/8" ROD	1"X18 GAUGE	2"X2"X3/16"	8'-0"
97" THRU 120"	3/8" ROD	1"X16 GAUGE	2"X2"X1/4"	8'-0"

RETANGULAR DUCT HANGERS

NOT TO SCALE

FAN SCHEDULE

PLAN MARK	BASIC OF DESIGN	TYPE	CFM	STATIC PRESS. IN. WG.	FAN RPM	MOTOR RPM	MOTOR HP	VOLT/ PHASE	DRIVE TYPE	FAN INTERLOCK
EF-1	LOREN COOK GC144	CEILING	100	0.33	952	–	76.2W	115/1	D	SWITCH
EF-2	LOREN COOK GC144	CEILING	100	0.33	952	–	76.2W	115/1	D	SWITCH
EF-3	LOREN COOK GC144	CEILING	100	0.33	952	–	76.2W	115/1	D	SWITCH
EF-4	LOREN COOK GC144	CEILING	100	0.33	952	–	76.2W	115/1	D	SWITCH

NOTES:

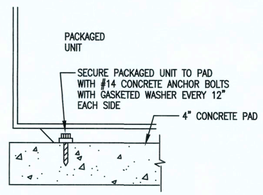
PROVIDE THE FOLLOWING FOR WALL MOUNTED:
A. BACK DRAFT DAMPER
B. BIRD SCREEN
C. BLADE SAFETY GUARD
D. DISCONNECT

PROVIDE THE FOLLOWING FOR ROOF MOUNTED:
A. BACK DRAFT DAMPER
B. SPEED CONTROLLER
C. BIRD SCREEN
D. DISCONNECT
E. SLOPED ROOF CURB

PROVIDE THE FOLLOWING FOR CEILING MOUNTED:
A. BACK DRAFT DAMPER
B. SPEED CONTROLLER
C. BIRD SCREEN
D. DISCONNECT
E. ISOLATOR KIT

MECHANICAL LEGEND

- STARTING COLLAR W/DAMPER
- THERMOSTAT
- UC 3/4" DOOR UNDERCUT
- B BACKDRAFT DAMPER
- SD DUCT MOUNTED SMOKE DETECTOR
- SUPPLY DIFFUSER
- RETURN REGISTER
- FLEXIBLE DUCT

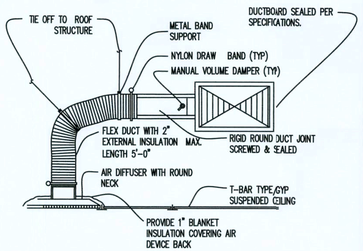


PACKAGED UNIT MOUNTING DETAIL

NOT TO SCALE

GENERAL NOTES AND SPECIFICATIONS

1. ALL WORK SHALL BE IN ACCORDANCE WITH THE 2017 FLORIDA BUILDING CODE – MECHANICAL.
2. EXPOSED DUCT EXTERIOR DUCT SYSTEMS IN THE SHALL BE GALVANIZED SHEET-METAL FABRICATED AND INSTALLED IN ACCORDANCE WITH SMACNA DUCT CONSTRUCTION STANDARDS FOR 2" PRESSURE CLASS. THE EXTERIOR DUCTS SHALL HAVE EXTERIOR THERMAL WRAP OF MIN. 2" FOIL FACED DUCT THERMAL WRAP RIGID BOARD INSULATION, WITH COVERING OF 0.8MM ALUMINUM SHEET, LAPPED AND SEALED WEATHERPROOF WITH BAND CLAMPS ON 24" CENTERS.
3. INTERIOR SUPPLY AND RETURN DUCTS FOR THE SPACE SHALL BE RIGID, FIBERGLASS DUCT-BOARD, 2" THICK, FLEXIBLE DUCTS SHALL BE R-6.5 CLASS 1, NOT EXCEED 10'. WHERE BRANCH DUCTS EXCEED 10' IN LENGTH PROVIDE ROUND SHEET-METAL DUCT EXTENSION INSULATED WITH 2" FIBERGLASS DUCT WRAP PRIOR TO TRANSITION TO FLEXIBLE DUCT.
4. AIR CONDITIONING UNITS FOR THE SPACE SHALL BE BY CARRIER OR ENGINEER APPROVED EQUAL. PROVIDE ENGINEERED SUPPORTS FOR PAD MOUNTED UNITS AND WALL SUSPENDED DUCTING. PROVIDE 1" THICK MEDIUM EFFICIENCY PLEATED FILTERS. PROVIDE NEW PROGRAMMABLE THERMOSTATS AT LOCATIONS IDENTIFIED ON PLAN.
5. PROVIDE 1 YEAR WARRANTY ON LABOR AND MATERIAL BY CONTRACTOR, AND MANUFACTURER'S WARRANTY ON ANY NEW EQUIPMENT.
6. DUCT SMOKE DETECTORS SHALL BE PROVIDED, WIRED, AND INSTALLED BY MECHANICAL CONTRACTOR. PROVIDE AUDIBLE-VISUAL INDICATOR FOR DETECTORS, IN AN ALARM CONDITION DETECTORS SHALL SIGNAL THE AUDIBLE-VISUAL INDICATOR AND SHUT-DOWN ITS RESPECTIVE AIR SYSTEM.
7. ANY FIELD CHANGES AS A RESULT OF VALUE ENGINEERING SHALL BE COMMUNICATED TO THE ARCHITECT AND ENGINEER OF RECORD PRIOR TO COMMENCEMENT OF VALUE ENGINEERING WORK. ENGINEERING PLAN REVISIONS REQUIRED BY BUILDING INSPECTORS TO MATCH VALUE ENGINEERING CHANGES SHALL BE COMPENSATED TO THE ENGINEER AT A NEGOTIATED AMOUNT BY THE SUB-CONTRACTOR ENACTING THE VALUE ENGINEERING CHANGE.



CEILING DIFFUSER DETAIL

NOT TO SCALE

REVISION:

DRAWN:

PROPOSED BUILDING6 FOR:
DIY LETTERING
WINDSWEPT GLEN, LAKE CITY, FLORIDA 32024

Certificates
46 Years Service
1972 - 2018
N.P. Geisler, Architect
AR0007005

NICHOLAS PAUL GEISLER
ARCHITECT
N.C.A.R.B. Certified
1758 NW Brown Rd.
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386-292-4350

DATE:
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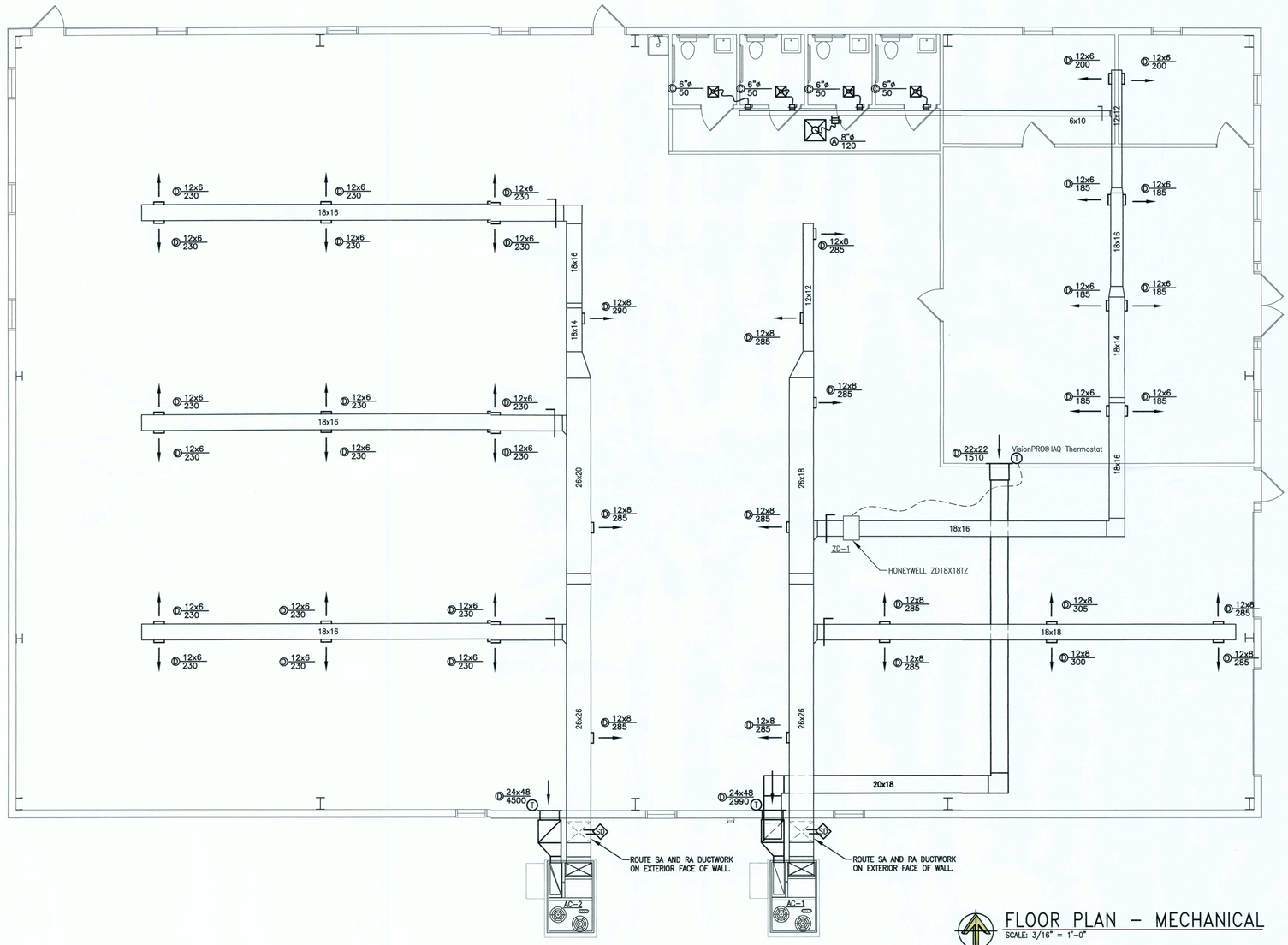
1 OF 2

19 Dec 2018
AR0007005



FLOOR PLAN – MECHANICAL

SCALE: 3/16" = 1'-0"

NORTH

REVISION:

DRAWN:

PROPOSED BUILDINGS FOR:

DIY LETTERING

WINDSWEPT GLEN, LAKE CITY, FLORIDA 32024

Celebrating 46 Years of Service
1972 2018
N.P. Geisler, Architect
AR0007005

NICHOLAS PAUL GEISLER ARCHITECT
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1758 NW Brown Rd.
Lake City, FL 32055
386-365-4355

DATE: 07 DEC 2018

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SHEET: M.1

2 OF 2

16 Dec 2018

AR0007005

PLUMBING FIXTURE SCHEDULE

FIXTURE	DESCRIPTION	MANUFACTURER	WASTE	CW	HW
WC-1	WATER CLOSET, ADA		4"	1"	–
	ELONGATED TOILET. VITREOUS CHINA, FLOOR MOUNTED, FLOOR OUTLET, TANK TYPE, PRESSURE ASSISTED 1.6 GPF. SEAT INSTALLED MIN. 18" FROM FINISH FLOOR TO TOP OF SEAT	KOHLER K-3493			
	SEAT: EXTRA HEAVY DUTY PLASTIC, OPEN FRONT SEAT LESS COVER WITH CONCEALED CHECK AND STAINLESS STEEL HINGE POST.	BEMIS CHURCH OLSONITE			
	FLUSH VALVE: ADA, BRASS CONSTRUCTION, 1.6 GPF	ZURN Z6000-WS1			
	ACCESSORIES: HEAVY DUTY WAX BOWL RING. WAX GASKET FOR SETTING ANY FLOOR TYPE WATER CLOSET BOWL.	OATEY 31190			
L-1	LAVATORY, ADA		1-1/4"	1/2"	1/2"
	WALL HUNG LAVATORY, VITREOUS CHINA, FAUCET HOLES ON 4" CENTERS.	KOHLER K-2032			
	FAUCET: 4" CENTERSET CAST BRASS FAUCET, SINGLE LEVER HOT AND COLD WATER MIXING	CHICAGO FAUCETS #420-ABCP			
	TEMPERED WATER: PROVIDE WATER TEMPERATURE LIMITING DEVIC (THERMOSTATIC MIXING VALVE) THAT CONFORMS TO ASSE 1070 PER FPC 416.5	WATTS MMV			
	STOPS/ACCESSORIES: 1/2" CHROME PLATED BRASS WHEEL HANDLE ANGLED STOP, CHROME PLATED STEEL FLANGE AND 12" FLEXIBIE CHROME PLATED COPPER LAVATORY RISERS. GRID DRAIN WITH OFFSET TAILPIECE AND CHROME PLATED P-TRAP	McGUIRE MANUFACTURING			
	MOUNT AT HANDICAPPED HEIGHT, PROVIDE BLOCKING IN WALL FOR MOUNTING OF LAVATORY	TRUEBRO MODEL#102G			
	SUPPLY LAV-GUARD INSULATION KIT.	TRUEBRO #102G			
MS	MOP SINK		3"	1/2"	1/2"
	ONE PIECE MOLDED FIBERGLASS, 24" x 24" x 8" HIGH WALL. 3" DRAIN PIPE. REMOVABLE STAINLESS STEEL STRAINER	MUSTEE 62M			
	FAUCET: CHROME PLATED WALL MOUNTED FAUCET WITH VACUUM BREAKER, INTEGRAL STOPS PAIL HOOK AND 3/4" HOSE THRED ON SPOUT.	MUSTEE 63.600A			
	ACCESSORIES: PROVIDE MOP HANGER AND WALL GUARD ACCESSORIES	MUSTEE 65.600, 67.2424			

PLUMBING MATERIAL SPECIFICATIONS

SANITARY AND VENT PIPING:
TUBE: PVC SCHEDULE 40 DWV, ASTM D 1785, FOAM CORE NOT ACCEPTED
FITTINGS: PVC PLASTIC FITTINGS, SCHEDULE 40, ASTM D 2466. FOAM CORE NOT ACCEPTED
JOINTS: SOLVENT CEMENTS FOR PVC PIPE AND FITTINGS, ASTM D 2564. FOAM CORE NOT ACCEPTED
PROVIDE FIRE WRAP FOR PVC PIPE IN PLENUM CEILING AREAS, 3M FIRE BARRIER PLENUM WRAP 5A OR EQUAL

DOMESTIC WATER PIPING:
TUBE: CPVC, CTS PIPE, PLASTIC HOT AND COLD WATER DISTRIBUTION SYSTEMS, ASTM D2846
FITTINGS: CPVC PLASTIC FITTINGS, ASTM F438.
JOINTS: SOLVENT CEMENTS FOR CPVC PIPE AND FITTINGS, ASTM F493

VALVES
ALL VALVES FOR DOMESTIC HOT AND COLD WATER DRISTRIBUTION SYSTEM SHALL BE CONFORM TO REQUIREMENTS OF ASTM D 2846. OPERATING PRESSURE SHALL NOT EXCEED 80% OF THE VALVE PRESSURE CLASS.

INSULATION
PROVIDE 1" ELASTOMERIC INSULATION FOR ABOVE-GRADE DOMESTIC HOT WATER PIPING AND COLD WATER PIPING IF LOCATED IN VENTED ATTIC SPACE.

SUPPORTS
PROVIDE PIPING HANGERS AND SUPPORTS SIZED AND SPACED PER CURRENT FBC 2017 AND PROVIDE 6" SADDLES UNDER ALL INSULATED PIPING.

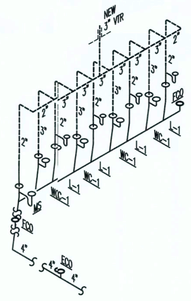
SHOCK ARRESTORS
PROVIDE SHOCK ARRESTORS PER CODE SIZED TO PDI STANDARDS. AIR CHAMBERS ARE NOT ACCEPTABLE.

PLUMBING GENERAL NOTES

1. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE 2017 FLORIDA BUILDING CODE – PLUMBING, NFPA 70, NFPA 101, AND THE AMERICAN DISABILITIES ACT (ADA).
2. PLANS ARE NOT COMPLETELY TO SCALE. PIPE ROUTING SHOWN IS SCHEMATIC AND IS NOT INTENDED TO INDICATE EXACT ROUTING AND ANY ADDITIONAL OFFSETS AND FITTINGS REQUIRED FOR PROPER INSTALLATION AND TO MAINTAIN CLEARANCES. VERIFY STRUCTURAL, MECHANICAL, AND ELECTRICAL INSTALLATIONS AND OTHER POTENTIAL OBSTRUCTIONS; AND ROUTE PIPING TO AVOID INTERFERENCES.
3. SLEEVE AND FIRE STOP PENETRATIONS OF RATED WALLS, FLOORS, CEILINGS AND ROOFS. FLASH AND COUNTERFLASH ROOF PENETRATIONS.
4. PROVIDE SIX SETS (GC DETERMINE EXACT QUANTITY) OF SHOP DRAWINGS OF PLUMBING FIXTURES, PIPING MATERIALS/FITTINGS, INSULATION, VALVES, AND EQUIPMENT FOR REVIEW BY ENGINEER OF RECORD. SHOP DRAWINGS SHALL BE ASSEMBLED BY THE CONTRACTOR IN A BOUND BOOKLET AND BE COMPLETE INCLUDING ALL ITEMS REQUIRED IN THE PLUMBING CONTRACT. IN-COMPLETE BOOKLETS PUT TOGETHER BY A FIXTURE MANUFACTURER WILL BE REJECTED AND RETURNED.
5. PLUMBING SERVICE ROUTING IS BASED ON SITE LIMITED SITE VISIBILITY, AS NO AS-BUILT DRAWINGS EXIST FOR THE FACILITY. PLUMBING CONTRACTOR TO DETERMINE SITE SPECIFIC SERVICE ROUTING AND SERVICE FLOW PRIOR TO TIE-IN AND NEW SERVICE LAYOUT.

ELECTRIC WATER HEATER SCHEDULE

TAG	SERVICE	MANUFACTURER AND MODEL NO.	TYPE	GALLONS	RECOVERY	POWER	ELEMENTS/WATTS	AMPS	NOTES
EWH-1	RECIRCULATION STORAGE	RHEEM PROE40M2 RH95	ELECTRIC	40	55 GPH	208 V 1 PH	2/4500	–	3/4" NPT INLET & OUTLET



RISER DIAGRAM – SANITARY WASTE AND VENT
SCALE: NO SCALE

PLUMBING LEGEND

ABBREVIATIONS & SYMBOLS:

	WALL CLEAN OUT
	FLOOR CLEAN OUT
A/C	ABOVE CEILING
AP	ACCESS PANEL
B/G	BELOW GROUND
B/F	BELOW FLOOR
BFP	BACK FLOW PREVENTER
EX.	EXISTING
HD	HUB DRAIN
VTR	VENT THROUGH ROOF
TP	TRAP PRIMER
WH	WATER HEATER
FW	FILTERED WATER
COOG	CLEANOUT ON GRADE
WCO	WALL CLEANOUT
FCO	FLOOR CLEANOUT
	POINT OF CONNECTION – NEW WORK TO EXISTING

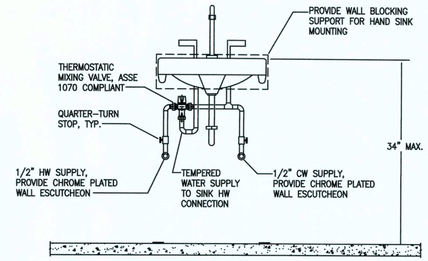
PLUMBING FIXTURES:

FD	FLOOR DRAIN
WH	WALL HYDRANT
HB	HOSE BIBB
L	LAVATORY
MS	MOP SINK
S	SINK
SA-A	SHOCK ARRESTOR – P.P.I SIZE
SS	SERVICE SINK
TMV	THERMOSTATIC MIXING VALVE
UR	URINAL
WC	WATER CLOSET
WB	WASHER BOX
TMV	THERMOSTATIC MIXING VALVE
GI	GREASE INTERCEPTOR

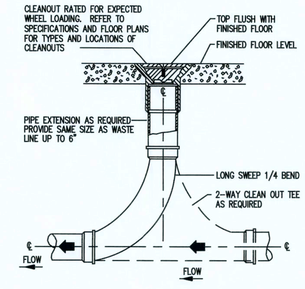
PIPING & VALVES:

	EXISTING SANITARY (S)
	NEW SANITARY (S)
	EXISTING COLD WATER (CW)
	NEW COLD WATER (CW)
110°	HOT WATER (110°F)
	NEW VENT (V)

	BALL VALVE
	BUTTERFLY VALVE
	GATE VALVE
	GLOBE VALVE
	STRAINER
	PIPE UNION
	CHECK VALVE
	ASME PRESSURE/TEMPERATURE RELIEF VALVE
	TEMPERED WATER MIXING VALVE
	PIPE UP
	PIPE DOWN
	SHOCK ARRESTOR



TMW INSTALLATION DETAIL
NOT TO SCALE



INTERIOR CLEANOUT DETAIL
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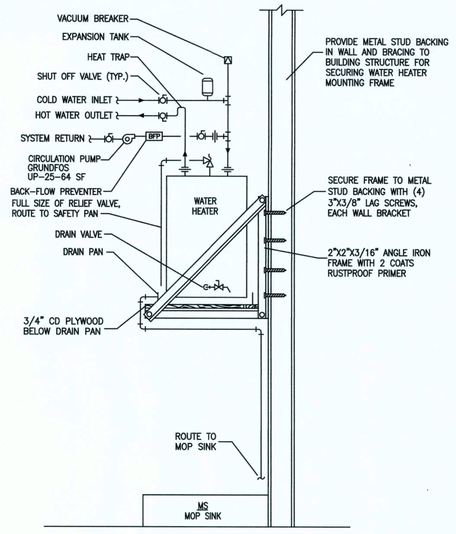

WATER HEATER (EWH-1) DETAIL
NOT TO SCALE

REVISION:

DRAWN:

PROPOSED BUILDINGS FOR:
DIY LETTERING
WINDSWEPT GLEN, LAKE CITY, FLORIDA 32024

Celebrating 46 Years of Service
1972 - 2018
N.P. Geisler, Architect
AR0007005

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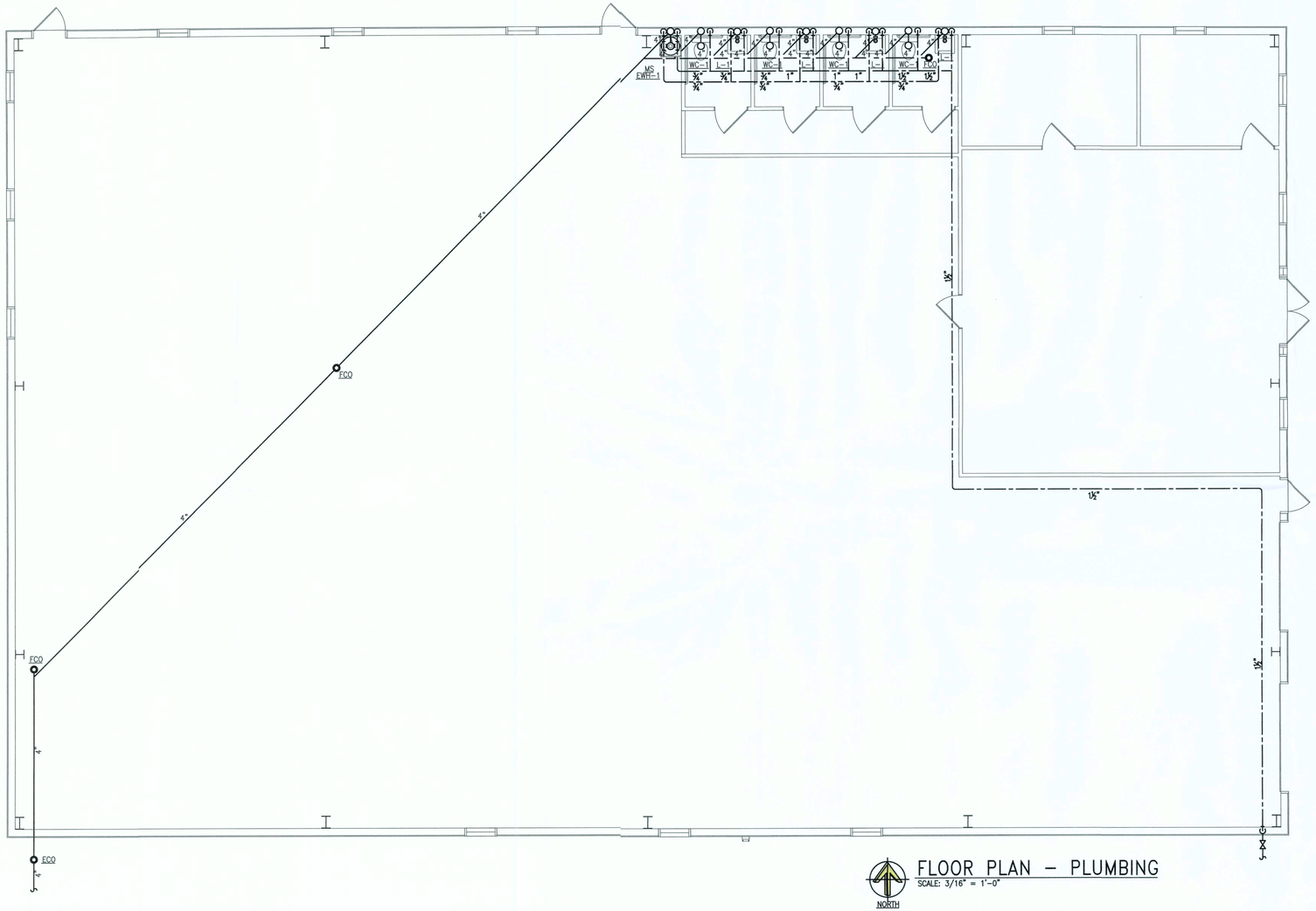

NORTH

FLOOR PLAN – PLUMBING

SCALE: 3/16" = 1'-0"

REVISION:

DRAWN:

PROPOSED BUILDINGS FOR:

DIY LETTERING

WINDSWEPT GLEN, LAKE CITY, FLORIDA 32024

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N.P. Geisler, Architect
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NICHOLAS PAUL GEISLER ARCHITECT
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2K1892

SHEET:
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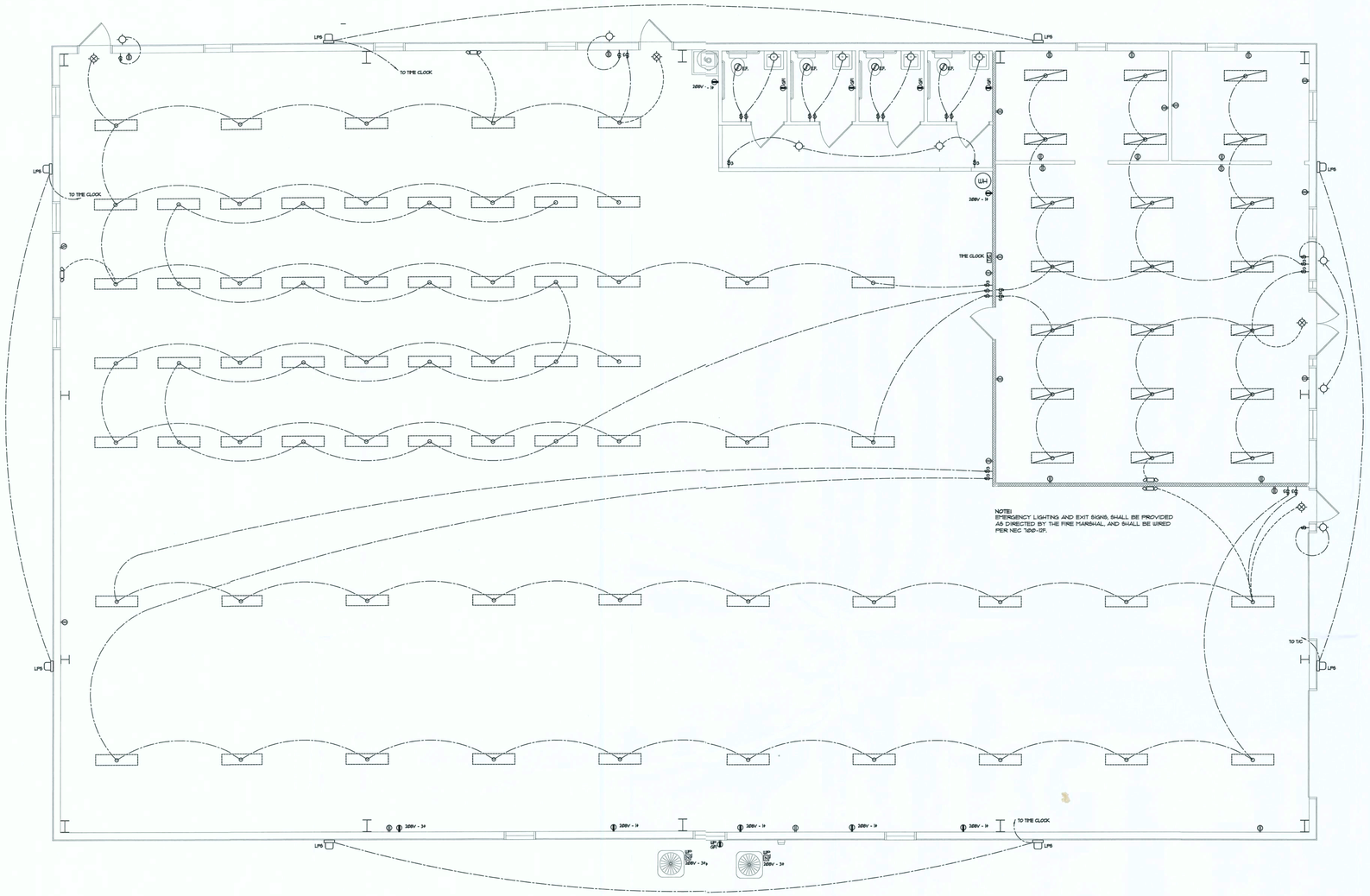
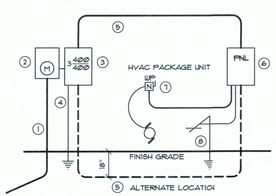
18 DEC 2018

AR0007005



Electrical PLAN

SCALE: 3/16" = 1'-0"



NOTE!
THE MINIMUM AIC RATING FOR PANEL BOARDS, BRKRS AND DISCONNECT SWITCHES SHALL BE 2,000 AIC.

1. Service/Feeder Entrance Conductors: 2½" rigid conduit, min. 18" deep, w/ continuous Ground Bonding Conductor. Service Entrance Conductors shall not be spliced except that bolted connections at the Meter, Disconnecting Devices and Panel shall be allowed.
2. Meter Enclosure, weatherproof, UL. Listed.
3. Main Disconnect Switch: fused or Main BRKR, weatherproof, UL. Listed.
4. Service entrance Ground: ¾" x iron/steel rod x 8'-0" long and/or concrete encased foundation steel rebar x 20'-0" long. Grounding Conductor shall be bonded to each piece of Service/Entrance Equipment, and shall be sized per Item 5, below.
5. 400 AMPERE SERVICE. 6-#3/0-USE-Cu, 2 # 1/0 USE-Cu-NEUT, 1-#1/0-Cu-GND, 3" Conduit.
6. House Panel (FNL), UL. Lised, sized per schedule.
7. Equipment Disconnect Switch: non-fused, in weatherproof enclosure, size according to Panel Schedule loads.
8. Provide Ground Bond Wire to metal piping, size in accordance with the Service Ground Conductor.

ELECTRICAL RISER DIAGRAM: 400A

SCALE: NONE

FNL "A": 200A - MB - 120/208V - 3Φ - 5W
10K AIC. - FLUSH - 42 SLOT

CIR Nr.	LOCATION	TRIP/ POLES	WIRE SIZE	LOAD	#A KW	#B KW	#C KW	LOAD	WIRE SIZE	TRIP/ POLES	LOCATION	CIR. Nr.
1	OFFICE/SHOWRM LTG	20A/1P	12THW	1.01	1.16			Ø.50	12THW	20A/1P	OFFICE RECEPT.	2
3	RESTRT LTG	"	"	Ø.18		1.04		Ø.360	"	"	OFFICE RECEPT.	4
5	SPARE	-	-	Ø.54			1.98	1.44	"	"	SHOWRM. RECEPT.	6
7	WEEDING LTG "A"	20A/1P	12THW	1.38	2.23			Ø.360	"	"	WEEDING GP. REC.	8
9	WEEDING LTG "B"	"	"	Ø.77		1.61		Ø.360	"	"	PRODUCTION GP. REC.	10
11	SPARE	-	-	Ø.54			Ø.72	Ø.18	"	"	O/S RECEPT.	12
13	PRODUCTION LTG "A"	20A/1P	12THW	Ø.48	2.64			2.16	8THW	30A/2P	208V 1Φ OUTLET	14
15	PRODUCTION LTG "B"	"	"	Ø.48		2.64		2.16	"		W CIR. NR. 14	16
17	SPARE	-	-	Ø.54			1.749	2.16	"	30A/2P	208V 1Φ OUTLET	18
19	SECURITY LTG	20A/1P	12THW	Ø.72	2.88			2.16	"	-	W CIR. NR. 18	20
21	O/S DOOR LTG	"	"	Ø.14		2.30		2.16	"	30A/2P	208V 1Φ OUTLET	22
23	EU#1	30A/2P	10THW	2.25			4.41	2.16	"	-	W CIR. NR. 22	24
25	W CIR. NR. 23	-	"	2.25	3.13			2.88	"	30A/3P	208V 3Φ OUTLET	26
27	SPARE	-	-	Ø.54		3.42		2.88	"	-	W CIR. NR. 26	28
29	"	-	-	Ø.54			3.42	2.88	"	-	W CIR. NR. 28	30
31	SPACE	-	-	Ø.Ø	4.15			4.15	"	30A/3P	HVAC PKG "A" - 12.5 T	32
33	"	-	-	Ø.Ø		4.15		4.15	"	-	W CIR. NR. 32	34
35	"	-	-	Ø.Ø			4.15	4.15	"	-	W CIR. NR. 32	36
37	"	-	-	Ø.Ø	4.15			4.15	"	30A/3P	HVAC PKG "B" - 12.5T	38
39	"	-	-	Ø.Ø		4.15		4.15	"	-	W CIR. NR. 38	40
41	"	-	-	Ø.Ø			4.15	4.15	"	-	W CIR. NR. 38	42
					23.15	19.39	20.44					

#A 23.15 KW / 120 V = 192.91 AMPERES
#B 19.39 KW / 120 V = 161.58 AMPERES
#C 20.44 KW / 120 V = 170.33 AMPERES

FEEDER SIZE: 3 # 3/0 - THW - Cu, 1 # 1/0 - THW - Cu - Neut.
1 # 4 - Cu - GND, 2" C.

Electrical SYMBOLS

POWER

- DUPLEX WALL RECEPTACLE
- 240V OUTLET
- GND FAULT INTERRUPTER DUPLEX RECEPT.
- WEATHER PROOF GFI DUPLEX RECEPT.
- MOTOR (SP - SUBMERSIBLE PUMP)
- ELECTRICAL PANEL
- ELECTRICAL PANEL
- EXHAUST FAN
- SMOKE DETECTOR, 120V
- NON-FUSED DISC. SWITCH
- HVAC THERMOSTAT, @ 60" AFF

LIGHTING

- SPST WALL SWITCH
- DPDT WALL SWITCH (3-WAY)
- 48w LED PRISMATIC WRAP SUSPENDED FIXTURE
- 48w LED OPEN REFLECTOR SUSPENDED FIXTURE
- 27w LED LIGHT FIXTURE - WALL OR CEILING MOUNTED
- SWITCH/FIXTURE WIRING
- CONTROL WIRE / LOW VOLTAGE
- TIME CLOCK
- EXIT LIGHT W/ BAT. PACK, GREEN FONT
- DUAL HEAD EM. LIGHT W/ BAT. PACK
- LP6 - 90w LP6 WALL PAC SECURITY FIXTURE

ELECTRICAL NOTES: General

1. DO NOT SCALE THE ELECTRICAL DRAWINGS. REFER TO ARCHITECTURAL PLANS AND ELEVATIONS FOR EXACT LOCATION OF ALL EQUIPMENT. CONFIRM WITH OWNER.
2. INSTALL ALL ELECTRICAL WORK IN CONFORMANCE WITH THE NEC 1991 EDITION, AND IT'S AMENDMENTS AS ADOPTED BY THE PERMIT ISSUING AUTHORITY AT THE TIME OF CONSTRUCTION.
3. GROUNDING: GROUND ALL MAIN DISCONNECTS TO STANDARD GROUND ROD(S) AND TO COLD WATER SUPPLY AS PER ARTICLE 250 OF NEC-1994.
4. INSTALL ONLY COPPER WIRING ON THIS PROJECT: THW, TW, THIN, THHN OR NM CABLE, UNLESS NOTED OTHERWISE. ALL CONDUCTORS #10 & SMALLER MAY BE SOLID. ALL CONDUCTORS #8 AND LARGER SHALL BE STRANDED TYPE.
5. PROVIDE CONTINUITY OF NEUTRAL ON MULTI-BRANCH CIRCUITS BY SPLICING AND BRINGING OUT A TAP, ASSURING NO OPENINGS OF NEUTRAL IN REPLACEMENT OF A DEVICE.
6. COLOR CODE MULTI-CIRCUIT WIRING AS FOLLOWS: NEUTRAL - WHITE, GROUND - GREEN, LINE - ALL OTHER COLORS.
7. INSTALL ONLY HIGH POWER FACTOR BALLASTS AT FLUORESCENT FIXTURES.
8. INSTALL GFI BREAKERS OR DEVICES AT ALL BATHROOM, RESTROOM, KITCHEN, GARAGE AND EXTERIOR RECEPTACLES AND AS NOTED ON THE DRAWINGS.
9. INSTALL ONLY THOSE ELECTRICAL DEVICES THAT BEAR A "UL" OR OTHER RECOGNIZED TESTING LAB LABEL. ALL MATERIALS SHALL BE NEW.
10. INSTALL NON-FUSED DISCONNECT SWITCHES AT ALL PIECES OF ELECTRICAL EQUIPMENT LOCATED WHERE SAID EQUIPMENT IS NOT VISIBLE FROM THE CIRCUIT BREAKER THAT PROTECTS IT. SIZE IN ACCORD WITH THE LOAD. ALL DISCONNECT SWITCHES SHALL BE H.P. RATED, HEAVY DUTY, QUICK-MAKE - QUICK-BREAK TYPE - ENCLOSURES SHALL BE AS REQ'D FOR EXPOSURE.
11. MOTOR STARTERS SHALL BE MANUAL OR MAGNETIC WITH OVERLOAD RELAYS IN EACH HOT LEG.
12. ISOLATE DISSIMILAR CONDUIT AND TUBING METALS FROM SOIL, WATER AND GAS PIPING AND OTHER BUILDING MATERIALS WHERE DAMAGE BY FRICTION OR ELECTROLYSIS MAY OCCUR, EXCEPT WHERE ELECTRICAL GROUND IS PROVIDED.
13. FURNISH AND INSTALL ALL ELECTRICAL DEVICES AND ITEMS REQUIRED FOR A COMPLETE, OPERATING SYSTEM, PROVIDING THE FUNCTIONS AS DETAILED IN THE PLANS (AND SPECS).
14. OUTLET BOXES SHALL BE PRESSED STEEL OR PLASTIC OR ALL DRY LOCATIONS, FOR WET LOCATIONS, CAST ALLOY WITH THREADED HUB OUTLET BOXES SHALL BE INSTALLED.
15. HOT CHECK ALL SYSTEMS WITH THE OWNER'S REPRESENTATIVE PRESENT TO VERIFY PROPER FUNCTION PRIOR TO C.O.
16. COORDINATE ALL WORK THROUGH GC TO AVOID CONFLICTS. COORDINATE WITH HVAC CONTRACTOR AND ELECTRONICS SYSTEMS CONTRACTORS SO THAT A COMPLETE, FUNCTIONING SYSTEM IS INSTALLED, IN EACH CASE, WITH NO EXTRA COST TO THE OWNER.
17. EMERGENCY LIGHTING AND EXIT SIGNS, IF INDICATED ON THE PLANS, SHALL BE WIRED PER NEC 700-12F.
18. ALL PANEL SCHEDULES SHALL BE FULLY FILLED OUT AND SHALL BE TYPEWRITTEN. EA. CIRCUIT SHALL BE CLEARLY IDENTIFIED A TO WHAT IS INCLUDED ON SAID CIRCUIT.
19. IT IS NOT THE INTENT OF THESE DRAWINGS TO SHOW EVERY MINOR DETAIL OF THE CONSTRUCTION.
20. THE ELECTRICAL INSTALLATION SHALL MEET ALL STANDARD REQUIREMENTS OF THE POWER COMPANY & TELEPHONE COMPANY.
21. FURNISH AND INSTALL DISCONNECT SWITCHES AND WIRING FOR HVAC SYSTEM AS PER MANUFACTURER'S RECOMMENDATIONS. CONTROLS ARE TO BE SUPPLIED BY THE HVAC CONTRACTOR, AND CONNECTED BY THE ELECTRICAL CONTRACTOR.
22. ALL RACEWAYS BELOW GROUND SHALL BE A MINIMUM OD 3/4".
23. ALL CIRCUIT BREAKERS, TWO AND THREE POLE, SHALL BE COMMON TRIP; NO TIE HANDLES OR TANDEMS SHALL BE ACCEPTABLE.
24. ALL FUSES, UNLESS NOTED OTHERWISE ON THE DRAWINGS, SHALL BE CURRENT LIMITED TYPE (C.L.) RATED 200,000 AIC.
25. ELECTRICAL CONTRACTOR SHALL VERIFY ALL COMPONENTS FOR ALL ELECTRICAL APPLICATIONS & DETERMINE THE CORRECTNESS OF SAME. ANY DISCREPANCY SHALL BE REPORTED TO THE OWNER PRIOR TO FABRICATING ANY MATERIALS, ORDERING COMPONENTS OR DOING ANY WORK.
26. CIRCUITS ON PANEL SCHEDULE (AND PLANS) ARE TO DETERMINE LOAD DATA AND SIZE. THE CONTRACTOR SHALL PROVIDE CIRCUITS AND ROUTING OF CONDUITS AND WIRING TO SUIT JOB CONDITIONS, AND BALANCE THE JOB, THROUGHOUT.
27. CHECK EQUIPMENT FOR PROPER VOLTAGE, PHASE AND AMPERAGE RATING PRIOR TO CONNECTION TO CIRCUITS.
28. PANEL BOARDS SHALL BE CIRCUIT BREAKER TYPE. VERIFY NUMBER AND SIZES OF CIRCUITS.
29. WHEN CONDUIT RUNS EXCEED 200 FEET, PULL BOXES SHALL BE INSTALLED SO THAT NO PULL EXCEEDS THIS DISTANCE.
30. ELECTRICAL EQUIPMENT AIC RATING AND FEEDER SIZE SHOWN ON THE PLANS ARE DESIGNED FOR MAX. AVAILABLE FAULT CURRENT AND MAX. ALLOWABLE VOLTAGE DROP, RESPECTIVELY.

ELECTRICAL PLAN NOTES

INSTALLATION SHALL BE PER 2011 NATL. ELECTRIC CODE.

WIRE ALL APPLIANCES, HVAC UNITS AND OTHER EQUIPMENT PER MANUF. SPECIFICATIONS.

CONSULT THE OWNER FOR THE NUMBER OF SEPERATE TELEPHONE LINES TO BE INSTALLED.

ALL SMOKE DETECTORS SHALL BE 120V W/ BATTERY BACKUP OF THE PHOTOELECTRIC TYPE, AND SHALL BE INTERLOCKED TOGETHER.

TELEPHONE, TELEVISION AND OTHER LOW VOLTAGE DEVICES OR OUTLETS SHALL BE AS PER THE OWNER'S DIRECTIONS, # IN ACCORDANCE W/ APPLICABLE SECTIONS OF NEC-2011 EDITION.

ALL RECEPTICALS, NOT OTHERWISE DESIGNATED, SHALL BE ARC FAULT INTERRUPTER TYPE, EXCEPT DEDICATED OUTLETS.

ALL RECEPTICALS IN RESTROOMS SHALL BE GROUND FAULT INTERRUPTER TYPE (GFI).

ALL EXTERIOR RECEPTICALS SHALL BE WEATHERPROOF GROUND FAULT INTERRUPTER TYPE (WP/GFI).

ELECTRICAL CONTR SHALL PREPARE "AS-BUILT" SHOP DWGS INDICATING ALL ELECTRICAL WORK, INCLUDING ANY CHANGES TO THE ELEC. PLAN, ADDNS TO THE ELEC. PLAN, RISER DIAGRAM, AS-BUILT PANEL SCHEDULE W/ ALL CKTS IDENTIFIED W/ CKT Nr, DESCRIPTION & BRKR, SERVICE ENT. & ALL UNDERGROUND WIRE LOCATIONS/ROUTING/DEPTH, RISER DIA. SHALL INCLUDE WIRE SIZES/TYPE & EQUIPMENT TYPE W/ RATINGS & LOADS.
CONTRACTOR SHALL PROVIDE 1 COPY OF AS-BUILT DWGS TO OWNER & 1 COPY TO THE PERMIT ISSUING AUTHORITY.

REVISION:

DRAWN: mpg

PROPOSED BUILDINGS FOR:
DIY LETTERING
WINDSWEPT GLEN, LAKE CITY, FLORIDA 32024

Celebrating 46 Years of Service
1972 - 2018
N.P. Geisler, Architect
AR0007005

NICHOLAS PAUL GEISLER ARCHITECT
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COMM: 2K1892
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