

Office of the Vice President and Chief Financial Officer

Procurement Services https://procurement.ufl.edu/

971 Elmore Drive PO Box 115250 Gainesville, FL 32611-5250 (352) 392-1331 Fax 352-392-8837

March 19, 2020

ADDENDUM NUMBER 3 ON INVITATION TO BID ITB20KO-136

TITLE: IFAS Demonstration Pavilion - Live Oak, FL

Mandatory pre-bid meeting was held March 17, 2020 at 10:00AM at the site. Bid opening is scheduled for April 9, 2020 at 3:00PM.

This addendum shall be considered part of the Contract Documents for the above-mentioned project as though it had been issued at the same time and incorporated integrally therewith. Where provisions of the following supplementary data differ from those of the original Contract documents, this addendum shall govern and take precedence. Bidders are hereby notified that they shall acknowledge receipt of the addendum.

This addendum consists of:

- Attached 13 pages of revised drawings dated 3/12/2020. These pages replace pages 295-306 of Revised Attachment A issued with Addendum #2.
- Reminder: Contractor questions and requests for clarification are due no later than 3/23/2020 at 5:00PM. Email questions and requests for clarification to <a href="kolitication-left:kolitica

Karen Olitsky Procurement Agent III

PLEASE ACKNOWLEDGE RECEIPT OF THIS ADDENDUM 3 AND RETURN WITH YOUR BID. FAILURE TO ACKNOWLEDGE THIS ADDENDUM COULD CONSTITUTE REJECTION OF YOUR BID.

VENDOR NAME		
VENDOR ADDRESS		
SIGNATURE		

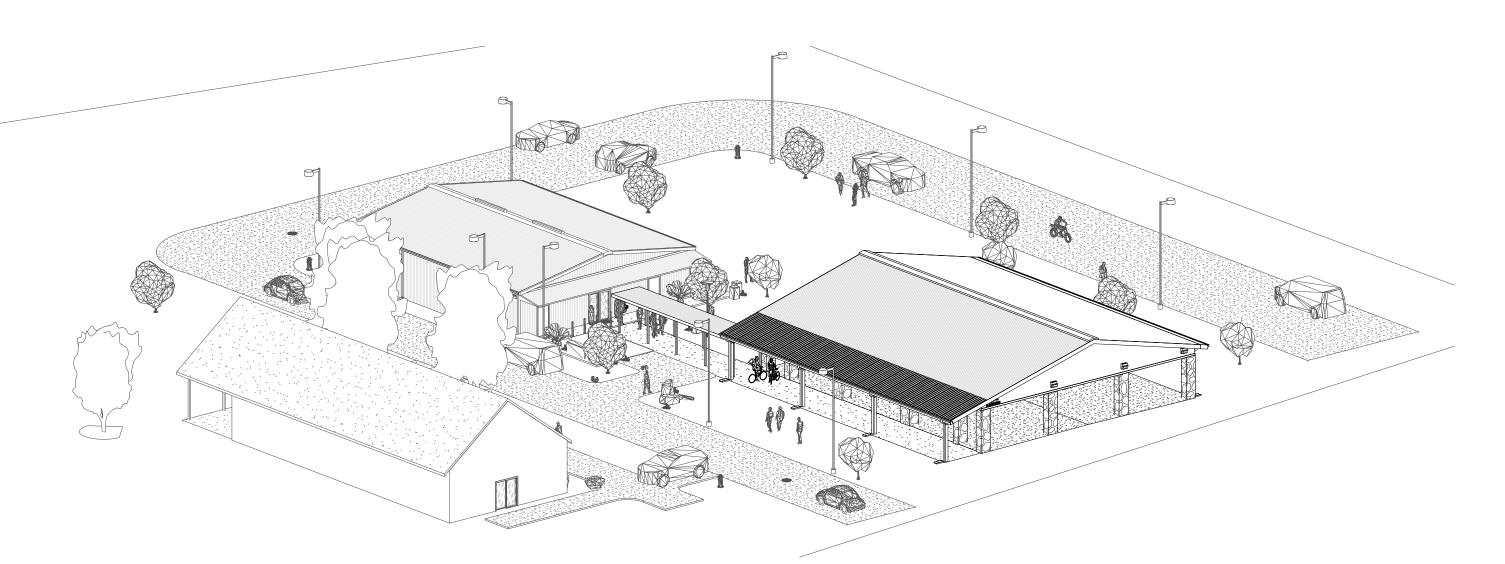
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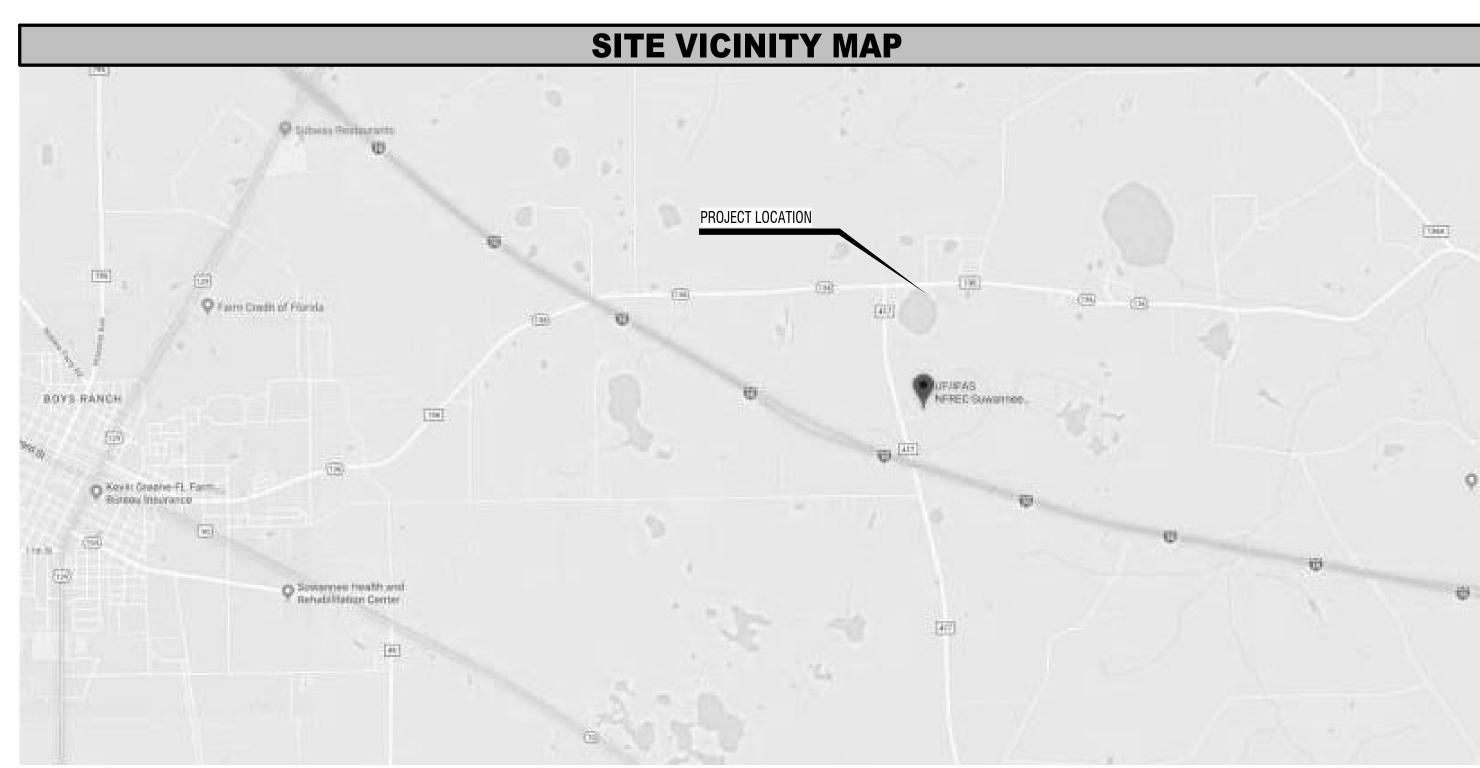
UF/IFAS 20038 NORTH FLORIDA REC - LIVE OAK AGRICULTURE DEMONSTRATION BUILDING

UF PLANNING, DESIGN & CONSTRUCTION LIVE OAK, FL

UF BLDG #8325

3D PLAN





PROJECT INFORMATION

PROJECT NAME: UF/IFAS 20038 NORTH FLORIDA REC - LIVE OAK AGRICULTURE DEMONSTRATION BUILDING

PROJECT/ SITE ADDRESS

LIVE OAK, FL

OCCUPANCY TYPE - FBC: ASSEMBLY - GROUP A-3 OCCUPANCY TYPE - NFPA: ASSEMBLY NUMBER OF STORIES: 1 ABOVE GRADE NUMBER OF BUILDINGS: 1 AUTHORITIES HAVING JURISDICTION: UF EH&S OCCUPANT LOAD: 292

PROJECT SCOPE

DEMONSTRATION PAVILION:

GROUP A-3 ASSEMBLY OCCUPANCY. THE EAVES WILL BE 12' HIGH WITH SIDE PANELS DOWN TO 10' ON ALL FOUR SIDES. THE GALVALUME FINISH ROOF WILL HAVE A 3:12 PITCH WITH A 2' OVERHANG ON ALL 3 SIDES, AND A 10' WIDE SHED ROOF ON THE NORTH SIDE. GUTTERS ON THE NORTH AND SOUTH SIDES WILL BE ROUTED TO AN UNDERGROUND DRAINAGE SYSTEM VIA DOWNSPOUTS ON ALL &

THE SLAB WILL BE 4" THICK, DESIGNED FOR PEDESTRIAN USE, WITH A SMOOTI TROWEL FINISH, AND BE SLOPED TO DRAIN. COLUMN BASES WILL BE ELEVATED RELATIVE TO THE SLAB. FOUNDATION DESIGN WILL BE BASED UPON BUILDING MANUFACTURER-PROVIDED REACTIONS.

THE SIDE WALLS WILL BE R-PANELS WITH A 20-YEAR PAINTED FINISH OF OYSTER GREY WITH DARK GREEN TRIM

THE BUILDING WILL HAVE A 10' WIDE COVERED CONCRETE WALK ON THE NORTH SIDE. THE WALK WILL CONNECT THE BUILDING TO THE PARKING

NEW ELECTRICAL SERVICE, WITH POWER AND JUNCTION BOXES AT EACH COLUMN FOR THE ROLL-DOWN CURTAINS, POWER FOR THE CEILING FAN AND LIGHTING.

COVERED WALKWAY: PRE-ENGINEERED ALUMINUM CANOPY WITH LIGHTING OVER THE CONCRETE WALK CONNECTING THE MAIN ASSEMBLY BUILDING WITH THE PAVILION.

PLUMBING AND ELECTRICAL FOR AN ACCESSIBLE, HI-LOW WATER FOUNTAIN ON THE WEST EXTERIOR FACE OF THE MAIN ASSEMBLY BUILDING SITE WORK FOR ACCESSIBLE ROUTE TO ADJACENT RESTROOMS AND TO PARKING, PAVING AND DRAINAGE

#1: IN LIEU OF STANDARD METAL BUILDING COLUMNS, PROVIDE RECTANGULAR OR SQUARE COLUMNS ALONG THE NORTH SIDE OF THE COVERED WALK. #2: IN LIEU OF BARE GALVANIZED COLUMNS, WRAP THE BUILDING COLUMNS WITH FRAME AND STONE VENEER.

#3: IN LIEU OF OPEN BAYS, PROVIDE ROLL-DOWN, CLEAR WEATHER CURTAINS EQUIVALENT TO FENETEX

PLUMBING FIXTUERS:

S1 FOUNDATION PLAN

ACCESSIBLE RESTROOM FIXTURES ARE ON SITE IN THE ADJACENT BUILDINGS 8239 & 8312. DURING DEMONSTRATION EVENTS, THEOCCUPANTS OF THESE BUILFING WILL BE AT THE DEMOSTRATION BUILDING.

ADDITIONAL ACCESSIBLE RESTROOMS WILL BE BROUGHT ON SITE FOR THE LARGER EVENTS THAT MAY OCCUR.

SHEET #	CIVIL PLANS SEE TOC ON C.OOO	Current	Current
SHEET #	CIVIL FLANS SEE TOC ON C.OOO	Revision	Date
TITLE			
TO.0	COVER SHEET		
LIFE SAF	ETY		
LS1.0	PROPOSED - LIFE SAFETY - OVERALL		
ARCHITEC	TURAL PLANS		
A1.0	PROPOSED - PLAN - OVERALL		
A1.2	PROPOSED - ROOF PLAN		
ARCHITEC	TURAL EXTERIOR ELEVATIONS		
A2.0	PROPOSED - ELEVATIONS - EXTERIOR		
A2.1	PROPOSED - ELEVATIONS - EXTERIOR		
ARCHITEC	TURAL BUILDING SECTIONS		
A4.0	PROPOSED - SECTIONS - BUILDING		
ARCHITEC	TUAL DETAILS		
A7.0	PROPOSED - DETAILS		
PLUMBING	9		
PO.1	PLUMBING LEGEND, NOTES & ABBREVIATIONS		
P1.1	PLUMBING FLOOR PLAN		
ELECTRIC	AL		
EO.1	ELECTRICAL LEGEND, CODES & ABBREVIATIONS		
E1.1	ELECTRICAL FLOOR PLAN - POWER		
E1.2	ELECTRICAL CEILING PLAN - LIGHTING		

CONSULTANTS

MEP ENGINEERS

MITCHELL GULLEDGE ENGINEERS CRAIG GULLEDGE 352-745-3991

CGULLEDGE (CGULLEDGE@MITCHELLGULLEDGE.COM)

210 SW 4th Avenue Gainesville, FL 32601

STRUCTURAL ENGINEER

WAYLAND STRUCTURAL ENGINEER (WSE) GREG WAYLAND 352-331-0727

WAYLANDGS@AOL.COM

2801 SW 81ST STREET GAINESVILLE, FL 32608

<u>CIVIL</u> <u>ENGINEER</u>

GMUER ENGINERRING (352)-281-4928

GMUERENG.COM

GENERAL NOTES

1. DRAWINGS ARE DIAGRAMATIC TO CONVEY EXISTING/NEW CONDITIONS CONTRACTOR SHALL INSPECT AND VERIFY THE SCOPE OF WORK. ANY

2. CONTRACTOR SHALL CHECK AND VERIFY ALL DIMENSIONS AND NOTIF' ARCHITECT IMMEDIATELY OF ANY DISCREPANCIES

3. NO INSTRUCTION, REVISIONS, ADDITIONS, DELETIONS, SPECIFICATIONS OR DOCUMENTS AND COMPLY WITH ALL PROVISIONS THEREIN. IF THERE IS A DESCREPANCY BETWEEN CONTRACT DOCUMENTS, EXISTING CONDITIONS AND VENDOR SUPPLIED WATER TREATMENT DOCUMENTS. GC TO VERIFY AND COORDINATE PRIOR TO INSTALLATION OF ANY SLEAVING.

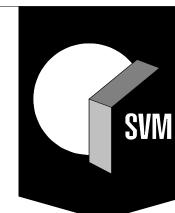
5. ALL MATERIALS SHALL BE INSTALLED IN ACCORDANCE W/ MANUFACTURER'S INSTRUCTIONS. IT IS GENERAL CONTRACTOR'S RESPONSIBILITY TO VERIFY AND APPROVE ALL DIMENSIONS OF EQUIPMENT AND MATERIAL WITH SUPPLIERS PRIOR TO ORDERING AND / OR INSTALLATION OF ALL PRODUCTS. 6. RFI'S - SUBMIT ALL QUESTIONS ON RFI DOCUMENT PROVIDED IN BID DOCUMENTS WITH DATE OF REQUEST. ARCHITECT WILL PROVIDE RESPONSE AS

QUICKLY AS PRACTICAL. 7. UPON GENERAL CONTRACTOR APPROVAL, ALL SUBMITTALS ARE TO BE SENT FROM THE SUBCONTRACTOR TO THE GENERAL CONTRACTOR FOR REVIEW AND SUBMISSION TO THE ARCHITECT; THE SUBCONTRACTOR IS TO FLAG ANY SUBSTITUTIONS. THE FULL SUBMITTAL PACKAGE IS TO BE SENT ELECTRONICALLY IN PDF FORMAT ON EITHER CD, FTP WEBSITE FOR DOWNLOAD, OR DROP BOX TO THE ARCHITECT WITHIN TWO WEEKS OF AWARD. ALL SUBMITTALS ARE TO BE REVIEWED BY GC PRIOR TO SUBMISSION TO THE ARCHITECT. ALL NON-REVIEWED SUBMITTALS WILL BE REJECTED. THE ARCHITECT WILL SUBMIT TO THE PROJECT MANAGER COPIES OF ALL REJECTED SUBMITTALS AND APPROVED SUBSTITUTIONS. ALL APPROVED SUBMITTALS AND CUT-SHEETS ARE TO BE MADE AVAILABLE PERMANENTLY ON THE JOB SITE FOR FUTURE REFERENCE DURING CONSTRUCTION MEETINGS. TIMELINESS OF SUBMITTALS IS OF EXTREME IMPORTANCE DUE TO PROJECT SCHEDULE. LATE SUBMITTALS WILL BE BACKCHARGED FROM THE SCHEDULE OF VALUES.ANY REVIEWS AFTER THIRD WEEK SHALL BE BORNE BY GENERAL CONTRACTOR @ A RATE OF \$200 PER SUBMITTAL.

8. PROJECT MAY INCLUDE MISCELLANIOUS STANDARD DETAILS. GC IS TO REVIEW ALL TO VERIFY ALL ARE APPLICABLE. SOME DETAILS MAY BE MIRRORED FOR THIS PROJECT COORDINATE W/ FLOOR PLAN.

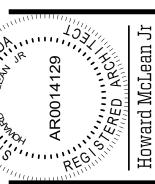
9. SEE PROJECT MANUAL SECTION 01100 FOR ALTERNATES (WHEN APPLICABLE). 10. SEE PROJECT MANUAL SECTION 01021 FOR ALLOWANCES (WHEN

11. SEE LS SERIES DRAWINGS FOR CODE DATA & LIFE SAFETY INFORMATION. 12. SEE SHEET AO.O.1 FOR ALL REQUIRED ADA & FIXTURE HEIGHTS. 13. IT IS THE RESPONSIBILITY OF THE GENERAL CONTRACTOR AND ALL SUBCONTRACTORS TO VISIT THE JOBSITE AND FAMILIARIZE THEMSELVES WITH ALL EXISTING CONDITIONS IN THE FIELD. ANY DISCREPANCIES BETWEEN EXISTING FIELD CONDITIONS AND THE CONSTRUCTION DOCUMENTS ARE TO BE BROUGHT TO ARCHITECT'S ATTENTION IMMEDIATELY PRIOR TO BIDS BEING DUE. OWNER WILL PROVIDE DIRECTION TO GENERAL CONTRACTOR FOR BIDDING PURPOSES TO ASSURE APPROPRIATE SCOPE IS INCLUDED WITHIN BID. 14. CONTRACTOR IS TO COORDINATE WITH TENANTS, LANDLORDS AND/OR SURROUNDING TENANTS/LANDOWNERS WHEN PERFORMING ANY WORK. THERE SHALL NOT BE ANY DISRUPTION OF SERVICES FOR THE SURROUNDING TENANTS/LANDOWNERS DURING THE CONSTRUCTION / RELOCATION AND/OR EXPANSION AND/OR RENOVATION OF THE FACILITY.



McLEAN, INC

VIGNOLA SKINNER



DATE: **03/12/2020**



COVER SHEET

* ALL SYMBOLS SHOWN MAY NOT BE ON PLAN

FIRE ALARM, EXTINGUISHERS, EXITS

1. FOR EXIT SIGNS AND EMERGENCY LIGHTS, SEE ELECTRICAL PLAN

used.

GENERAL NOTES - LIFE SAFETY - OVERALL

Egress from building will be possible from all sides when the weather curtains are not lowered. The two Exits shown on the north side will remain open for accessible egress at all times. See Electrical for emergency and exit lighting Use of building will include demonstrations of agricultural equipment and techniques, with exhibition booths similar to those in trade fairs. Table and chair arrangements may also be

OCCUPANT LOAD BREAKDOWN

292 (1 PERSON / 15 SF) A - ASSEMBLY = (1 PERSON / 100 SF) B - BUSINESS = S - ACC/SUPPLY = (1 PERSON / 300 SF)

TOTAL OCCUPANCY LOAD = 292

LONGEST PATH TO EXIT:

LONGEST RUN = 69 FEET

T1017.2: EXIT ACCESS TRAVEL DISTANCE - 200' W/O SPRINKLER SYSTEM (MOST RESTRICTIVE).

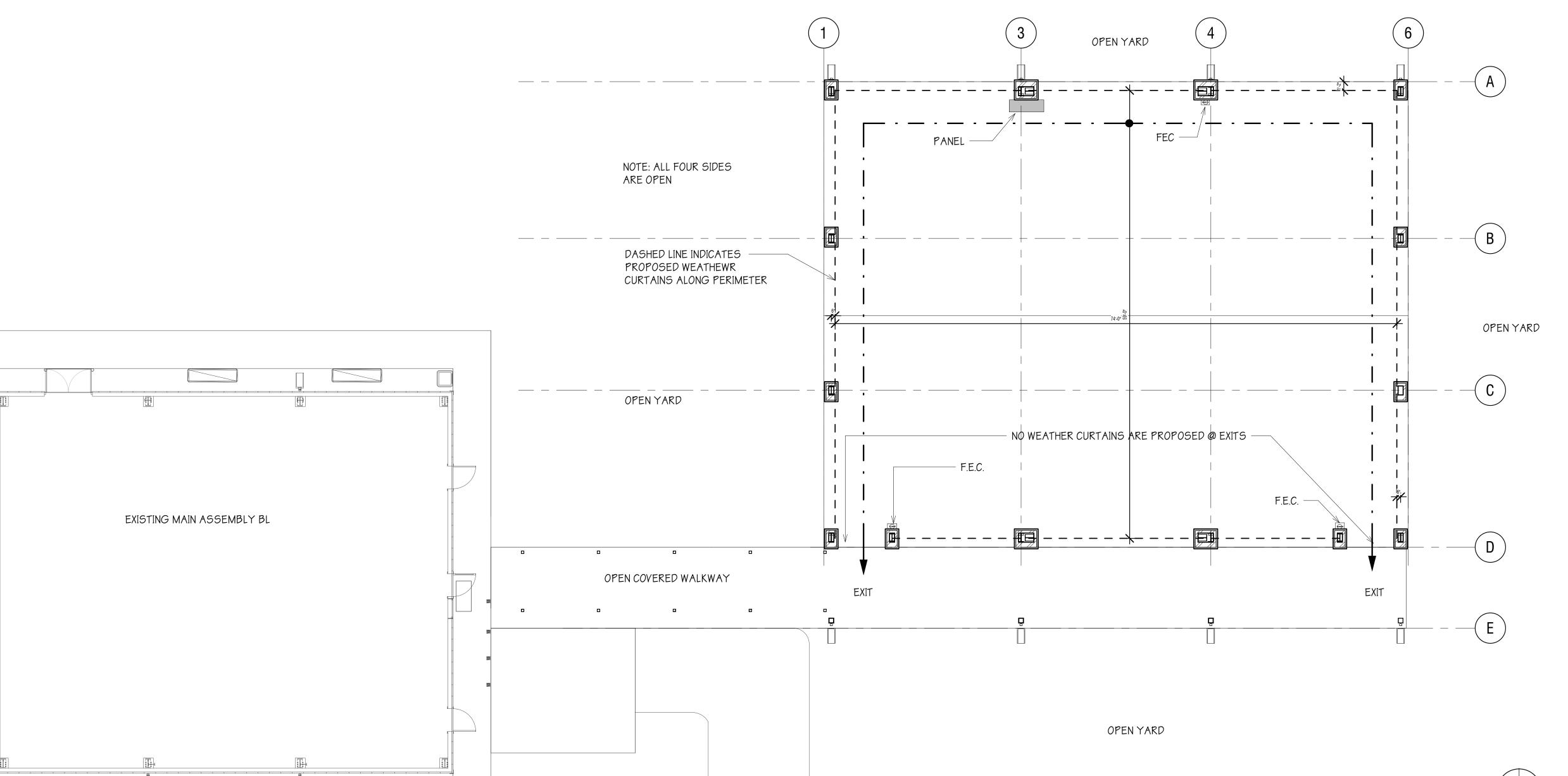
TOTAL AREA BREAKDOWN

INTERIOR WALLS = EXTERIOR WALLS = INTERIOR ROOMS = EXTERIOR ROOMS = BELOW ROOF ROOMS =

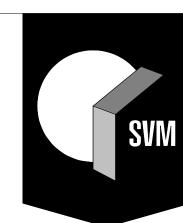
GFA (NFPA) =

AREA LEASABLE (BOMA) =

4,366 AREA BUILDING (IBC)=



PROPOSED - LIFESAFETY - OVERALL LS1.0 SCALE: 1/8" = 1'-0"



SKINNER VIGNOLA MCLEAN, INC.

ARCHITECTS & PLANNERS | FL CERTIFICATE | AA3478 **SVM**

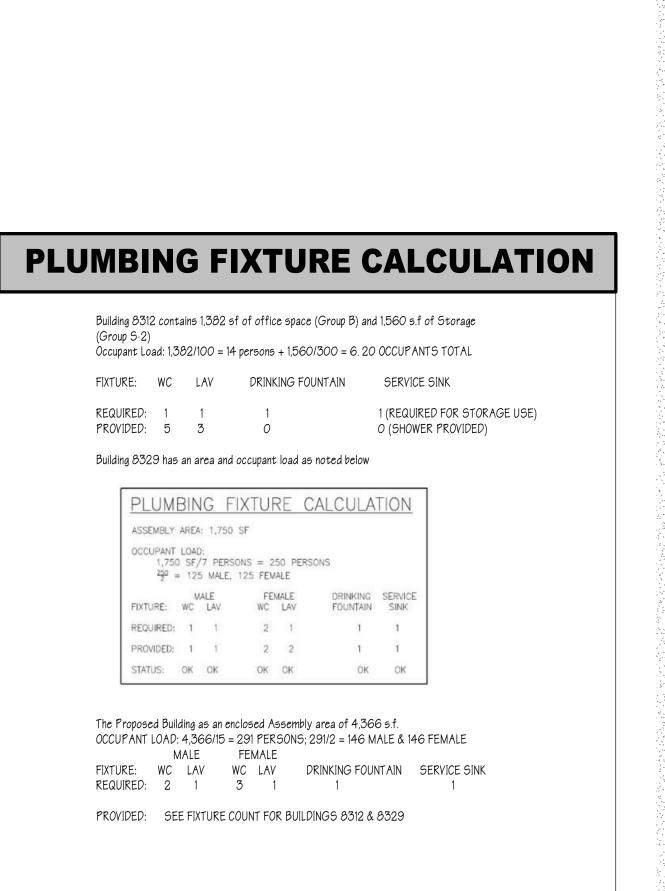


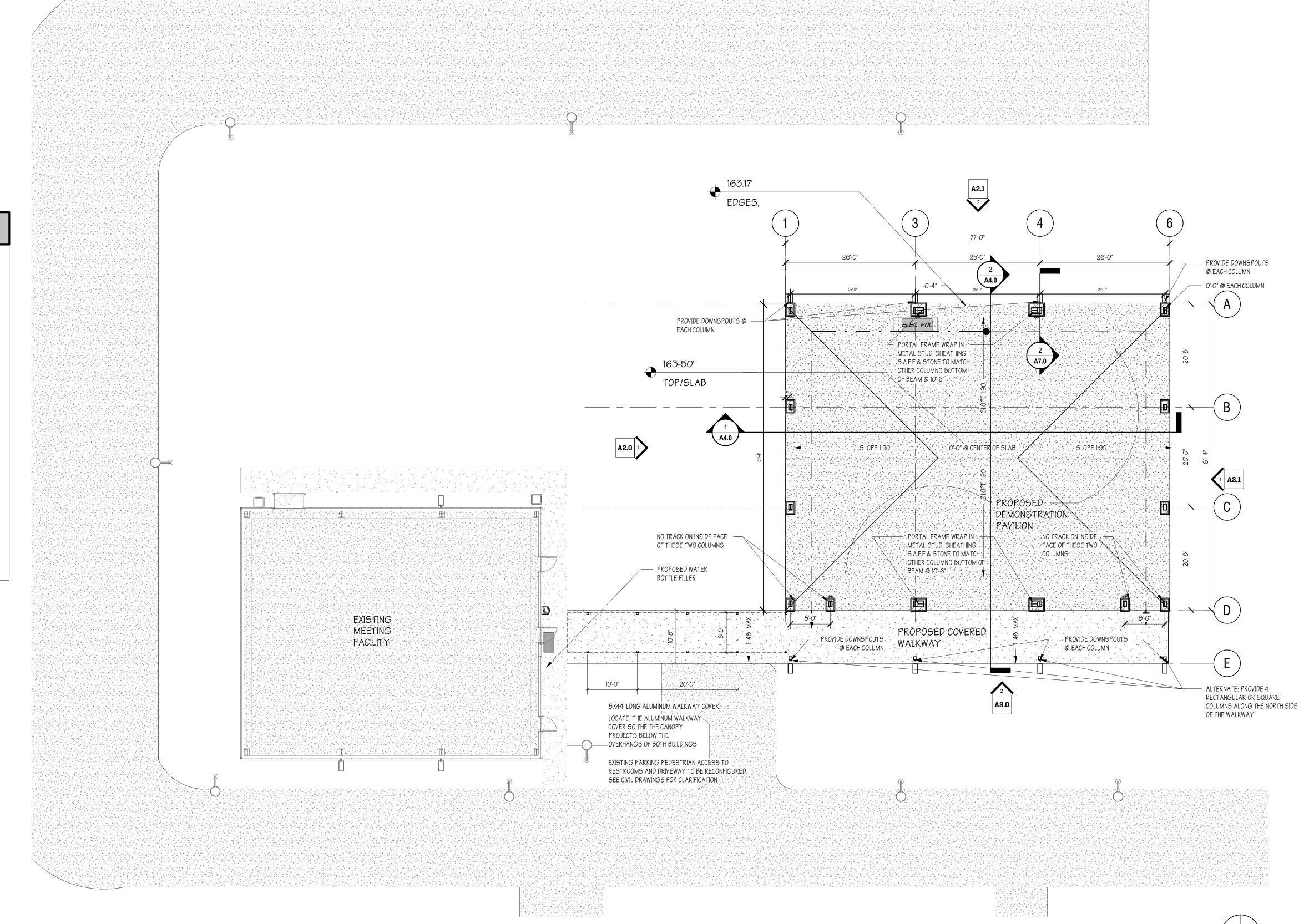
PLANNING, DESIGN CONSTRUCTION

DATE: **03/12/2020**

PROPOSED - LIFE SAFETY -

OVERALL 1460-30







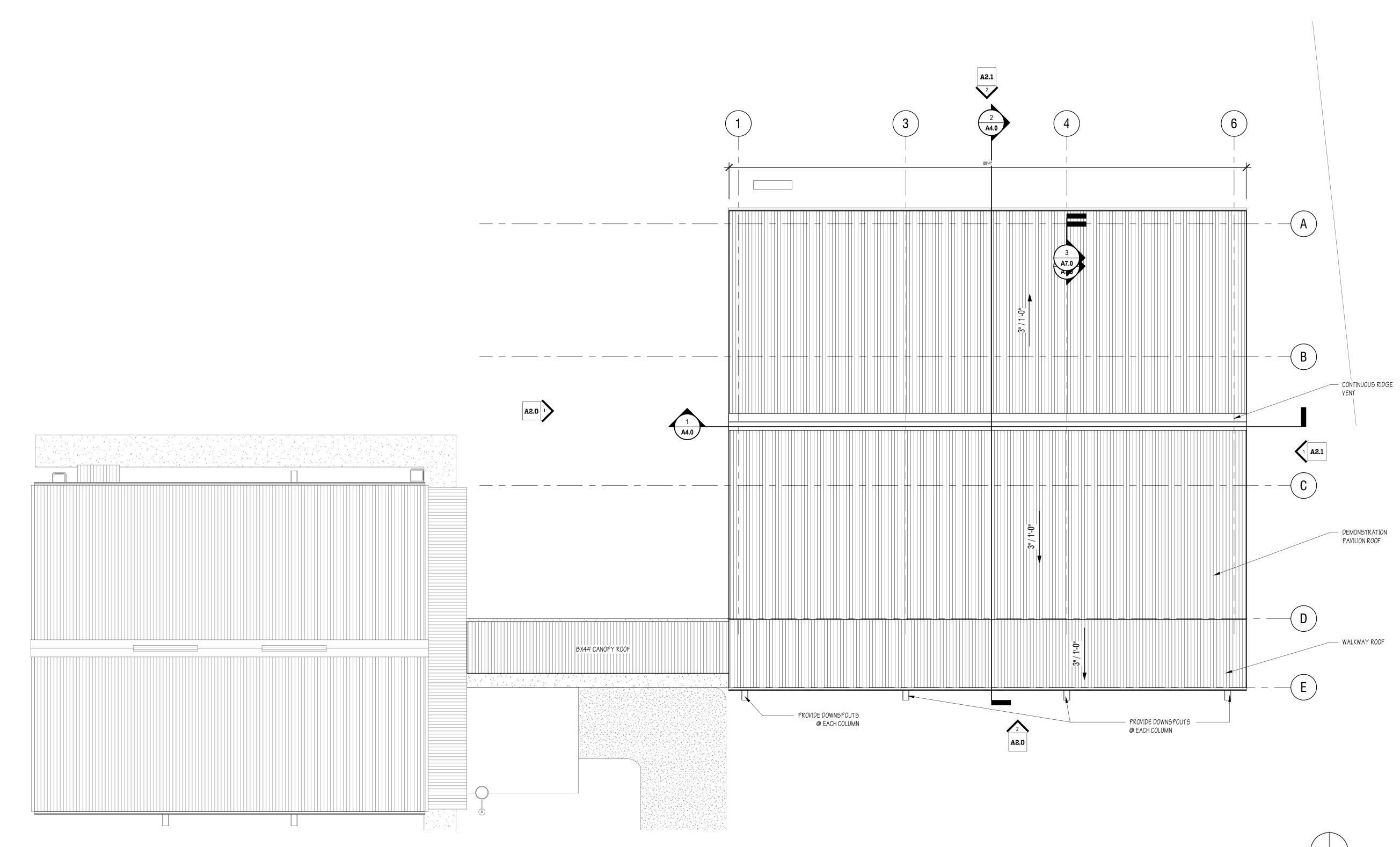
SKINNER VIGNOLA MCLEAN, INC.

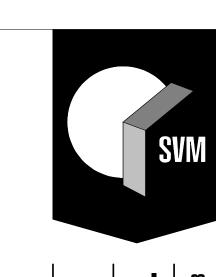
SVM

PLANNING, DESIGN CONSTRUCTION

DATE: 03/12/2020
DRAWN BY: JER
CHECKED BY: HJM

PROPOSED - PLAN - OVERALL





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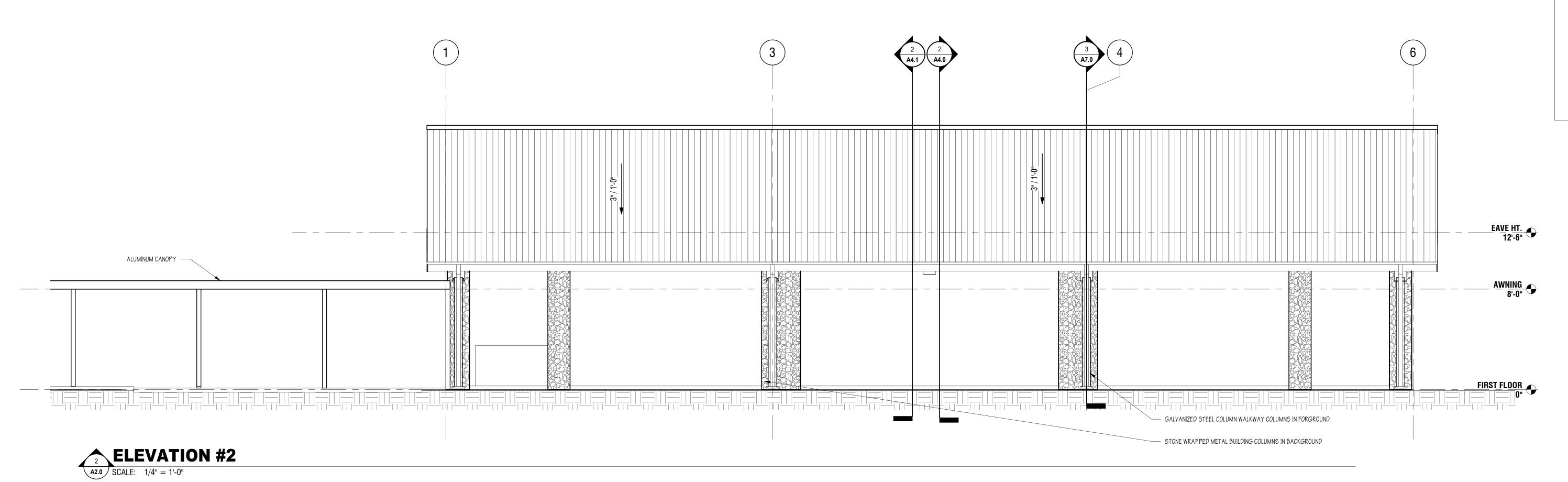
F PLANNING, DESIGN 6 CONSTRUCTION

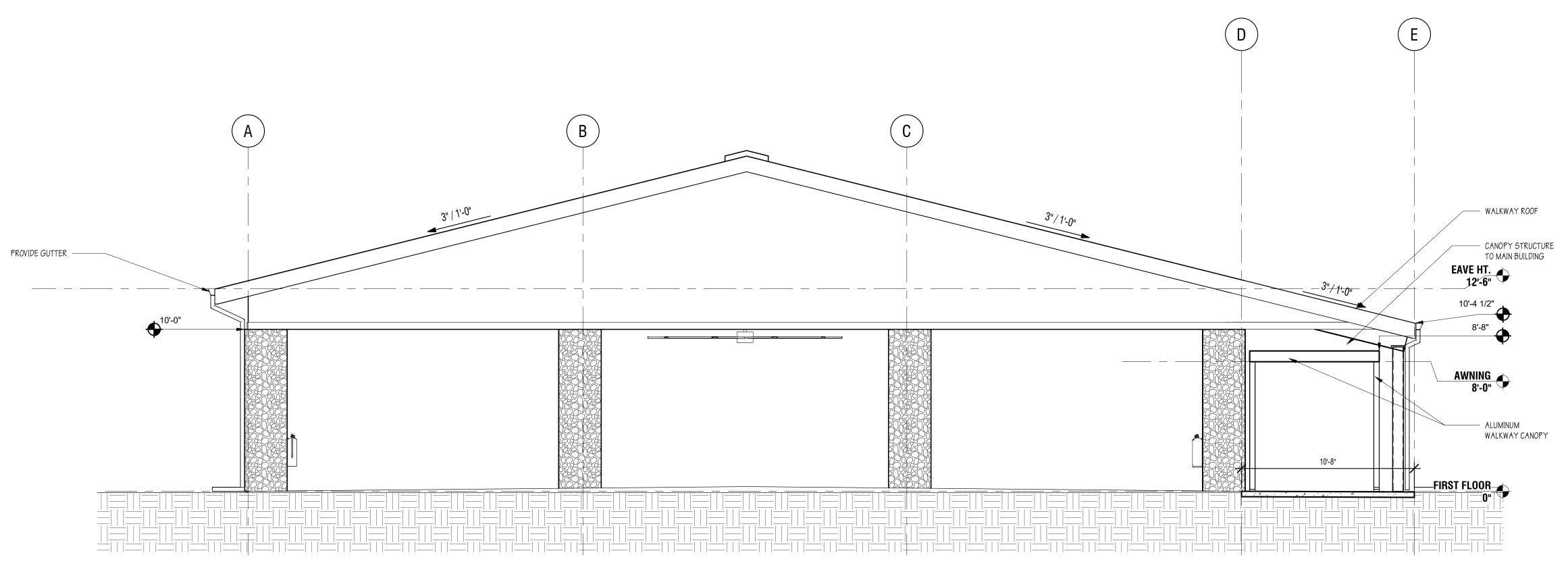
DATE: 03/12/2020
DRAWN BY: JER
CHECKED BY: HJM

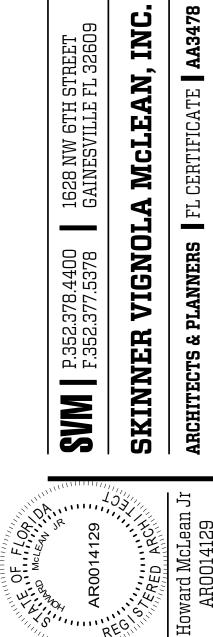
PROPOSED - ROOF PLAN

1460-30

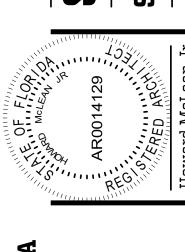
PROPOSED - PLAN - ROOF
SCALE: 1/8" = 1'-0"



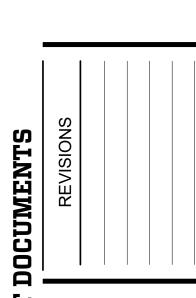




1628 NW 6TH STREET GAINESVILLE FL 32609





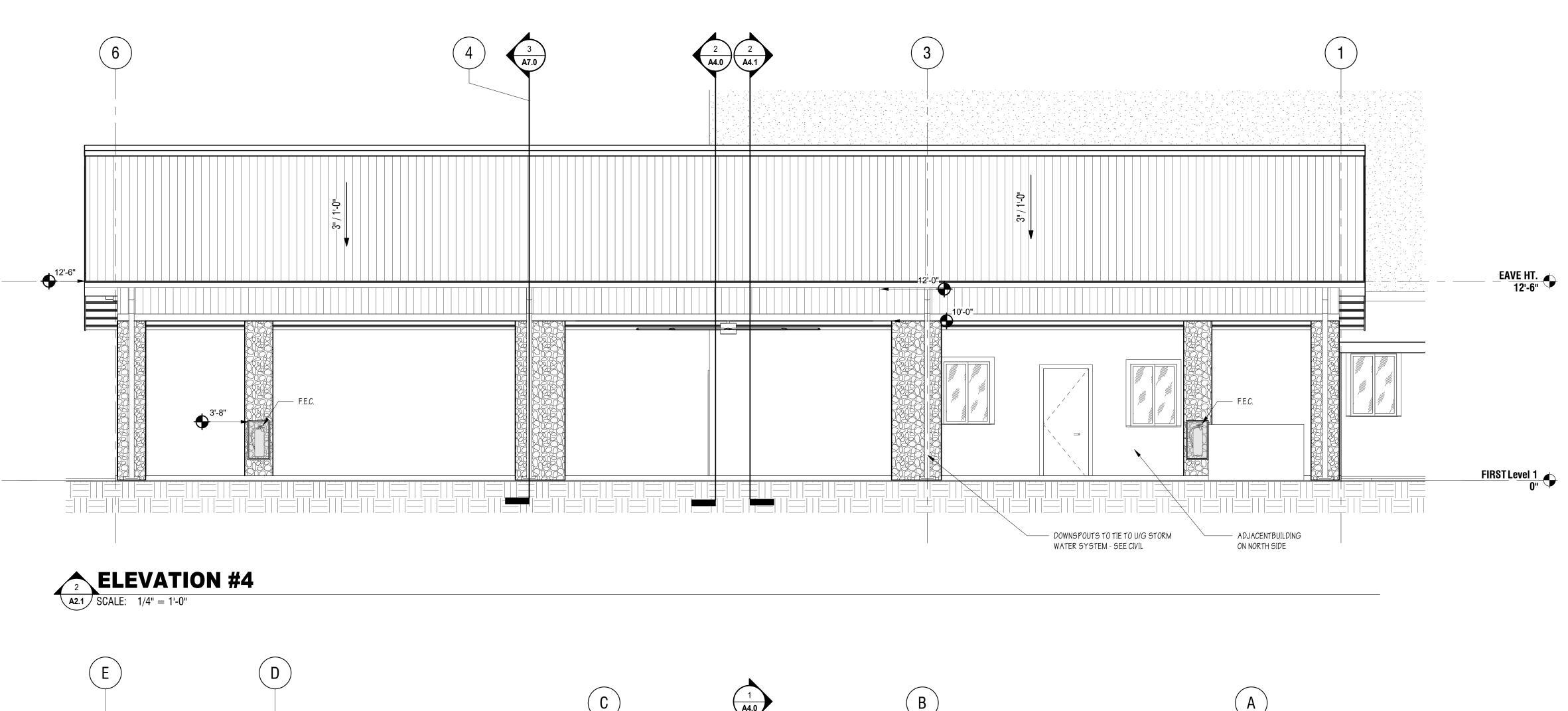


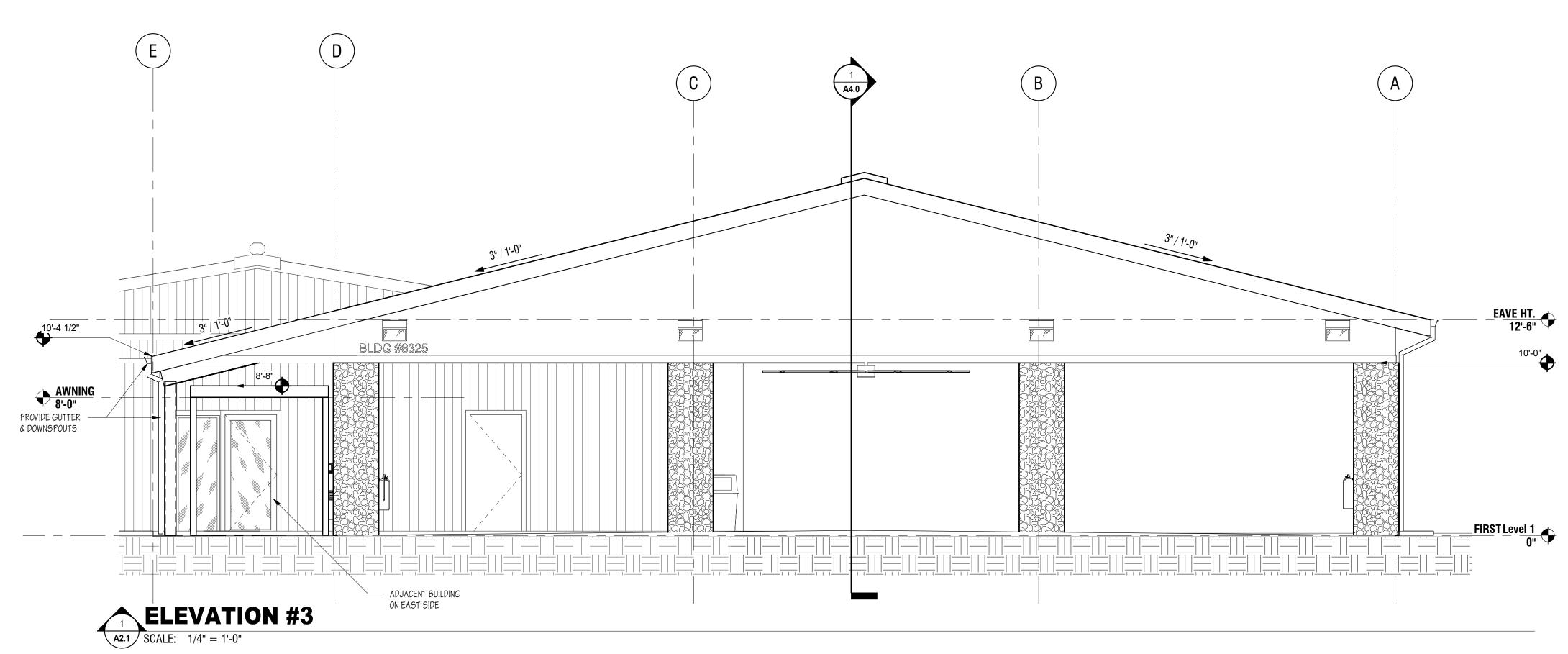
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CHECKED BY: HJM

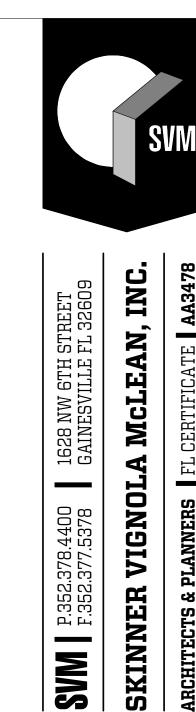
PROPOSED -ELEVATIONS -

EXTERIOR 1460-30

1 ELEVATION #1 A2.0 SCALE: 1/4" = 1'-0"

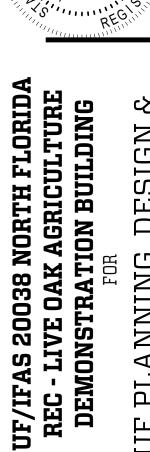




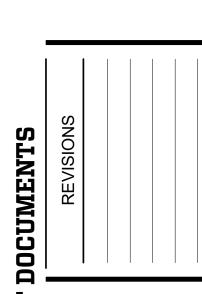


1628 NW 6TH STREET GAINESVILLE FL 32609

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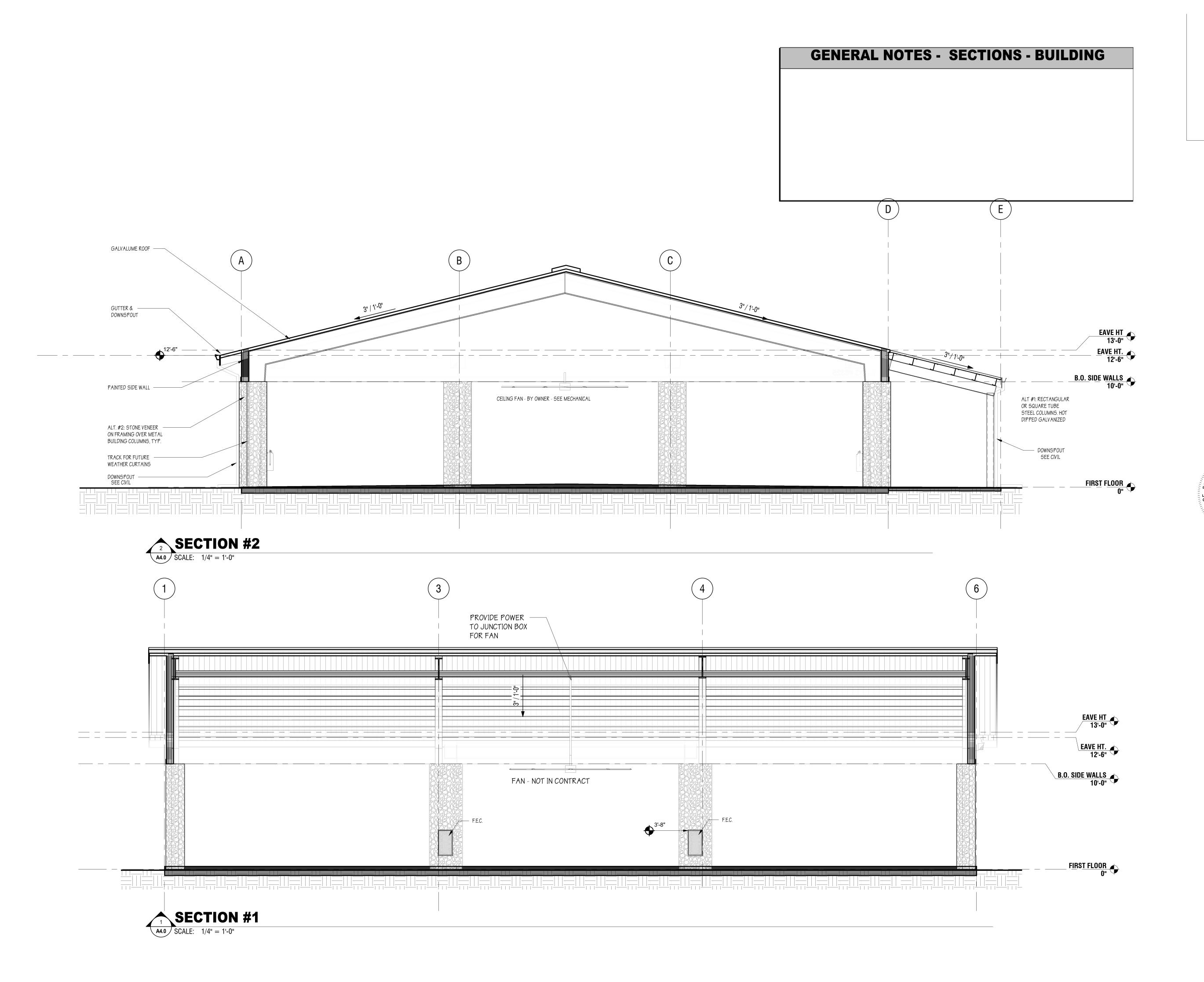


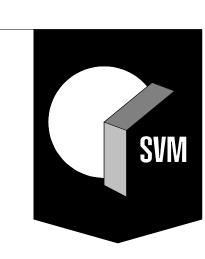
F PLANNING, DESIGN 6 CONSTRUCTION



DATE: 03/12/2020
DRAWN BY: JER
CHECKED BY: HJM

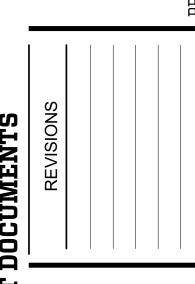
PROPOSED -ELEVATIONS -EXTERIOR





SKINNER VIGNOLA MCLEAN, INC. SVM

PLANNING, DESIGN CONSTRUCTION

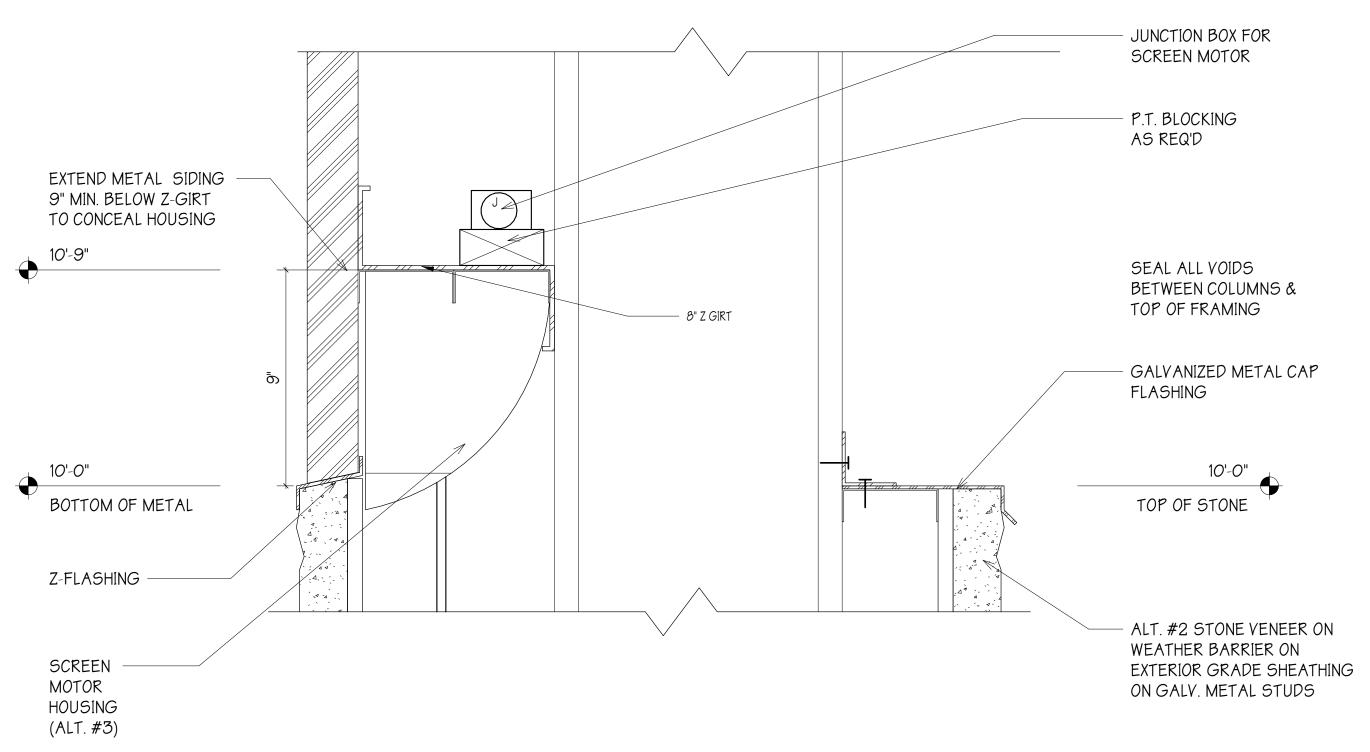


DATE: 03/12/2020
DRAWN BY: JER
CHECKED BY: HJM

PROPOSED -1460-30

PROPOSED - COLUMN SECTION PLAN

BOTTOM SECTION ALT. #2 STONE VENEER ON 4" METAL STUDS WEATHER BARRIER ON EXTERIOR GRADE SHEATHING ALL 4 SIDES EXTERIOR DOUBLE 4" GRADE METAL STUD SHEATHING ALIGN W/ BLDG FRAMING CONT. FLEXIBLE FLASHING OVER
3-1/2" CONT. METAL
FLASHING W/
HEMMED EDGE
-0'-4" COLUMN BEARING CONTINUOUS SEALANT BACKER ROD & SEALANT - CONCRETE PEDISTAL @ EACH COLUMN SIZE OF PEDISTAL W/ COLUMN SIZES & FRAMING



SKINNER VIGNOLA MCLEAN, INC. 1628 NW 6TH STREET GAINESVILLE FL 32609 SVM PLANNING, DESIGN CONSTRUCTION

DATE: 03/12/2020
DRAWN BY: JER
CHECKED BY: HJM

1460-30

PROPOSED -

SECTION @ TOP OF COLUMNS
SCALE: 3" = 1'-0"

PLUMBING GENERAL NOTES

1, COORDINATE WORK WITH OTHER TRADES. PROVIDE OFFSETS AND RELOCATE AS REQUIRED TO INSTALL A COMPLETE SYSTEM WITHOUT INTERFERING WITH OTHER TRADES. COORDINATE ANY NECESSARY CHANGES WITH THE GENERAL CONTRACTOR.

2. VERIFY INVERT ELEVATIONS WITH THE CIVIL DRAWINGS AND ON SITE CONDITIONS PRIOR TO INSTALLING ANY SYSTEM. ADJUST SYSTEM INVERT ELEVATIONS AND PROVIDE OFFSETS TO ACCOMMODATE EXISTING CONDITIONS.

3. CONTRACTOR SHALL INSTALL ALL SYSTEMS IN THEIR ENTIRETY ACCORDANCE WITH REFERENCED CODES, STANDARDS, DRAWINGS AND SPECIFICATIONS.

4. CONTRACTOR SHALL VISIT THE PROJECT SITE TO ACQUAINT THEMSELVES WITH THE EXISTING PROJECT CONDITIONS.

5.CONTRACTOR SHALL NOTIFY AND COORDINATE WITH THE OWNER AND GENERAL CONTRACTOR PRIOR TO ANY SYSTEM SHUT DOWN. PROVIDE ONE WEEK OF PRIOR NOTICE.

6. DO NOT CUT ANY BUILDING STRUCTURE WITHOUT PRIOR WRITTEN APPROVAL FROM THE STRUCTURAL ENGINEER. PROVIDE OPENINGS IN THE STRUCTURE PER THE STRUCTURAL ENGINEER'S DIRECTIONS PRIOR TO OR DURING STRUCTURE INSTALLATION. (SEE STRUCTURAL DRAWINGS.) REQUEST INFORMATION WHEN REQUIRED TO VERIFY STRUCTURAL REQUIREMENTS WITH THE GENERAL CONTRACTOR.

7. DO NOT HAMMER THROUGH CONCRETE WALLS TO INSTALL ANY ITEM. CORE DRILL, CUT HOLES OR PROVIDE SLEEVES DURING WALL INSTALLATIONS. DAMAGE DONE BY OTHER MEANS TO BLOCK WALLS SHALL BE REPAIRED TO THE SATISFACTION OF THE ARCHITECT.

8. PROVIDE BOTH DEEP SEAL TRAPS AND (TRAP PRIMER VALVES & CONNECTIONS) FOR FLOOR DRAINS IN AREAS OTHER THAN SHOWERS OR AS NOTED FOR KITCHEN FLOOR DRAINS. VERIFY EACH FLOOR DRAIN LOCATION WITH THE GENERAL CONTRACTOR SO THAT PROPER FLOOR SLOPES CAN BE PROVIDED. FLOOR DRAINS THAT DO NOT ACCEPT WATER DUE TO IMPROPER FLOOR SLOPES WILL NOT BE ACCEPTABLE. INSTALL SUCH THAT NO TRIP HAZARD IS PRESENT WHEN COMPLETED, MEANING THE TOP SHALL BE FLUSH WITH FINISHED FLOOR.

9. PROVIDE ACCESS TO ITEMS PLACED IN WALLS OR ABOVE CEILINGS. ABOVE CEILING ITEMS SHALL BE ACCESSIBLE FROM A 6' LADDER.

10. ANY PIPING PASSING THROUGH A FOUNDATION WALL SHALL BE PROVIDED WITH A RELIEVING ARCH OR A PIPE SLEEVE TWO PIPE SIZES LARGER THAN THE PIPE PASSING THROUGH THE FOUNDATION, PER THE FLORIDA PLUMBING CODE. MODIFICATIONS TO STRUCTURE REQUIRE THE STRUCTURAL ENGINEER'S DIRECTION. NOTIFY GENERAL CONTRACTOR OF INTERFERENCES PRIOR TO INSTALLATION. PIPING SHALL NOT PASS THROUGH OR BELOW BUILDING FOOTINGS.

11. PROTECT PIPES FROM CONTACT WITH CONCRETE. USE SLEEVES PER SPECIFICATIONS. ALLOW FOR EXPANSION AND CONTRACTION OF PIPE SYSTEMS.

12. PROVIDE FIRE STOPPING AT EACH RATED FLOOR OR WALL PENETRATION. REFER TO ARCHITECTURAL DRAWINGS FOR LOCATIONS OF FIRE RATINGS AND SYSTEMS.

13. REFER TO THE ARCHITECTURAL DRAWINGS FOR FIXTURE LOCATIONS AND ELEVATIONS.

14. PROVIDE PROPER BRACING FOR ALL FIXTURES TO SUPPORT THE WEIGHT DESCRIBED IN THE FLORIDA BUILDING CODE - ACCESSIBILITY.

15. DO NOT INSTALL PLASTIC PIPING IN AIR PLENUMS OR IN FIRE RATED WALLS. CONVERT TO CAST IRON AND/OR COPPER TUBING AS REQUIRED.

16. MAINTAIN A 15' CLEARANCE BETWEEN OUTDOOR AIR INTAKES AND PLUMBING VENTS. VERIFY LOCATIONS WITH MECHANICAL CONTRACTOR PRIOR TO INSTALLING THE VENTS.

17. THE ROOFING CONTRACTOR SHALL PROVIDE THE ROOF FLASHING FOR VENTS THROUGH THE ROOF. PLUMBING CONTRACTOR SHALL COORDINATE WITH THE ROOF CONTRACTOR AND GENERAL CONTRACTOR FOR EACH PENETRATION THROUGH THE ROOF. PROVIDE OFFSETS AS REQUIRED.

18, IN CONCEALED LOCATIONS WHERE PIPING, OTHER THAN CAST-IRON OR GALVANIZED STEEL, IS INSTALLED THROUGH HOLES OR NOTCHES IN STUDS, JOISTS, RAFTERS OR SIMILAR MEMBERS LESS THAN 1-1/2" FROM THE NEAREST EDGE OF THE MEMBER, THE PIPE SHALL BE PROTECTED BY STEEL SHIELD PLATES. SUCH SHIELD PLATES SHALL HAVE A THICKNESS OF NOT LESS THAN 16 GA. SUCH PLATES SHALL COVER THE AREA OF THE PIPE WHERE THE MEMBER IS NOTCHED OR BORED, AND SHALL EXTEND NOT LESS THAN 2" ABOVE SOLE PLATES AND BELOW TOP PLATES. (FBC-P-305.6).

PLUMBING LEGEND

EQUIPMENT TAG
XX=EQUIP TYPE, YY=EQUIP. NO.

CONNECT TO EXISTING GATE VALVE

GLOBE VALVE CHECK VALVE

BUTTERFLY VALVE

CALIBRATED BALANCING VALVE (CIRCUIT SETTER)

RELIEF VALVE

TWO WAY CONTROL VALVE

THREE WAY CONTROL VALVE

H_H PLUG VALVE PRESSURE REDUCING VALVE

— THERMOMETER

HH SENSOR WELL

| | UNION

—(\) PRESSURE GAUGE

ECCENTRIC REDUCER

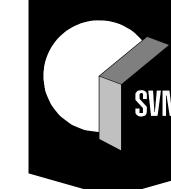
CONCENTRIC REDUCER VENTURI FLOW METER

FLEXIBLE PIPE CONNECTION TRAP PRIMER

WATER HAMMER ARRESTOR

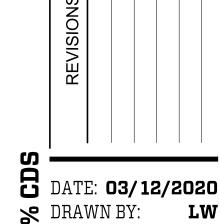
PLUMBING ABBREVIATIONS

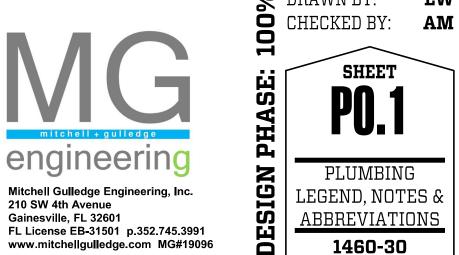
ABOVE FINISHED FLOOR ACCESS PANEL ACID VENT ACID WASTE BELOW FINISHED FLOOR BTU BRITISH THERMAL UNIT BTUH BTU PER HOUR CUBIC FEET PER HOUR CTG CLEAN OUT TO GRADE DEGF DEGREE FARENHEIT DIA DIAMETER DCW DOMESTIC COLD WATER DHW DOMESTIC HOT WATER DOMESTIC HOT WATER RETURN EX **EXISTING** EWC ELECTRIC WATER COOLER ELECTRIC WATER HEATER EWH FBC FLORIDA BUILDING CODE FCO FLOOR CLEAN OUT FLOOR DRAIN FPM FEET PER MINUTE FS FLOOR SINK FEET FEET WATER GAUGE GAUGE GALLONS GALLONS PER HOUR GPM **GALLONS PER MINUTE** GAS WATER HEATER HOSE BIBB HORSEPOWER INCHES INCHES WATER GAUGE KW KILOWATTS KWH KILOWATT HOUR LAVATORY POUND LEAVING WATER TEMPERATURE 1,000 BTUH MINIMUM MOP RECEPTOR NORMALLY CLOSED NATURAL GAS NOT IN CONTRACT NORMALLY OPEN NOT TO SCALE ON CENTER OUTSIDE DIAMETER POUNDS PER SQUARE INCH REVOLUTIONS PER MINUTE SANITARY SQUARE FEET SHOWER SINK SPECIFICATION STAINLESS STEEL; SERVICE SINK TRENCH DRAIN THERMOSTATIC MIXING VALVE TRAP PRIMER TYPICAL URINAL **VOLTS OR VENT** VALVE IN YARD BOX VARIABLE FREQUENCY DRIVE VENT THROUGH ROOF



1628 NW 6TH STREET GAINESVILLE FL 32609 P.352.378.4400 F.352.377.5378

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PLUMBING FIXTURE SCHEDULE

MARK TYPE ABBREV DCW (IN) DHW (IN) SAN (IN) VENT (IN) ELEC FLOW ACCESSIBLE NOTES
EWC-4 ELECTRIC WATER COOLER EWC 1/2 - 2 2 120-1 - YES OFOI DUAL WITH BOTTLE FILLER. PROVIDE WITH INTERAL WHA ON STOP.
NOTE: ALL PIPE SIZES SHOWN ARE FOR SINGLE FIXTURE INSTALLATION. WHERE MULTIPLE FIXTURES ARE SERVED BY A COMMON PIPE, SEE DRAWINGS FOR SIZE.

CODES AND STANDARDS

WCO

ALL PROJECT WORK SHALL BE GOVERNED BY AND ADHERE TO THE FOLLOWING CODES AND STANDARDS.

WATER CLOSET

WALL CLEAN OUT

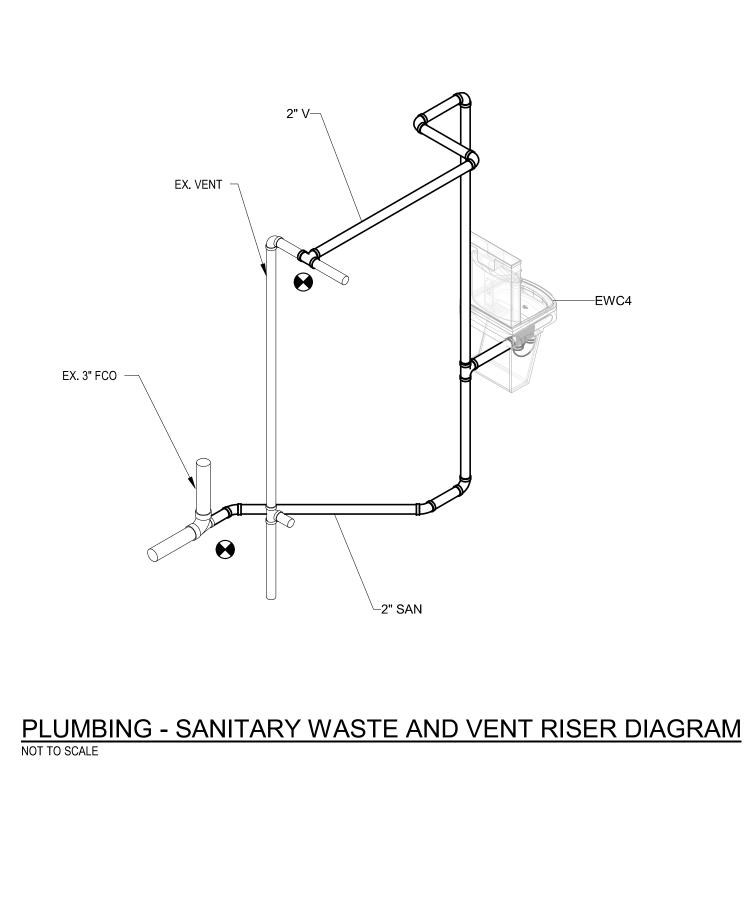
WATER HAMMER ARRESTOR

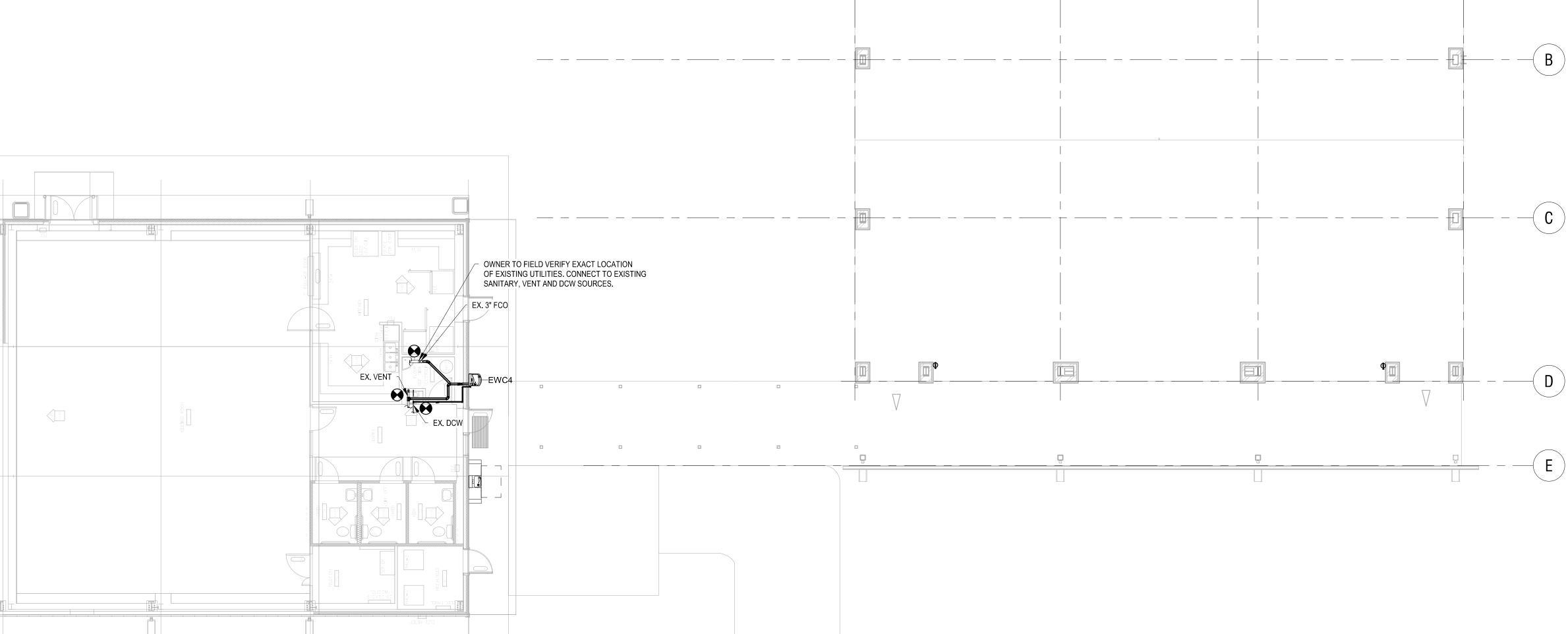
WATER PRESSURE DROP

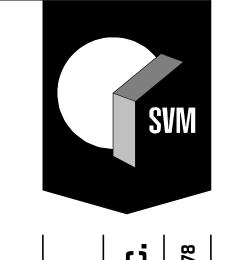
WALL HYDRANT

FLORIDA BUILDING CODE 6TH EDITION (2017) FLORIDA BUILDING CODE 6TH EDITION (2017) - PLUMBING FLORIDA BUILDING CODE 6TH EDITION (2017) - ENERGY CONSERVATION FLORIDA BUILDING CODE 6TH EDITION (2017) - MECHANICAL FLORIDA BUILDING CODE 6TH EDITION (2017) - ACCESSIBILITY FLORIDA FIRE PREVENTION CODE SIXTH EDITION (2017)

FIRE CODE (NFPA 1 - 2015 FLORIDA EDITION) B. LIFE SAFETY CODE (NFPA 101 - 2015 FLORIDA EDITION) 7. NATIONAL ELECTRIC CODE (NFPA 70) - 2014 EDITION







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S 20038 NORTH FLORIDA

IVE OAK AGRICULTURE

NSTRATION BUILDING

FOR

EVISIONS

BEC-LIVE

BEMONS:

UF PLAN

CON

REVISIONS

DATE: 03/12/2020
DRAWN BY: LW
CHECKED BY: AM

SHEET
PLUMBING FLOOR

1460-30

Mitchell Gulledge Engineering, Inc. 210 SW 4th Avenue Gainesville, FL 32601 FL License EB-31501 p.352.745.3991 www.mitchellgulledge.com MG#19096

PLUMBING FLOOR PLAN
1/8" = 1'-0"

ELECTRICAL WIRING DEVICE LABEL DETAIL

FROM XFMR TPA EXAMPLE PANELBOARD/SWITCHBOARD LABEL

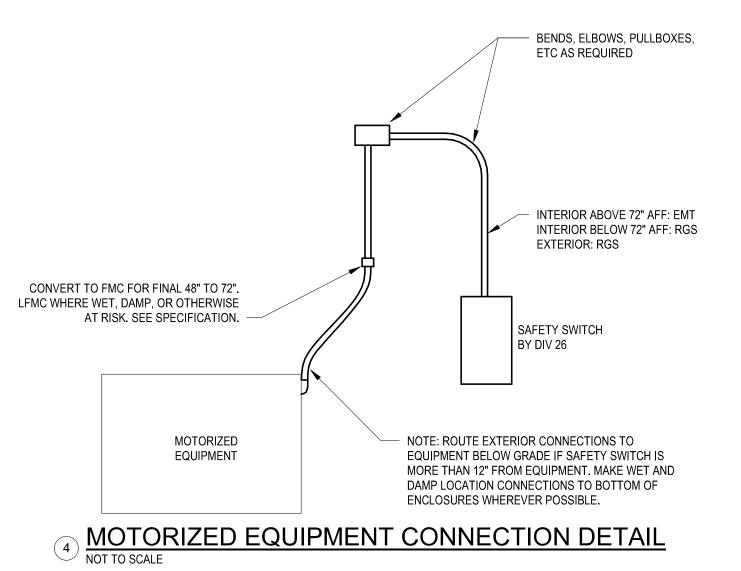
208Y/120V

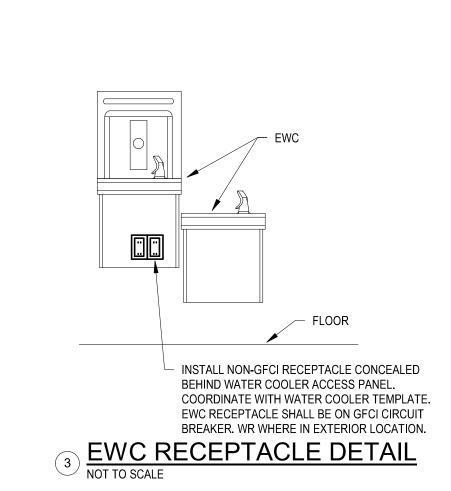
EXAMPLE MECHANICAL EQUIPMENT DISCONNECT LABEL

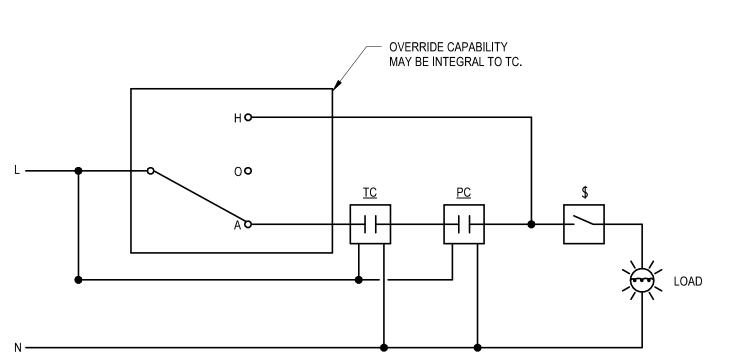
FROM MDP

PROVIDE ENGRAVED PLASTIC TAG WITH 1/4" HIGH LETTERS NORMAL POWER: BLACK LETTERS ON WHITE BACKGROUND. STANDBY POWER: WHITE LETTERS ON RED BACKGROUND. DIMENSIONS SHOWN ARE MINIMUM.

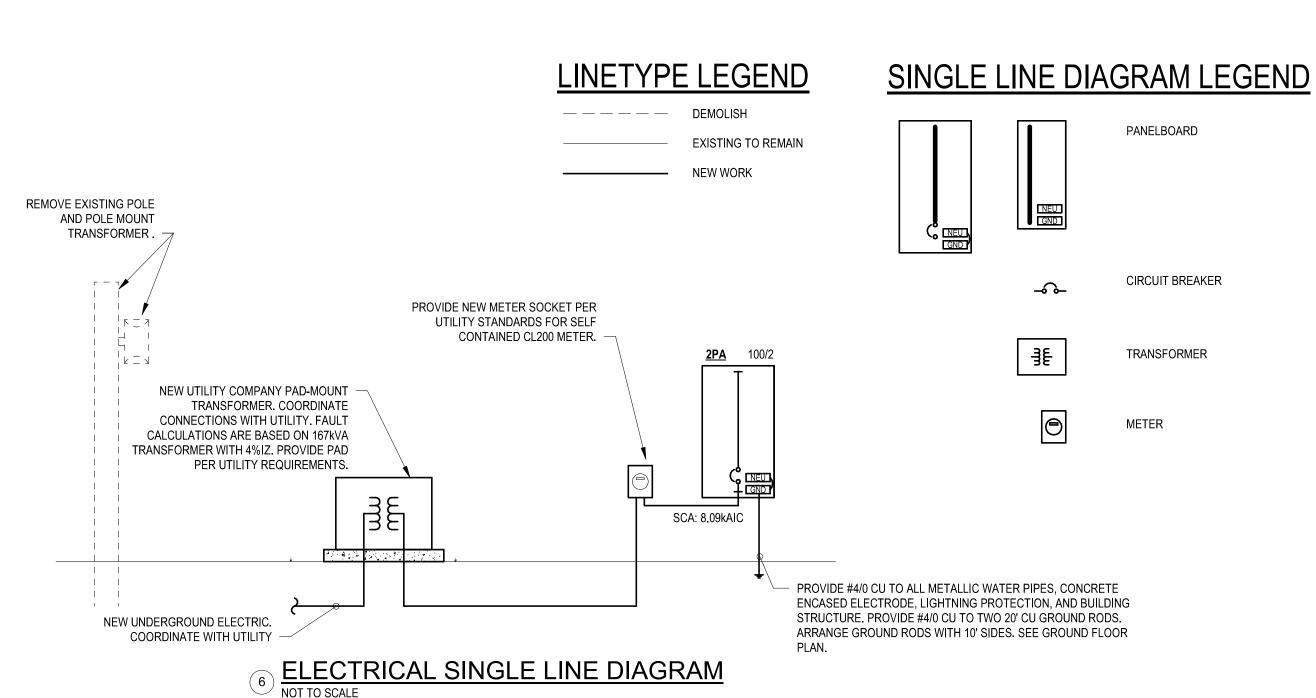
ELECTRICAL EQUIPMENT LABELING DETAIL







SINGLE-CIRCUIT EXTERIOR LIGHTING CONTROL DIAGRAM



LEGEND

RECEPTACLE:

DUPLEX RECEPTACLE. 18" AFF UNO.

ABOVE COUNTER DUPLEX RECEPTACLE. 46" AFF UNO. COORDINATE WITH COUNTER, BACKSPLASH, ETC.

DUPLEX RECEPTACLE FACE DOWN IN CEILING.

SPECIAL PURPOSE RECEPTACLE. 18" AFF UNO. COORDINATE WITH EQUIPMENT.

RECEPTACLE SUBSCRIPTS:

GFCI-TYPE RECEPTACLE. GFCI-TYPE POWER FROM BRANCH CIRCUIT BREAKER.

EWC NON-GFCI RECEPTACLE ON GFCI CIRCUIT BREAKER, COORDINATE HEIGHT WITH EQUIPMENT, WEATHER RESISTANT WIRING DEVICE. WP RECEPTACLES SHALL BE GFCI TYPE WITH IN-USE COVERS. 6-30R NEMA RECEPTACLE TYPE.

POWER EQUIPMENT AND CONNECTIONS:

PANELBOARD.

ELECTRICAL CONNECTION TO EQUIPMENT. SEE ELECTRICAL EQUIPMENT SCHEDULE.

JUNCTION BOX.

SAFETY SWITCH. MOUNT AS INDICATED. 60" TO TOP UNO.

FUSED SAFETY SWITCH. MOUNT AS INDICATED. 60" TO TOP UNO.

LIGHT FIXTURES:

LIGHT FIXTURES SHALL BE AS INDICATED IN LIGHT FIXTURE SCHEDULE. SEE LIGHT FIXTURE SCHEDULE.

LIGHT FIXTURES SUBSCRIPTS:

LOWERCASE LETTERS INDICATE SWITCHING/DIMMING ZONES.

LIGHT NOT SWITCHED BY OCCUPANCY SENSORS OR SWITCHES. PARTIAL SHADING OR 'EM' SUBSCRIPT INDICATES EMERGENCY FIXTURE. SEE LIGHT FIXTURE SCHEDULE.

LIGHTING CONTROLS:

TOGGLE SWITCH. 46" AFF UNO.

120/277V 20A PHOTOCELL. BOD: INTERMATIC EK4236S.

120/277V LIGHTING CONTACTOR. BOD: ENCLOSED SQUARE D CLASS 8903 WITH HOA SWITCH.

120/277V ASTRONOMICAL TIME CLOCK. BOD: INTERMATIC ET1125CR.

LIGHTING CONTROLS SUBSCRIPTS:

2-POLE TOGGLE SWITCH. 3-WAY TOGGLE SWITCH.

4-WAY TOGGLE SWITCH. LOWERCASE LETTERS INDICATE SWITCHING/DIMMING ZONES.

TELECOMMUNICATIONS:

ROUGH-IN-ONLY TO. 18" AFF UNO. PROVIDE 1"C TO ABOVE ACCESSIBLE CEILING.

CEILING MOUNT TO ROUGH-IN.

TELECOMMUNICATIONS SUBSCRIPTS: CAM CAMERA TO.

WAP WIRELESS ACCESS POINT TO ABOVE COUNTER

ANNOTATIONS:

DEMOLITION SHEET NOTE.

ELECTRICAL SHEET NOTE.

GENERAL SUBSCRIPTS (APPLY TO ALL CATEGORIES):

<u>2P1A</u> ELECTRICAL EQUIPMENT TAG.

MECHANICAL EQUIPMENT TAG.

GCB FED FROM GFCI TYPE CIRCUIT BREAKER.

INDICATES HEIGHT OF FIXTURE, RECEPTACLE, BOX, CABINET, ETC. HEIGHT IS TO CENTERLINE UNLESS OTHERWISE INDICATED.

WP WEATHERPROOF INSTALLATION, WITH APPROPRIATELY LISTED OR INDICATED PRODUCTS

ELECTRICAL HOME RUN TO PANELBOARD. UNDERLINED LABEL INDICATES PANELBOARD NAME AND CIRCUIT NUMBER. UNLESS INDICATED OTHERWISE DEFAULT WIRING IS #12 & #12G. PROVIDE CONDUCTORS AS NEEDED FOR

INDICATED SWITCHED LEGS, ZONES, ETC. SEE ELECTRICAL EQUIPMENT SCHEDULE FOR SPECIFIC CIRCUIT SIZING.

LIGHTNING PROTECTION:

CLASS I LIGHTNING PROTECTION CONDUCTOR. MATCH MATERIAL TO ROOF TO AVOID

CLASS I DOWN CONDUCTOR TO COMPLIANT LIGHTNING PROTECTION GROUND ROD WHERE UTILIZING ALUMINUM CONDUCTORS, CONVERT TO COPPER WITH APPROVED

CLASS I AIR TERMINAL WITH ROUNDED TIP.

TOTALS (kVA)

TOTALS (A)

ABBREVIATIONS

(ELECTRONIC) ACCESS CONTROL SYSTEM

AWG AMERICAN WIRE GAUGE BOD BASIS OF DESIGN

CONDUIT

CAM CAMERA CB CIRCUIT BREAKER

CONTRACTOR FURNISHED, CONTRACTOR INSTALLED CONTRACTOR FURNISHED, OWNER INSTALLED

CKT CIRCUIT

COMBINATION MOTOR STARTER CARBON MONOXIDE

DIV DIVISION ECB ENCLOSED CIRCUIT BREAKER EOR ENGINEER OF RECORD

ELECTRIC WATER COOLER EXISTING TO REMAIN FUSED SAFETY SWITCH

GROUND, GROUND FAULT CIRCUIT INTERRUPTER GFCI CIRCUIT BREAKER

LTG LIGHTING LTS LIGHTS

MOTOR CONTROL CENTER NOTIFICATION APPLIANCE CIRCUIT

OWNER FURNISHED, CONTRACTOR INSTALLED OWNER FURNISHED, OWNER INSTALLED

PANELBOARD POWER QUALITY METER

SURGE PROTECTION DEVICE SIGNALING LINE CIRCUIT

SAFETY SWITCH SWBD SWITCHBOARD TO BE DETERMINED

TELECOMMUNICATIONS ROOM TELECOMMUNICATIONS OUTLET TYPICAL

UNIVERSITY OF FLORIDA UNIVERSITY OF FLORIDA UNLESS NOTED OTHERWISE

VARIABLE FREQUENCY DRIVE WAO WORK AREA OUTLET WIRELESS ACCESS POINT

WEATHER PROOF / WEATHER RESISTANT WEATHER PROOF / WEATHER RESISTANT WRT WITH RESPECT TO

CODES AND STANDARDS

ALL PROJECT WORK SHALL BE GOVERNED BY AND ADHERE TO THE FOLLOWING CODES AND STANDARDS.

FLORIDA BUILDING CODE - SIXTH EDITION (2017) FLORIDA BUILDING CODE - SIXTH EDITION (2017) - ENERGY CONSERVATION FLORIDA FIRE PREVENTION CODE - SIXTH EDITION (2017)

A. FIRE CODE (NFPA 1 - 2015 FLORIDA EDITION) B. LIFE SAFETY CODE (NFPA 101 - 2015 FLORIDA EDITION)

NATIONAL ELECTRIC CODE (2014 NFPA 70). UNDERWRITERS' LABORATORIES (UL)

AMERICAN NATIONAL STANDARDS INSTITUTION (ANSI) AMERICAN SOCIETY OF TESTING MATERIALS (ASTM) NATIONAL FIRE PROTECTION ASSOCIATION (NFPA)

NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION (NEMA INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS (IEEE)

NATIONAL ELECTRICAL CONTRACTORS ASSOCIATION (NECA) AMERICAN SOCIETY OF HEATING, REFRIGERATING AND AIR-CONDITIONING ENGINEERS (ASHRAE)

SHEET METAL AND AIR CONDITIONING CONTRACTORS' NATIONAL ASSOCIATION (SMACNA) ILLUMINATING ENGINEERING SOCIETY OF NORTH AMERICA (IESNA)

TELECOMMUNICATIONS INDUSTRY ASSOCIATION (TIA) ELECTRONICS INDUSTRY ALLIANCE (EIA)

GENERAL DEMOLITION NOTES

ALL CIRCUITS AND SYSTEMS OUTSIDE OF THE PROJECT AREA ARE TO REMAIN IN SERVICE AT ALL TIMES THROUGHOUT THE WORK. COORDINATE ANY NECESSARY OUTAGES WITH OWNER PRIOR TO PROCEEDING.

DEMOLISH ALL FIXTURES AND CIRCUITS AS INDICATED. DEMOLISH ALL ASSOCIATED WIRES, RACEWAY, AND BOXES. MAINTAIN FUNCTIONALITY OF ALL REMAINING FIXTURES AND EQUIPMENT.

DEMOLISH ANY SYSTEMS AND APPURTENANCES DISCOVERED WITHIN WALLS BEING DEMOLISHED. WHERE THESE SYSTEMS SERVE AREAS OUTSIDE OF THE PROJECT AREA, COORDINATE WITH OWNER, ARCHITECT, AND ENGINEER TO MAINTAIN EXISTING FUNCTIONALITY IN A WAY COMPATIBLE WITH THIS

NEC ELECTRICAL LOAD CALCULATION: PANEL 2PA (240Y/120V 1Ø 3W) NEC 220 CALC NOTES CONNECTED ADJUSTMENT PER UNIT LOAD LOAD DESCRIPTION LOADS **FACTOR** LOAD HIGH VOLUME LOW VELOCITY FANS 7200.0 VA ea 7.2 kVA 1.25 9.0 kVA LIGHTING 16 1.168 kVA 1.25 73 VA ea 1.46 kVA 29 VA ea LIGHTING 0.116 kVA 0.145 kVA 1.25 LIGHTING 41 VA ea 0.082 kVA 1.25 0.103 kVA 600 VA ea **EWC** 0.6 kVA 1.00 0.6 kVA **RECEPTACLES** 180 VA ea 12 2.16 kVA 1.00 2.16 kVA

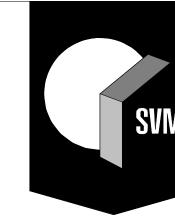
11.326 kVA

47.19 A

13.468 kVA

56.11 A

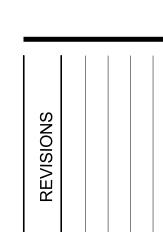


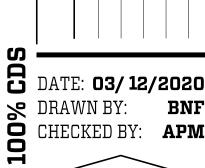


1628 NW 6TH 9 GAINESVILLE 1

352.378.

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ELECTRICAL LEGEND, CODES, & ABBREVIATIONS

Branch Panel: 2PA

Location: Supply From: Mounting: Surface Enclosure: N3R Basis of Design: NQ Service Rated: YES

Volts: 120/240 Single Phases: 1 Wires: 3 **A.I.C. Rating:** 22,000 SPD: YES

PQM: NO

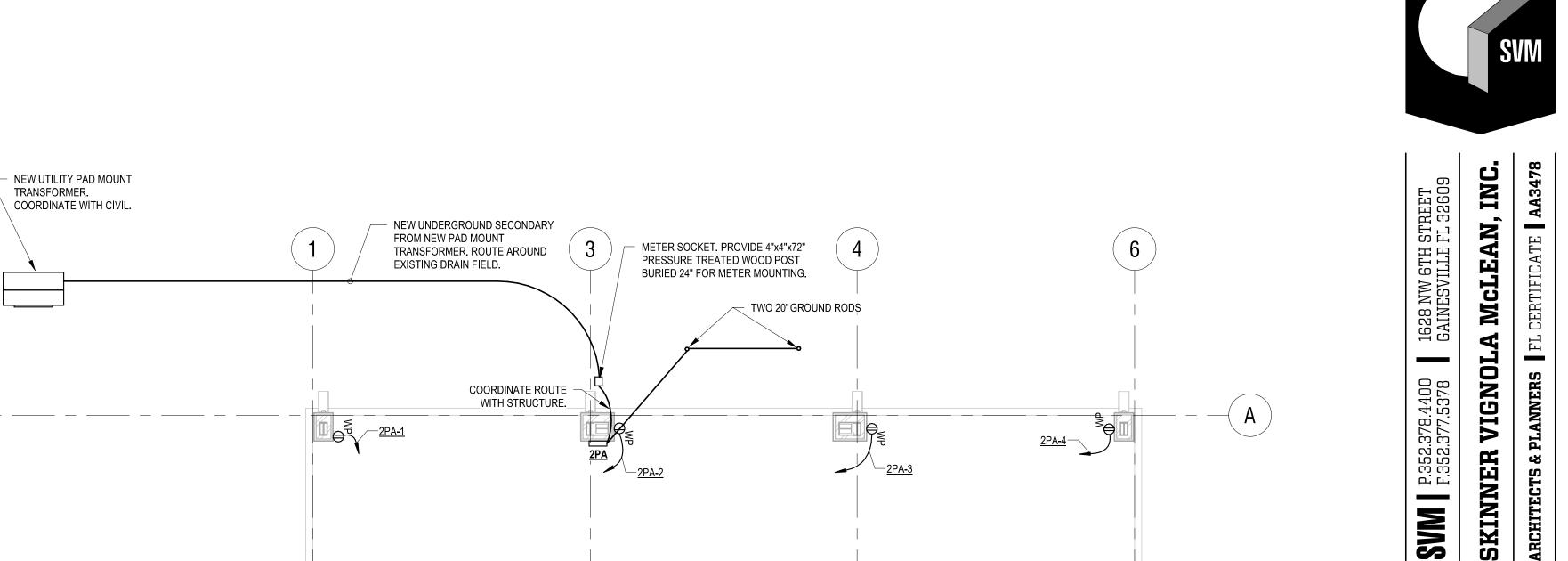
Phase Bus Rating: 100 A MCB Rating: 100 A Neutral Rating: 100% Feeder Ampacity: 100 A Feeder Phase Conductor: 2#3 Feeder Neutral Conductor: 1#3 Feeder Ground Conductor: N/A Feeder Conduit: 1-1/4"

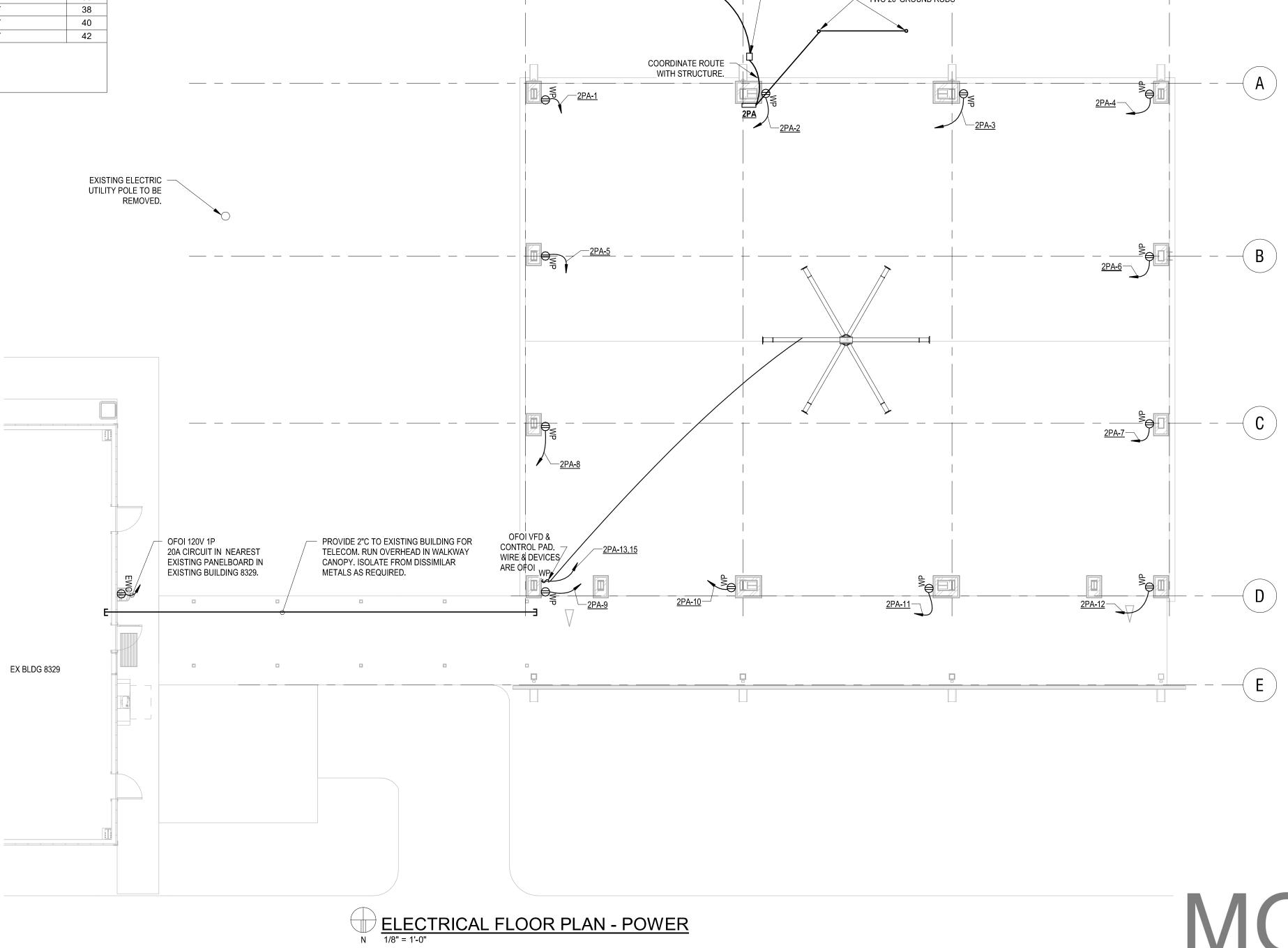
Number of Parallel Runs: 1

				_	_	_	_				
CKT	Cincuit Decemention	Tuin	Dalas	Α	В	Α	В	Dalaa	Tuita	Cincuit Description	CIT
CKT	Circuit Description	Trip	Poles					Poles	Trip	Circuit Description	CKT
1	RCPTS	20 A	1	180 VA		180 VA		1	20 A	RCPTS	2
3	RCPTS	20 A	1		180 VA		180 VA	1	20 A	RCPTS	4
5	RCPTS	20 A	1	180 VA		180 VA		1	20 A	RCPTS	6
7	RCPTS	20 A	1		180 VA		180 VA	1	20 A	RCPTS	8
9	RCPTS	20 A	1	180 VA		180 VA		1	20 A	RCPTS	10
11	RCPTS	20 A	1		180 VA		180 VA	1	20 A	RCPTS	12
13	FAN 40		2	3600 VA		1362 VA		1	20 A	LIGHTING	14
15	FAN	40 A	2		3600 VA		0 VA			SPACE ONLY	16
17	SPARE	20 A	1	0 VA		0 VA				SPACE ONLY	18
19	SPARE	20 A	1		0 VA		0 VA			SPACE ONLY	20
21	SPARE	20 A	1	0 VA		0 VA				SPACE ONLY	22
23	SPARE	20 A	1		0 VA		0 VA			SPACE ONLY	24
25	SPARE	20 A	1	0 VA		0 VA				SPACE ONLY	26
27	SPARE	20 A	1		0 VA		0 VA			SPACE ONLY	28
29	SPARE	20 A	1	0 VA		0 VA				SPACE ONLY	30
31	SPARE	20 A	1		0 VA		0 VA			SPACE ONLY	32
33	SPARE	20 A	1	0 VA		0 VA				SPACE ONLY	34
35	SPARE	20 A	1		0 VA		0 VA			SPACE ONLY	36
37	SPARE	20 A	1	0 VA		0 VA				SPACE ONLY	38
39	SPARE	20 A	1		0 VA		0 VA			SPACE ONLY	40
41	SPARE	20 A	1	0 VA		0 VA				SPACE ONLY	42
Total Load:				604	0 VA	4680) VA				<u>'</u>

39 A

50 A





DATE: 03/12/2020
PRAWN BY: BNF
CHECKED BY: APM

ELECTRICAL FLOOR PLAN -POWER

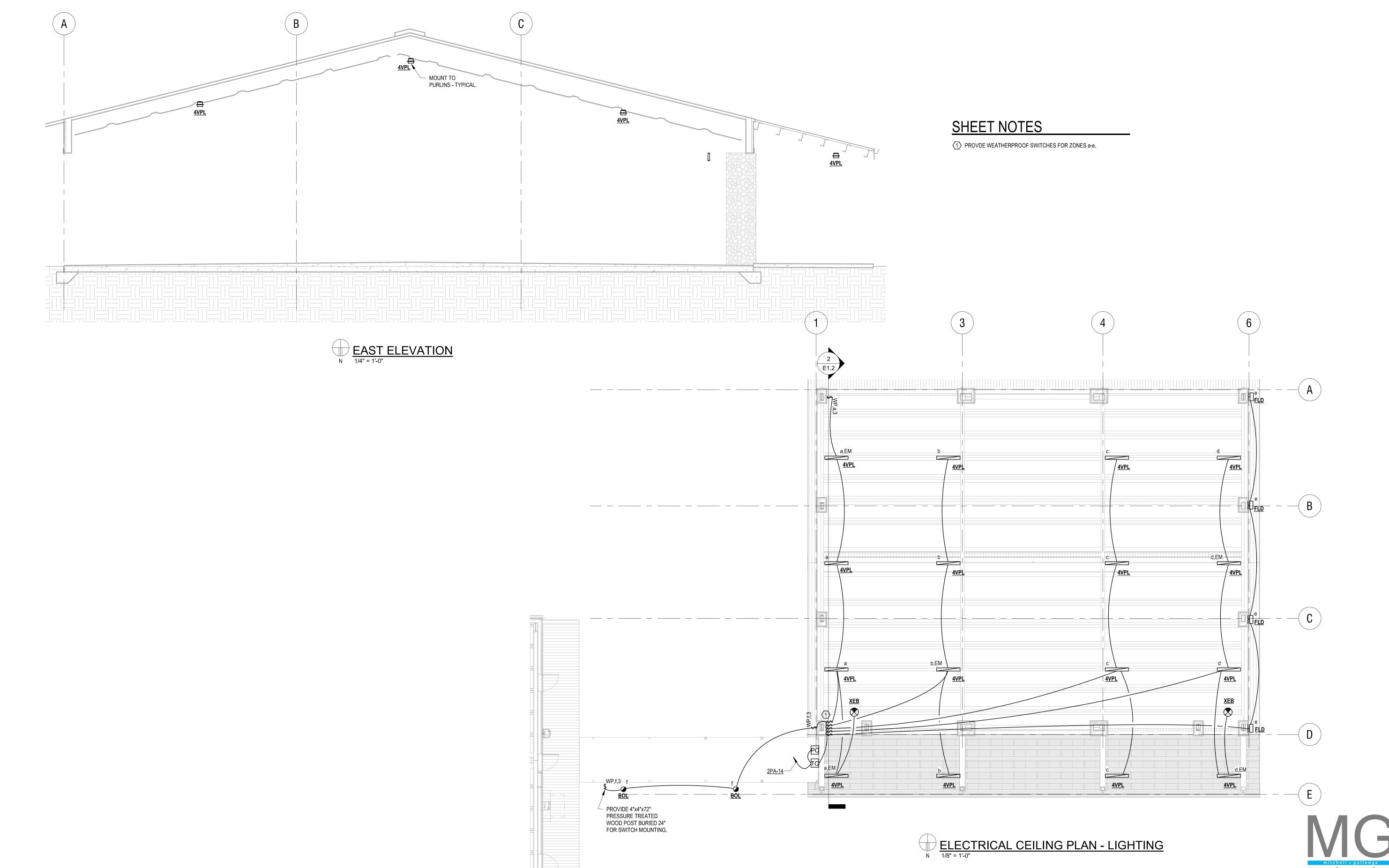
1460-30

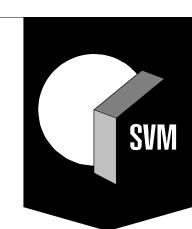
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LIGHT FIXTURE SCHEDULE									
TYPE	DESCRIPTION	BASIS OF DESIGN	LIGHT SOURCE	INITIAL LUMENS COLO	R TEMPERATURE	WATTAGE	VOLTAGE	MOUNTING	NOTES
4VPL	4' VAPORTIGHT LED WRAP	H.E. WILLIAMS 96-4-L62/840-PCFR-DRV-UNV	LED	6200 lm	4000 K	73 VA	120 V	MOUNT TO PURLINS	MOUNT TO STRUCTURE.
BOL	LED BOLLARD WITH EMERGENCY BATTERY	GARDCO PBL-36-14L-800-NW-G2-3-EBP-120-F1-FINISH	LED	3198 lm	4000 K	41 VA	120 V	POLE IN GROUND	COORDINATE FINISH WITH ARCHITECT. PROVIDE EMERGENCY BATTERY WITH FIXTURE. BATTERY SHALL BE RATED FOR 4°F.
FLD	LED EXTERIOR FLOOD LIGHT WALL MOUNT	PHILLIPS GARDCO CSFS-16-530-NW-G1-YK-A33-120-BK WITH BP-(F)	LED	3025 lm	4000 K	29 VA	120 V	WALL AT 9'	PROVIDE BP-(F) SURFACE MOUNT BASE PLATE.
XEB	EDGE LIT LED EXIT SIGN	BEGHELLI OL2 PLUS	A-19			2 VA	120 V		

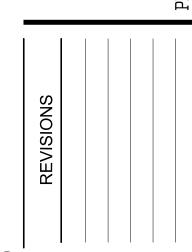
1. SUBMIT ALTERNATES TO A/E FOR CONSIDERATION A MINIMUM OF 10 BUSINESS DAYS PRIOR TO BID. SUBMIT FIXTURE "CUT SHEET", INDICATING ALL INTENDED RATINGS AND OPTIONS.
2. A/E WILL REVIEW ALTERNATES TO DETERMINE IF THEY ARE FUNCTIONALLY, AESTHETICALLY, AND STRUCTURALLY EQUAL. A/E RESERVE THE RIGHT TO REJECT ANY FIXTURES WHICH ARE NOT DEEMED EQUAL TO THE BASIS OF DESIGN.

3. ALTERNATES REJECTED BY A/E SHALL NOT RESULT IN ADDITIONAL CHARGES TO THE OWNER.
4. FIXTURES HALF SHADED OR MARKED 'EM' ON THE PLANS SHALL BE PROVIDED WITH BODINE BATTERIES PROVIDING AT LEAST 7001m OUTPUT FOR AT LEAST 90 MINUTES.





UF/IFAS 20038 NORTH FLORIDA REC - LIVE OAK AGRICULTURE DEMONSTRATION BUILDING FOR UF PLANNING, DESIGN & CONSTRUCTION LIVE OK, FL 32



DATE: **03/12/2020**PORAWN BY: **BNF**CHECKED BY: **APM** Mitchell Gulledge Engineering, Inc. 210 SW 4th Avenue Gainesville, FL 32601 FL License EB-31501 p.352.745.3991 www.mitchellgulledge.com MG#19096

ELECTRICAL CEILING PLAN -1460-30