A INTERIOR RENOVATION (BANQUET FACILITY / 19th HOLE GRILL ROOM) AND NEW GOLF CART METAL BUILDING ROOF OVER FOR:

OCALA MUNICIPAL GOLF CLUB

3130 E. SILVER SPRINGS BLVD. OCALA, FLORIDA 34470

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BUILDING DATA:

- BANQUET FACILITY
  KITCHEN PARTIAL REMODEL, RESTROOM REMODEL AND BAR RE-LOCATION
- 19th HOLE GRILL ROOM
  KITCHEN RENOVATION & EXPANSION AND BAR EXPANSION
- GOLF CART METAL BUILDING ROOF OVER

WIND LOADING CRITERIA:

FBC TABLE 1609.3(1)

BASIC WINDSPEED: (140) MPH
WIND IMPORTANCE FACTOR : (1)
WIND EXPOSURE: (B)

APPLICABLE INTERNAL PRESSURE COEFFICIENT:
0.18 FOR ENCLOSED STRUCTURES AND 0.55 FOR COVERED ENTRIES.

A= 3'-6"

COMPONENT & CLADDING DESIGN PRESSURE LOADS: SUPPLIERS / MANUFACTURERS OF ALL CLADDING AND COMPONENTS (INCLUDING, BUT NOT LIMITED TO: SIDING, ROOFING, DOORS, WINDOWS, AWNINGS, ETC.) WILL SUBMIT REPORTS & DATA SIGNED AND SEALED BY A LICENSED STRUCTURAL ENGINEER IN THE STATE OF FLORIDA DOCUMENTING COMPLIANCE WITH THIS PROVISION OF THE FLORIDA BUILDING CODE; 2020 EDITION.

CODE REFERENCE

APPLICABLE CODES:

THIS PROJECT IS DESIGNED TO MEET THE REQUIREMENTS OF:
FLORIDA BUILDING CODE (FBC) 7TH EDITION 2020: BUILDING
FLORIDA BUILDING CODE (FBC) 7TH EDITION 2020: PLUMBING
FLORIDA BUILDING CODE (FBC) 7TH EDITION 2020: MECHANICAL
FLORIDA BUILDING CODE (FBC) 7TH EDITION 2020: FUEL GAS
FLORIDA BUILDING CODE (FBC) 7TH EDITION 2020: ACCESSIBILITY
FLORIDA FIRE PREVENTION CODE 7TH EDITION 2020
FLORIDA BUILDING CODE (FBC) 7TH EDITION 2020: ENERGY CONSERVATION CODE
NATIONAL ELECTRIC CODE 2017

PRIMARY OCCUPANCY (FBC CHAPTER 3):
BUSINESS - GROUP B

SECONDARY OCCUPANCY (FBC CHAPTER 3):
STORAGE - GROUP S-2

TYPE OF CONSTRUCTION (FBC CHAPTER 6):
TYPE III-B (UNPROTECTED & UNSPRINKLERED)

RISK CATEGORY: (FBC CHAPTER 16 TABLE 1604.5):
RISK CATEGORY: II

GENERAL BUILDING LIMITATIONS (FBC TABLE 504.3):

GROUP B	TYPE III-A (UNPROTECTED, UNSPRINKLERED)	
	ALLOWABLE:	PROVIDED:
MAX HEIGHT	65'-0"	18'-0"
MAX STORIES	5	1
MAX AREA	28,500 SF (GROSS)	24,500 SF (GROSS)

FIRE SPRINKLER REQUIREMENTS:
(FBC 903, NFPA 101)
FIRE SPRINKLER IS NOT REQUIRED IN THIS BUILDING PER APPLICABLE CODES.

FIRE ALARM REQUIREMENTS:
(FBC 907, NFPA 72)
FIRE ALARM IS NOT REQUIRED IN THIS BUILDING PER APPLICABLE CODES.

MEANS OF EGRESS (FBC CHAPTER 10)
POPULATION/ OCCUPANCY LOAD (FROM TABLE 1004.5)

GENERAL NOTES

ALL WORK SHALL BE EXECUTED IN ACCORDANCE WITH ALL GOVERNING NATIONAL, STATE AND LOCAL CODES AND REGULATIONS.

PROVIDE CONTINUOUS SEALANT TO PROVIDE "WATER AND AIR-TIGHT" CONDITION AT THE PERIMETER OF THE BUILDING. THIS INCLUDES BUT IS NOT LIMITED TO ALL DOORS AND DOOR FRAMES, INTERIOR AND EXTERIOR WINDOW FRAMES AND COMPONENTS, PLUMBING FIXTURES, TOILET ACCESSORIES (BOTH RECESSED & SURFACE MOUNTED), FIRE EXTINGUISHER CABINETS, FIRE DEPARTMENT VALVE CABINETS.

ALTHOUGH EVERY EFFORT HAVE BEEN MADE TO PROVIDE CLEAR AND CONCISE DOCUMENTS, ANY CONFLICTS FOUND SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT FOR HIS CLARIFICATION OR DETERMINATION OF WHICH CONDITION (MATERIAL / CALLOUTS/ OR DETAILS) SHALL GOVERN. IF THE ARCHITECT IS NOT NOTIFIED OF CONFLICTS THEN THE MOST STRINGENT WILL BE USED AS DETERMINED BY THE ARCHITECT.

ALL BUILDING ELEMENTS SHALL BE INSTALLED STRAIGHT, LEVEL, PLUMB AND SQUARE. ALL GYPSUM WALL BOARD SHALL BE INSTALLED VERTICALLY W/ NO HORIZONTAL JOINTS.

DUE TO MATERIAL TOLERANCES THE GENERAL CONTRACTOR MUST VERIFY ALL DIMENSIONS WITH ACTUAL CONDITIONS ON THE SITE AND REPORT ANY DIFFERENCES TO THE ARCHITECT FOR INTERPRETATION AND RESOLUTION PRIOR TO COMMENCEMENT OF WORK.

BY OTHERS

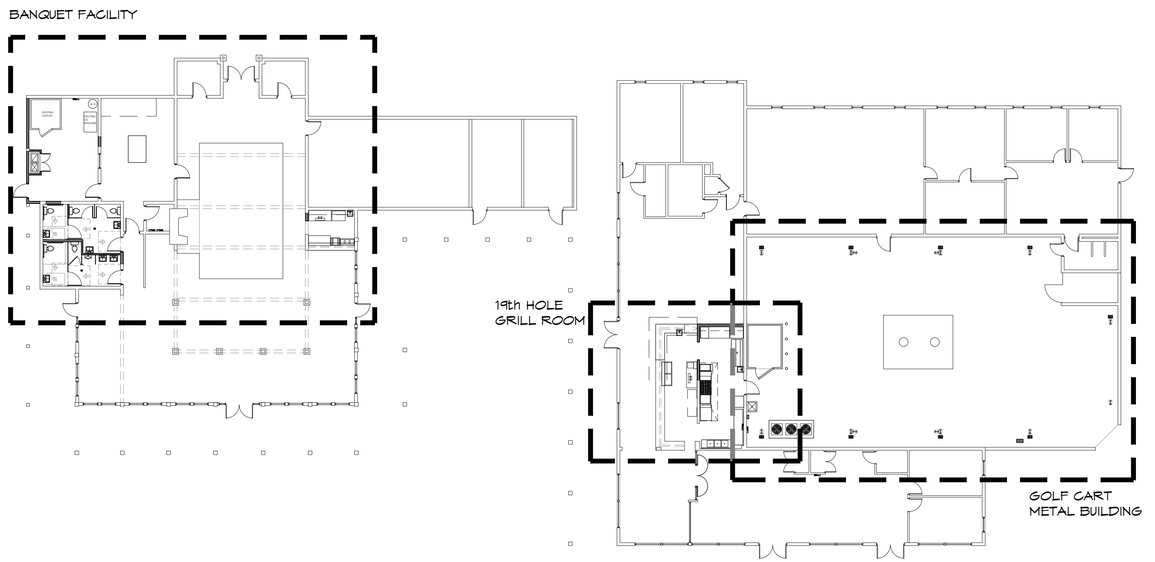
1) COMPONENT & CLADDING - MANUFACTURERS OF DOORS, WINDOWS, AND OTHER CLADDING COMPONENTS PROVIDE STANDARD SIGNED AND SEALED ENGINEERING CERTIFICATION FOR PRODUCT INSTALLATIONS TO MEET LOADS NOTED ON THE FLOOR PLAN.

2) SOIL TESTING SHALL BE COMPLETED AND PROVIDED TO THE ARCHITECT FOR REVIEW PRIOR TO THE START OF ANY WORK.

3) ENGINEERED MTL. BUILDING DESIGN SHALL BE PROVIDED TO THE ARCHITECT FOR REVIEW PRIOR TO THE START OF ANY WORK.

INDEX OF DRAWINGS

ARCHITECTURE LOCATION PLAN



ARCHITECTURE LOCATION PLAN
SCALE: 1/16" = 1'-0"

NORTH

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A NEW RENOVATION FOR:
CO OCALA MUNICIPAL GOLF CLUB
OCALA, FLORIDA

project no.
2136

by	date
JP/SG	11.30.21

sheet no.
A000

BID DOCUMENTS

1 - GENERAL

1.1. HE FOLLOWING SPECIFICATIONS ARE MINIMUM REQUIREMENTS TO SUPPLEMENT THE DRAWINGS.S

1.2. THIS SET OF PLANS HAS BEEN PREPARED TO COMPLY WITH THE APPLICABLE MINIMUM BUILDING CODES. ALL WORK SHALL BE IN ACCORDANCE WITH APPLICABLE NATIONAL AND LOCAL CODES AND CONVENTIONAL GUIDELINES, INCLUDING LATEST SUPPLEMENTAL REVISIONS.

1.3. ALL WORK SHALL BE PERFORMED IN THE BEST AND MOST PROFESSIONAL MANNER BY CRAFTSMEN SKILLED IN THEIR RESPECTIVE TRADES.

1.4. THESE PLANS MAY BE USED ONLY UNDER SUCH CONDITIONS IN WHICH ALL APPLICABLE SAFETY LAWS, RULES, AND REGULATIONS ARE BEING OBSERVED. COMPLIANCE WITH SUCH SAFETY LAWS, RULES, AND REGULATIONS IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR.

1.5. THE ARCHITECT SHALL BE PROVIDED WITH SHOP DRAWINGS AND/OR SAMPLES OF CUSTOM FABRICATED ITEMS PRIOR TO CONSTRUCTION. THE ARCHITECT SHALL BE CONSULTED FOR THE ITEMS NOT SHOWN IN THE DRAWINGS. SUBSTITUTIONS SHALL BE PERMITTED ONLY UPON WRITTEN CONSENT OF THE ARCHITECT.

1.6. WRITTEN DIMENSIONS TAKE PRECEDENCE OVER SCALED DIMENSIONS. LARGER SCALE DETAILS TAKE PRECEDENCE OVER SMALLER SCALE DETAILS.

1.7. THE CONTRACTOR SHALL VERIFY AND BE RESPONSIBLE FOR ALL DIMENSIONS AND CONDITIONS ON THE SITE. THE ARCHITECT SHALL BE NOTIFIED OF ANY AND ALL DISCREPANCIES.

1.8. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL PERMITS, FEES, APPROVALS, INSURANCE, AND TAXES NECESSARY TO THE CONSTRUCTION OF THIS PROJECT.

1.9. PROVIDE SEPARATE PERMITS AS REQUIRED BY THE MUNICIPALITY ISSUING THE GENERAL BUILDING PERMIT

1.10. DESIGN WAS BASED ON A SURVEY PREPARED BY A REGISTERED LAND SURVEYOR AND FURNISHED BY THE OWNER. ACCURACY OF SURVEY DATA IS THE OWNER'S RESPONSIBILITY.

1.11. GENERAL CONTRACTOR SHALL VERIFY WITH ALL UTILITY COMPANIES THE LOCATION OF ALL EXISTING ABOVE AND BELOW GROUND UTILITIES (GAS, ELECTRIC, PHONE, WATER, SEWER, ETC.) AND STAKE OUT IN THE FIELD ALL UTILITIES KNOWN AND ENCOUNTERED PRIOR TO PROCEEDING WITH ANY DEMOLITION / EXCAVATION WORK. OWNER SHALL NOT AUTHORIZE ANY IMPROVEMENTS AND/OR DEMOLITION WORK UNTIL PERMIT IS SECURED FROM AGENCIES HAVING JURISDICTION.

1.12. GENERAL CONTRACTOR SHALL FURNISH A COMPLETE SET OF DRAWINGS AND ADDENDUM'S TO ALL SUBCONTRACTORS ON THE JOB (ELECTRICAL, MECHANICAL, PLUMBING, INTERIOR PARTITIONS ETC.) AND COORDINATE THEIR WORK. ANY DISCREPANCIES AND/OR CONFLICTS IN THE DRAWINGS SHALL BE NOTIFIED TO THE ARCHITECT BEFORE PROCEEDING WITH ANY INSTALLATION. FAILURE TO DO SO WILL BE THE ENTIRE RESPONSIBILITY OF THE GENERAL CONTRACTOR. ANY COSTS ARISING TO CORRECT THE DISCREPANCY AND/OR CONFLICT SHALL BE BORNE BY THE RESPONSIBLE PARTY.

1.13. GENERAL CONTRACTOR SHALL COORDINATE ALL TRADES BEFORE PLACING ANY CONCRETE.

1.14. SCAFFOLDING AND REMOVAL OF FORMS SHALL BE PERFORMED BY THE GENERAL CONTRACTOR IN A SAFE MANNER, IN ACCORDANCE TO LOCAL AND FEDERAL CODES, AND THE ESTABLISHED ACCEPTABLE PRACTICES. THIS WORK IS THE RESPONSIBILITY OF THE GENERAL CONTRACTOR.

1.15. GENERAL CONTRACTOR SHALL COORDINATE THICKNESS OF PARTITIONS TO ACCOMMODATE MECHANICAL, PLUMBING, AND ELECTRICAL WORK. DIMENSIONS SHOWN ON PLANS ARE NOMINAL.

1.16. GENERAL CONTRACTOR SHALL PROVIDE CONTINUOUS CAULK AND SEALANT AROUND ALL EXTERIOR OPENINGS TO PREVENT WATER PENETRATION AND AIR LEAKAGE IN ACCORDANCE WITH THE FLORIDA BUILDING CODE.

1.17. FOR STANDARD CONSTRUCTION DETAILS NOT SHOWN ON THE DRAWINGS GENERAL CONTRACTOR SHALL CONSULT THE ARCHITECT AND/OR PROCEED IN ACCORDANCE WITH THE APPLICABLE CODES AND ESTABLISHED GOOD STANDARD BUILDING PRACTICES.

1.18. THE ARCHITECT MAKES NO GUARANTEE OR WARRANTY OF PRODUCTS, NAMES BY TRADE NAMES, MANUFACTURER OR OTHER REFERENCE IN THESE DOCUMENTS.

1.19. CONSTRUCTION SHALL PROCEED IN ACCORDANCE WITH THE OFFICIAL DRAWINGS APPROVED BY THE BUILDING OFFICIAL HAVING JURISDICTION. IT IS THE GENERAL CONTRACTOR'S RESPONSIBILITY TO FURNISH THE LATEST CORRECT SET OF DRAWINGS TO ALL SUB-CONTRACTORS. NO DEVIATION OF THE APPROVED SET OF DRAWINGS WILL BE MADE IN THE FIELD WITHOUT THE EXPRESSED WRITTEN CONSENT OF THE ARCHITECT AND BUILDING OFFICIAL. IN SUCH CASE THE ARCHITECT SHALL PREPARE A REVISION IN ACCORDANCE WITH THE CHANGE. APPROVAL FROM THE BUILDING OFFICIAL SHALL BE OBTAINED BY THE CONTRACTOR BEFORE PROCEEDING WITH ANY WORK.

1.20. A FULL-SCALE COMPLETE SET OF DRAWINGS SHALL BE KEPT ON SITE AT ALL TIMES AND SHALL BE AVAILABLE FOR REFERENCE TO ALL CONTRACTORS, SUB-CONTRACTORS AND CRAFTSMEN ON THE JOB. ANY REVISION DURING CONSTRUCTION SHALL BE REPORTED TO THE ARCHITECT FOR APPROVAL AND DOCUMENTED ON THE DRAWING SET.

1.21. ALL DEBRIS SHOULD BE REMOVED FROM PREMISES AND ALL AREAS SHALL BE LEFT IN CLEAN (BROOM) CONDITIONS AT ALL TIMES.

1.22. THE CONTRACTOR SHALL BE RESPONSIBLE FOR AND SHALL REPLACE OR REMEDY ANY FAULTY, IMPROPER, OR INFERIOR MATERIAL OR WORKMANSHIP OR ANY DAMAGE WHICH APPEARS WITHIN ONE (1) YEAR AFTER THE COMPLETION AND ACCEPTANCE OF THEIR WORK BY THE OWNER AND ISSUANCE OF A COUNTY CERTIFICATE OF COMPLETION.

1.23. THIS ARCHITECT AND HIS CONSULTANTS WILL NOT HAVE CONTROL OF AND WILL NOT BE RESPONSIBLE FOR CONSTRUCITON MEANS, METHODS, SEQUENCES, OR FOR SAFETY PRECAUTIONS IN CONNECTION WITH THE WORK ON THIS PROJECT OR FOR THE ACTS OR OMMISIONS OF THE CONTRACTOR, SUBCONTRACTOR, OR ANY OTHER PERSONS PERFORMING ANY OF THE WORK ON THIS SITE.

1.24. IF PROJECT IS LOCATED IN FLOODPLAIN CONTRACTOR SHALL SUBMIT ELEVATION CERTIFICATE TO FLOOD PLAIN ADMINISTRATOR UPON PLACEMENT OF THE LOWEST FLOOR AND PRIOR TO FINAL BUILDING INSPECTION.

1.25. PROVIDE CONSTRUCTION CONFORMING TO THE 20172020 FLORIDA BUILDING CODE WITH THE LATEST STATE AMENDMENTS. REFERENCE TO OTHER STANDARDS, SPECIFICATIONS, OR CODES MEANS THE LATEST STANDARD OR CODE PUBLISHED AND ADOPTED TO COINCIDE WITH DATE OF PLANS.

1.26. THE STRUCTURAL GENERAL NOTES APPLY EXCEPT WHERE INDICATED OTHERWISE ON THE DRAWINGS OR IN THE SPECIFICATIONS. A DETAIL SHOWN FOR ONE CONDITION APPLIES FOR ALL LIKE OR SIMILAR CONDITIONS EVEN THOUGH NOT SPECIFICALLY INDICATED ON THE DRAWINGS.

1.27. VERIFY ALL EXISTING CONDITIONS, DIMENSIONS, AND ELEVATIONS BEFORE STARTING WORK. NOTIFY THE ARCHITECT AND STRUCTURAL ENGINEER OF RECORD IN WRITING OF ANY DISCREPANCY.

1.28. DO NOT SCALE DRAWINGS.

1.29. THE STRUCTURE IS ABLE TO RESIST DESIGN LOADS ONLY WHEN STRUCTURAL WORK IS COMPLETE. DURING CONSTRUCTION, THE STRUCTURE IS NOT SELF-SUPPORTING. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR THE DESIGN, ADEQUACY, AND SAFETY OF ERECTION BRACING, SHORING, TEMPORARY SUPPORTS, AND ALL OTHER MEANS, METHODS, TECHNIQUES, SEQUENCES, AND PROCEDURES OF CONSTRUCTION.

1.30. COORDINATE THE STRUCTURAL CONTRACT DOCUMENTS WITH DOCUMENTS FROM ARCHITECTURAL, MECHANICAL, ELECTRICAL, PLUMBING, CIVIL, AND ALL OTHER CONSULTANTS. NOTIFY THE ARCHITECT AND STRUCTURAL ENGINEER OF RECORD IN WRITING OF ANY CONFLICT AND/OR OMISSION.

1.31. COORDINATE AND VERIFY FLOOR AND ROOF OPENING SIZES AND LOCATIONS WITH ARCHITECTURAL, MECHANICAL, PLUMBING, AND ELECTRICAL DRAWINGS. FOR ADDITIONAL OPENINGS NOT SHOWN ON THE STRUCTURAL DRAWINGS REFER TO THE ARCHITECTURAL AND MECHANICAL DRAWINGS.

1.32. NO STRUCTURAL MEMBER OR COMPONENT SHALL BE CUT, NOTCHED, OR OTHERWISE ALTERED UNLESS APPROVED IN WRITING BY THE STRUCTURAL ENGINEER OF RECORD. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY AND ALL COSTS INCURRED BY THE ARCHITECT AND ENGINEER OF RECORD FOR REVIEW OF ANY SUCH DEVIATIONS.

1.33. REVIEW OF THE SUBMITTALS AND/OR SHOP DRAWINGS BY THE STRUCTURAL ENGINEER OF RECORD IS ONLY FOR GENERAL CONFORMANCE WITH THE CONTRACT DOCUMENTS AND DOES NOT RELIEVE THE CONTRACTOR OF THE RESPONSIBILITY TO REVIEW AND CHECK SHOP DRAWINGS BEFORE SUBMITTAL TO THE STRUCTURAL ENGINEER OF RECORD. THE CONTRACTOR MUST REVIEW AND STAMP ALL SUBMITTALS PRIOR TO SUBMISSION. THE CONTRACTOR REMAINS SOLELY RESPONSIBLE FOR ERRORS AND OMISSIONS ASSOCIATED WITH THE PREPARATION OF SHOP DRAWINGS AS THEY PERTAIN TO MEMBER SIZES, DETAILS, AND DIMENSIONS SPECIFIED IN THE CONTRACT DOCUMENTS. DO NOT BEGIN FABRICATION UNTIL SHOP DRAWINGS ARE COMPLETED AND REVIEWED BY THE STRUCTURAL ENGINEER OF RECORD.

1.34. ELECTRONIC DRAWING FILES OR MODEL FILES WILL NOT BE PROVIDED TO THE CONTRACTOR OR SUBCONTRACTORS, UNLESS AGREED TO OTHERWISE FOR ADDITIONAL COSTS.

1.35. DO NOT MAKE SHOP DRAWINGS USING REPRODUCTIONS OF THE CONTRACT DOCUMENTS OR REFERENCING THE CONTRACT DOCUMENTS.

1.36. PROVIDE AN ALLOWANCE OF 10% OF ALL STRUCTURAL MATERIALS TO BE FABRICATED AND PLACED DURING PROGRESS OF WORK AS MAY BE DIRECTED BY THE STRUCTURAL ENGINEER OF RECORD IN ADDITION TO ALL STRUCTURAL MATERIALS INDICATED ON THE CONTRACT DOCUMENTS. CREDIT ANY UNUSED QUANTITY TO THE OWNER AT THE END OF THE PROJECT.

1.37. ALL STRUCTURES REQUIRE PERIODIC MAINTENANCE TO MEET OR EXCEED LIFESPAN AND TO ENSURE STRUCTURAL INTEGRITY FROM EXPOSURE TO THE ENVIRONMENT. A PLANNED PROGRAM OF MAINTENANCE SHALL BE ESTABLISHED BY THE OWNER. THIS PROGRAM SHALL INCLUDE ITEMS SUCH AS, BUT NOT LIMITED TO, PAINTING OF STRUCTURAL STEEL, PROTECTIVE COATINGS FOR CONCRETE, SEALANTS, CAULKED JOINTS, SPALLS AND CRACKS IN CONCRETE, AND PRESSURE WASHING OF EXPOSED STRUCTURAL ELEMENTS EXPOSED TO SALT ENVIRONMENT OR OTHER HARSH CHEMICALS.

2 - SITE WORK

2.1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COMPLIANCE WITH ALL SETBACK AND EASEMENT REQUIREMENTS.

2.2. THE CONTRACTOR IS CAUTIONED TO VERIFY ANY EXISTING CONDITIONS WHICH MAY BE BELOW GROUND OR A PART OF THE PREVIOUS STRUCTURE WHICH SHALL INTERFERE WITH THE CONSTRUCTION AS INDICATED IN THE DRAWINGS AND DOCUMENTS. NO ADDITIONAL COMPENSATION WILL BE APPROVED BY THE OWNER DUE TO FIELD CONDITIONS WHICH ARE NOT NOTED ON THE DRAWINGS, BUT WHICH COULD HAVE BEEN OBSERVED OR DETERMINED BY SITE VISITATION AND VERIFICATION.

2.3. ELECTRICAL POWER, TELEPHONE, CCTV, WATER AND SEWER SHALL BE RUN UNDERGROUND. THE CONTRACTOR SHALL INSTALL FIBER OPTIC AND CABLE TELEVISION CONDUIT IN COORDINATION WITH THE UTILITY COMPANIES.

2.4. THE CONTRACTOR SHALL REMOVE ALL CONSTRUCTION DEBRIS AND PROVIDE AND INSTALL CLEAN FILL AS SHOWN ON THE SITE PLAN, LEAVING THE SITE UNIFORMLY AND FINELY GRADED.

2.5. THE BASE FOR EXTERIOR PAVED SURFACES SHALL BE IN ACCORDANCE WITH THE ARCHITECTURAL AND LANDSCAPE DRAWINGS. REFER TO DETAILS FOR INSTALLATION OR PAVERS. EXTERIOR PAVEMENT SHALL SLOPE UNIFORMLY AT 1/8" PER FOOT AWAY FROM DOORS OR AS NOTED IN PLANS.

2.6. ALL UNCEMENTED PAVERS AND STONES SHALL BE THOROUGHLY EMBEDDED IN THE GROUND TO PREVENT DISLODGING BY WIND.

2.7. THE CONTRACTOR IS RESPONSIBLE FOR THE DEMOLITION, CLEARING, GRUBBING, GRADING, AND PREPARATION FOR WORK FOR ALL AREAS IDENTIFIED FOR SUCH WORK ON THE DEMOLITION PLAN.

2.8. THE CONTRACTOR IS RESPONSIBLE FOR THE DISPOSAL OF ALL DEMOLISHED ELEMENTS INCLUDING BUT NOT LIMITED TO EXISTING HOUSE, CONCRETE PATIOS, FOUNDATIONS, SEPTIC TANK, AND LEECH FIELD.

2.9. REFER TO DEMOLITION AND SITE PLAN FOR THE RELOCATION OF EXISTING TREES, FOR THE REMOVAL AND DISPOSAL OF EXISTING TREES, AND OTHER EXISTING SITE ELEMENTS.

2.10. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE COMPLETE SECURITY OF TH SITE WHILE JOB IS IN PROGRESS AND UNTIL JOB IS COMPLETE.

2.11. WHEN APPLICABLE, PROVIDE SEPARATE PERMIT FOR SEPTIC TANK AND WELL

3 - CONCRETE / FOUNDATIONS

3.1. ALL INSTALLERS SHALL COMPLY WITH LOCAL AND STATE BUILDING CODES IF MORE STRINGENT THAN THE FOLLOWING PROVISIONS.

3.2. STRUCTURAL SHALL BE WORKED TOGETHER WITH ARCHITECTURAL, AIR CONDITIONING, MECHANICAL AND ELECTRICAL DRAWINGS TO LOCATE DEPRESSED SLABS, DRAINS, OUTLETS, RECESSES, OPENINGS, REGLETS, SLEEVES, ETC. DISCREPANCIES SHALL BE CONSULTED WITH THE ARCHITECT BEFORE PROCEEDING WITH THE WORK.

3.3. CONCRETE SLABS ON FILL SHALL BE POURED ON 10 MIL. VISQUEEN VAPOR BARRIER ON TOP OF SAND THOROUGHLY MOISTENED IMMEDIATELY BEFORE CONCRETE IS POURED.

3.4. CONCRETE SLABS SHALL BE FREE OF GROOVES AND DEPRESSIONS. EXTERIOR SLABS SHALL BE LIGHT BROOM FINISH; INTERIOR SLABS SHALL BE STEEL TROWEL FINISH UNLESS NOTED OTHERWISE.

3.5. ADD MIXTURES SHALL NOT BE PERMITTED WITHOUT WRITTEN CONSENT FROM THE STRUCTURAL ENGINEER OF RECORD. FORM WORK SHALL BE CLEAN AND FREE FROM DEFECTS.

3.6. POSITION, SUPPORT, AND SECURE REINFORCEMENT AGAINST DISPLACEMENT. SUPPORT WITH METAL CHAIRS, RUNNERS, BOLSTERS, SPACERS, AND HANGERS AS REQUIRED.

3.7. SET AND BUILD INTO WORK ANCHORAGE DEVICES AND OTHER EMBEDDED ITEMS REQUIRED FOR WORK ATTACHED TO OR SUPPORTED BY CAST IN PLACE CONCRETE.

3.8. CONSOLIDATE CONCRETE USING MECHANICAL VIBRATING EQUIPMENT WITH HAND RODDING AND TAMPING, SO THAT CONCRETE IS WORKED AROUND REINFORCEMENT.

~~3.4. PRECAST STONE~~

~~A. SHOP DRAWINGS: SUBMIT CUTTING AND SETTING DRAWINGS INDICATING SIZES, DIMENSIONS, SECTIONS, AND PROFILES OF STONE; ARRANGEMENT AND PROVISIONS FOR JOINTING, SUPPORTING, ANCHORING, AND BONDING STONEWORK; AND DETAILS SHOWING RELATIONSHIPS WITH, ATTACHMENT TO, AND RECEPTION OF, RELATED WORK.~~

~~B. SAMPLES: REPRESENTATIVE SAMPLES OF STONE SHALL BE SUBMITTED FOR ARCHITECTS APPROVAL~~

3.1. THESE NOTES AND SPECIFICATIONS ARE SUPPLEMENTED BY SPECIFIC STRUCTURAL NOTES IN THE STRUCTURAL DRAWINGS.

3.2. THE DESIGN OF FOUNDATIONS IN THE ABSENCE OF ANY GEOTECHNICAL RECOMMENDATIONS FOR RETAINING WALLS, AND SLABS-ON-GRADE IS BASED ON THE FOLLOWING PRESUMED CRITERIA PER THE 2020 FLORIDA BUILDING CODE RESIDENTIAL 7TH EDITION TABLE R401.4.1: ALLOWABLE SOIL BEARING CAPACITY= 2000 PSF
REDESIGN OF FOUNDATIONS MAY BE REQUIRED IF THE ACTUAL CONDITIONS ARE DIFFERENT THAN THE VALUES LISTED ABOVE. THE FOLLOWING CONDITIONS COULD ALSO RESULT IN REDESIGN OF FOUNDATIONS: PRESENCE OF EXPANSIVE SOILS, HIGH WATER TABLE, POTENTIAL FOR LARGE SETTLEMENTS, OR ANY OTHER RECOMMENDATIONS STATED BY A GEOTECHNICAL ENGINEER.

3.3. WHERE THE BUILDING OFFICIAL DETERMINES THAT IN-PLACE SOILS WITH AN ALLOWABLE BEARING CAPACITY OF LESS THAN 1,500 PSF ARE LIKELY TO BE PRESENT AT THE SITE, THEN A GEOTECHNICAL ENGINEER MUST VERIFY THE CONDITION AND/OR ADEQUACY OF ALL SUBGRADES, FILLS, AND BACKFILLS PRIOR TO THE PLACEMENT OF FOUNDATIONS, FOOTINGS, SLABS, WALLS, ETC.

3.4. IF ANY DISCREPANCY APPEARS BETWEEN EXISTING FOUNDATIONS AND THE SPECIFIED DESIGN, NOTIFY THE ARCHITECT PRIOR TO THE COMMENCEMENT OF WORK IN THAT AREA.

3.5. COORDINATE TOP OF FOOTING ELEVATIONS WITH THE REQUIREMENTS OF OTHER TRADES INCLUDING BUT NOT LIMITED TO PLUMBING, MECHANICAL, OR ELECTRICAL.

3.6. PLACE ALL COLUMN FOOTINGS AND WALL FOOTINGS MONOLITHICALLY WITH ADJACENT FOOTINGS AT THE SAME ELEVATION.

3.7. ALL FOOTINGS MUST BEAR ON ORIGINAL UNDISTURBED SOIL WHERE POSSIBLE.

3.8. EXTERIOR FOOTINGS SHALL BE PLACED NOT LESS THAN 12 INCHES BELOW THE FINISHED GRADE OF GROUND SURFACE IN ACCORDANCE WITH 2020 FLORIDA BUILDING CODE RESIDENTIAL 7TH EDITION SECTION R403.1.4.

3.9. REMOVE ALL ORGANIC SOILS AND REPLACE WITH CLEAN STRUCTURAL FILL AT THE DIRECTION OF THE GEOTECHNICAL ENGINEER. PLACE FILL SOILS IN 10" MAXIMUM (LOOSE) LIFTS AT MOISTURE CONTENTS WITHIN 4% OF OPTIMUM MOISTURE CONTENT. COMPACT ALL FILL WITHIN 10'-0" OF THE BUILDING LIMIT TO THE FOLLOWING MINIMUM DENSITIES:

- WITHIN 18" OF FINISHED GRADE: 98% OF MAXIMUM STANDARD PROCTOR
- BELOW 18" OF FINISHED GRADE: 95% OF MAXIMUM STANDARD PROCTOR

3.1. FIELD DENSITY TESTS MUST BE MADE AS DESCRIBED BY THE GEOTECHNICAL ENGINEER TO VERIFY ADEQUATE COMPACTION AND AN ALLOWABLE DESIGN BEARING PRESSURE OF 2000 PSF MINIMUM.

3.2. SIDES OF FOUNDATIONS MUST BE FORMED UNLESS CONDITIONS PERMIT EARTH FORMING. FOUNDATIONS PLACED AGAINST THE EARTH REQUIRE THE FOLLOWING PRECAUTIONS: SLOPE SIDES OF EXCAVATIONS AS APPROVED BY THE GEOTECHNICAL ENGINEER AND CLEAN UP SLOUGHING BEFORE AND DURING CONCRETE PLACEMENT.

3.21 WHERE FOOTING STEPS ARE NECESSARY, SLOPE NO STEEPER THAN ONE VERTICAL TO TWO HORIZONTALS.

3.22. UNLESS NOTED OTHERWISE, PLACE ALL SLABS ON GRADE ON A 10-MIL POLYETHYLENE VAPOR RETARDER OVER A PROPERLY COMPACTED SUBGRADE. LAP JOINTS OF VAPOR RETARDER A MINIMUM OF 6 INCHES AND SEAL WATERTIGHT BY TAPING EDGES AND ENDS. ALL PUNCTURES IN THE VAPOR RETARDER SHALL BE REPAIRED PER MANUFACTURER'S WRITTEN INSTRUCTIONS.

3.23. REINFORCED CONCRETE

A. PROVIDE REINFORCED CONCRETE CONFORMING TO THE FOLLOWING STANDARDS:

- ACI 301-16, SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS
- ACI 318-19, BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE
- ACI 302.1R-15, GUIDE FOR CONCRETE FLOOR AND SLAB CONSTRUCTION
- ACI 360R-10, GUIDE TO DESIGN OF SLABS-ON-GROUND

B. ALL CONCRETE SHALL BE NORMAL WEIGHT 3000 PSI COMPRESSIVE STRENGTH AT 28 DAYS UNLESS NOTED OTHERWISE. PROVIDE CONCRETE WITH MAXIMUM WATER-TO-CEMENTITIOUS MATERIAL MATERIALS RATIO OF 0.50.

C. UNLESS NOTED OTHERWISE, PROVIDE CONCRETE WITH THE FOLLOWING MINIMUM EXPOSURE CLASSES, TYPE, MINIMUM 28-DAY COMPRESSIVE STRENGTHS, AND MAXIMUM WATER-TO-CEMENTITIOUS MATERIALS RATIO:

LOCATION	EXPOSURE CLASS	TYPE	STRENGTH	W/CM
FOUNDATIONS	F0 S0 P0 C1	NORMAL WEIGHT	3000 PSI	0.50
EXT. SLABS ON GRAD	EF3 S0 P0 C1	NORMAL WEIGHT	5000 PSI	0.40
INT. SLABS ON GRAD	EF0 S0 P0 C0	NORMAL WEIGHT	3000 PSI	0.50

3 - CONCRETE / FOUNDATIONS (CONT.)

D. FOR EXPOSURE CLASSES F1, F2, AND F3, PROVIDE ENTRAINED AIR BY VOLUME IN CONCRETE BASED ON ACI 318 TABLE 4.4.1, SHOWN BELOW:

NOMINAL MAXIMUM AGGREGATE SIZE (INCHES)	EXPOSURE CLASS F1	EXPOSURE CLASS F2 AND F3
3/8	6	7.5
3/4	5.5	7
3/4	5	6
1	4.5	6
1-1/2	4.5	5.5
2	4	5
3	3.5	4.5

E. FULLY DOCUMENT AND SUBMIT FOR REVIEW THE PROPOSED MATERIALS AND MIX DESIGN FOR ALL CONCRETE. CONCRETE MIX DESIGNS SHALL INCLUDE A WRITTEN DESCRIPTION INDICATING WHERE EACH PARTICULAR MIX IS TO BE PLACED WITHIN THE STRUCTURE. MIX SHALL MEET THE REQUIREMENT OF ASTM C33 FOR COARSE AGGREGATE. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING THE REQUIRED DESIGN STRENGTH. ALL CONCRETE TEST DATA MUST BE AVAILABLE AT THE JOB SITE. CONCRETE SHALL BE PLACED AND CURED ACCORDING TO ACI STANDARDS AND SPECIFICATIONS.

F. THE USE OF CALCIUM CHLORIDE, CHLORIDE IONS, OR OTHER SALTS IS NOT PERMITTED.

G. PLACE CONCRETE AT A SLUMP OF 5" ± 1".

H. UNLESS NOTED OTHERWISE, PROVIDE CONSTRUCTION OR CONTRACTION JOINTS IN SLABS-ON-GRADE SUCH THAT THE MAXIMUM AREA BETWEEN JOINTS DOES NOT EXCEED 144 SQUARE FEET FOR EXTERIOR SLABS AND 225 SQUARE FEET FOR INTERIOR SLABS WITH THE LENGTH NOT EXCEEDINGLY TWICE THE WIDTH.

I. THE LOCATION OF CONSTRUCTION JOINTS REQUIRES THE APPROVAL OF THE STRUCTURAL ENGINEER OF RECORD. UNLESS NOTED OTHERWISE, THOROUGHLY ROUGHEN BY MECHANICAL MEANS AND CLEAN CONSTRUCTION JOINTS.

J. CHAMFER OR ROUND ALL EXPOSED CORNERS A MINIMUM OF 3/4".

K. DETAIL CONCRETE REINFORCEMENT ACCORDING TO ACI SP-66 DETAILING MANUAL. SUBMIT SHOP DRAWINGS FOR APPROVAL, SHOWING ALL FABRICATION DIMENSIONS AND LOCATIONS FOR PLACING CONCRETE REINFORCING AND ACCESSORIES. DO NOT BEGIN FABRICATION UNTIL SHOP DRAWINGS ARE COMPLETED AND REVIEWED BY THE STRUCTURAL ENGINEER OF RECORD. UNLESS SPECIFICALLY APPROVED OTHERWISE, DETAIL ALL CONCRETE WALLS AND BEAMS IN ELEVATION.

L. UNLESS NOTED OTHERWISE, PROVIDE REINFORCING STEEL CONFORMING TO ASTM A615, GRADE 60.

M. PROVIDE WELDED WIRE FABRIC MESH IN FLAT SHEETS CONFORMING TO ASTM A1064. ROLLS ARE NOT PERMITTED. LAP WELDED WIRE FABRIC A MINIMUM OF ONE SPACE PLUS 2" AT EACH SPLICE. INSTALL WELDED WIRE FABRIC ON BRICKS OR BOLSTERS AT MID DEPTH OF SLAB WITH SPACING OF SUPPORTS NOT EXCEEDING 24" ON CENTER.

N. FIBER REINFORCING MAY BE SUBSTITUTED FOR WELDED WIRE FABRIC IN SLABS-ON-GRADE WITH THE APPROVAL OF THE STRUCTURAL ENGINEER OF RECORD. PROVIDE MACRO FIBER REINFORCING CONFORMING TO ASTM C1116, TYPE III. USE STRUX 90/40, FORTA FERRO, OR FIBERMESH 650; 100% VIRGIN POLYPROPYLENE FIBRILLATED FIBERS AS DIRECTED BY THE FIBER REINFORCING MANUFACTURER WITH APPROVAL OF THE STRUCTURAL ENGINEER OF RECORD.

O. TIE ALL REINFORCING STEEL AND EMBEDDED ITEMS SECURELY IN PLACE PRIOR TO PLACING CONCRETE. PROVIDE SUFFICIENT SUPPORTS TO MAINTAIN THE POSITION OF THE REINFORCEMENT WITHIN SPECIFIED TOLERANCES DURING ALL CONSTRUCTION ACTIVITIES. CAST-IN-PLACE ANCHORS AND EMBEDDED ITEMS SHALL HAVE CONCRETE CONSOLIDATED ALL AROUND.

P. PROVIDE CORNER BARS AT ALL CORNERS AND INTERSECTIONS OF ALL FOOTINGS, BEAMS, AND WALLS.

Q. LAP CONCRETE REINFORCING AS SHOWN IN THE "CONCRETE LAP SPLICE LENGTH SCHEDULE."

R. UNLESS NOTED OTHERWISE, PROVIDE THE FOLLOWING CONCRETE COVER ON ALL REINFORCING STEEL:

CONCRETE AGAINST EARTH (NOT FORMED):	3"
FORMED CONCRETE EXPOSED TO EARTH OR WEATHER	
#6 THROUGH #18 BARS:	2"
#5 BARS AND SMALLER:	1-1/2"
FORMED CONCRETE NOT EXPOSED TO EARTH OR WEATHER	
SLABS, JOISTS, AND WALLS:	3/4"
BEAM STIRRUPS AND COLUMNS TIES:	1-1/2"

S. DO NOT PLACE PIPES OR DUCTS WITH A MAXIMUM DIMENSION EXCEEDING ONE-THIRD THE SLAB OR WALL THICKNESS WITHIN THE SLAB OR WALL UNLESS SPECIFICALLY SHOWN AND DETAILED ON THE STRUCTURAL DRAWINGS. PLUMBING SLEEVES SHALL BE SPACED A MINIMUM OF THREE DIAMETERS CENTER TO CENTER OR 6" CLEAR BETWEEN

T. DO NOT WELD OR TACK WELD REINFORCING STEEL UNLESS APPROVED OR DIRECTED BY THE STRUCTURAL ENGINEER OF RECORD. PROVIDE REINFORCING STEEL CONFORMING TO ASTM A706, GRADE 60 WHERE WELDING IS APPROVED OR DIRECTED.

4 - MASONRY

4.1. ALL WORK SHALL BE IN ACCORDANCE WITH APPLICABLE NATIONAL AND LOCAL CODES AND CONVENTIONAL GUIDELINES, INCLUDING THE LATEST SUPPLEMENTAL "HURRICANE" CODE REQUIREMENTS FOR MIAMI-DADE COUNTY.

4.2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR QUALITY CONTROL OF MASONRY CONSTRUCTION WHICH SHALL BE PLUMB AND SQUARE AND SHALL MAINTAIN FULL-TIME CONTINUOUS SUPERVISION OF MASONRY WORK, INCLUDING (BUT NOT LIMITED TO), DOWEL SETTING, BLOCK LAYING, BAR SETTING, AND GROUTING.

4.3. CONCRETE FILLED CELLS SHALL BE AS MARKED ON THE DRAWINGS AND ON BOTH SIDES OF EACH OPENING. FILLED CELLS SHALL HAVE INSPECTION OPENINGS AT THE BASE OF MASONRY UNITS.

4.4. PROVIDE SPECIAL SHAPES AS REQUIRED FOR LINTELS, CORNERS, JAMBS, SASH, CONTROL JOINTS, HEADERS AND BOND BEAMS.

4.5. LAY OUT WALLS IN ADVANCE FOR ACCURATE SPACING OF SURFACE BOND PATTERNS WITH UNIFORM JOINT WIDTH, AND FOR ACCURATELY LOCATING OPENINGS, MOVEMENT TYPE JOINTS, RETURNS AND OFFSETS.

4.6. INSTALL EMBEDDED FLASHING AND WEEP HOLES AT SHELF ANGLES, LINTELS, LEDGES AND OTHER OBSTRUCTIONS TO THE DOWNWARD FLOW OF WATER.

4.7. PROVIDE CONCRETE MASONRY CONFORMING TO THE FOLLOWING STANDARDS:

4.8. TMS 402-16, BUILDING CODE REQUIREMENTS FOR MASONRY STRUCTURES

4.9. TMS 602-16, SPECIFICATIONS FOR MASONRY STRUCTURES

4.10. LOAD BEARING MASONRY WALLS ARE DESIGNED IN ACCORDANCE WITH CHAPTERS 1 AND 2 OF ACI 530.

4.11. PROVIDE BRICK VENEER IN ACCORDANCE WITH CHAPTER 6 OF ACI 530.

4.12. PROVIDE STANDARD, HOLLOW, LOAD BEARING CONCRETE MASONRY UNITS CONFORMING TO ASTM C90 WITH A COMPRESSIVE STRENGTH OF MASONRY (F'M) OF -2000 PSI AND A NET AREA COMPRESSIVE STRENGTH OF 2000 PSI ON THE NET CROSS-SECTIONAL AREA OF CMU DETERMINED IN ACCORDANCE WITH ASTM C140.

4.13. PROVIDE MORTAR CONFORMING TO ASTM C 270, TYPE M OR S. STANDARD MORTAR BED JOINT THICKNESS IS 3/8" AND MUST NOT EXCEED 5/8".

4.14. UNLESS NOTED OTHERWISE, PROVIDE GROUT FOR REINFORCED MASONRY CONFORMING TO ASTM C476 WITH MINIMUM COMPRESSIVE STRENGTH OF 3000 PSI AND HAVE A SLUMP BETWEEN 8"-11" AND A MAXIMUM WATER/CEMENT RATIO OF 0.55 WITH 3/8" MAXIMUM AGGREGATE. PEA GRAVEL CONCRETE WITH A MINIMUM COMPRESSIVE STRENGTH OF 3000 PSI MAY BE SUBSTITUTED FOR GROUT ONLY WITH APPROVAL OF THE STRUCTURAL ENGINEER OF RECORD.

4.15. UNLESS NOTED OTHERWISE, LAY MASONRY UNITS IN RUNNING BOND WITH FULL BED JOINTS AROUND CELLS.

4.16. PROVIDE LADDER TYPE HORIZONTAL JOINT REINFORCING CONFORMING TO ASTM A1064. UNLESS NOTED OTHERWISE, PLACE 9 GAGE OR HEAVIER, ZINC COATED LADDER TYPE HORIZONTAL JOINT REINFORCING AT 16" ON CENTER STARTING AT FIRST COURSE ABOVE FOUNDATION. LAP HORIZONTAL JOINT REINFORCING MINIMUM 12". USE PREFABRICATED 'L'S AND 'T'S AT CORNERS AND INTERSECTIONS.

4.17. FOR GROUTED WALLS, THE MAXIMUM HEIGHT OF GROUT LIFTS MUST NOT EXCEED 5'-0". STOP GROUT 1-1/2" MINIMUM BELOW THE TOP OF UNIT IF GROUTING IS STOPPED FOR MORE THAN ONE HOUR. GROUT ALL CELLS AT OR BELOW GRADE AND ALL VERTICAL CELLS CONTAINING REBAR REINFORCING. DO NOT GROUT UNTIL MORTAR HAS SET SUFFICIENTLY TO WITHSTAND THE PRESSURE OF GROUTING AND WAIT NOT LESS THAN 24 HOURS. THE MAXIMUM UN-GROUTED HEIGHT OF 8" OR THICKER CMU WALLS PRIOR TO GROUTING MUST NOT EXCEED 12'-0". REFER TO TABLE 7 OF TMS 602 FOR THE MAXIMUM UN-GROUTED HEIGHT OF CMU WALLS THINNER THAN 8". CONSOLIDATE AND RECONSOLIDATE GROUT IN ACCORDANCE WITH PARAGRAPH 3.5.E OF TMS602. WALLS HIGHER THAN 5'-0" MUST HAVE INSPECTION HOLES AT THE BASE OF THE WALL.

4.18. PROVIDE STANDARD HOOKED DOWELS EMBEDDED IN FOUNDATIONS TO MATCH VERTICAL REINFORCING BARS. LAP VERTICAL CMU WALL REINFORCING AS SHOWN IN THE "CMU LAP SPLICE LENGTH SCHEDULE."

4.19. PROVIDE VERTICAL CONTROL JOINTS IN ALL MASONRY WALLS NOT RETAINING EARTH. UNLESS NOTED OTHERWISE ON THE ARCHITECTURAL DRAWINGS, PLACE VERTICAL CONTROL JOINTS AT MAXIMUM HORIZONTAL SPACING OF 25'-0" AND NOT MORE THAN 12'-6" FROM CORNERS IN A STRAIGHT RUN OF CMU WALL. HORIZONTAL WALL REINFORCING SHALL BE STOPPED EACH SIDE OF CONTROL JOINTS.

4 - MASONRY (CONT.)

4.20. UNLESS NOTED OTHERWISE, PROVIDE MINIMUM (1) #5 VERTICAL BAR, GROUTED FULL HEIGHT, AT EACH SIDE OF OPENINGS AND AT ALL CORNERS AND ENDS OF WALLS, INCLUDING BOTH SIDES AT ENDS OF WALL PANELS AT VERTICAL CONTROL JOINTS.

4.21. PROVIDE STANDARD HOOKS AT ENDS OF ALL BARS WHICH TERMINATE IN TIE BEAMS OR BOND BEAMS. USE METAL LATH, MORTAR, OR SPECIAL UNITS TO CONFINE CONCRETE AND GROUT TO AREA AS REQUIRED (USE OF SHEET METAL OR FELT IS PROHIBITED).

4.22. UNLESS NOTED OTHERWISE, ANCHOR SIDES AND TOPS OF MASONRY WALL PANELS TO THE STRUCTURE BY DOVETAIL ANCHORS, METAL STRAPS, OR EQUIVALENT AT 16" ON CENTER MAXIMUM.

5 - METAL / STEEL

5.1. SUBMIT SHOP DRAWINGS AND SECTIONAL SAMPLES FOR ALL RAILING AND DECORATIVE BRACKETS. FINISH TO BE PAINTED. (COLOR BY ARCHITECT.)

5.2. THRESHOLD @ EXTERIOR DOORS TO BE BY DOOR MANUFACTURER.

5.3. SPACE METAL STUDS A MAXIMUM OF 24" O.C. UNLESS OTHERWISE NOTED. ALIGN RUNNER TRACKS ACCURATELY TO THE PARTITION LAYOUT AT BOTH FLOOR AND CEILING. SECURE STUDS TO STRUCTURAL ELEMENTS AT ALL LOCATIONS. PROVIDE ADDITIONAL FRAMING AND BLOCKING AS REQUIRED TO SUPPORT WALLBOARD AT OPENINGS AND CUTOUTS, AND ALSO TO ANCHOR EQUIPMENT, SHELVING, FIXTURES AND FITTINGS SHOWN ON PLAN.

5.4. GALVANIZED STUDS @ ALL INTERIOR NON-BEARING PARTITIONS AS SHOWN. PARTITION WALLS SUPPORTING PLUMBING FIXTURES OR CABINETRY SHALL BE DOUBLED. 2X4 HORIZONTAL WOOD MEMBERS SECURELY FASTENED BETWEEN 20 GAUGE MIN. GALVANIZED METAL STUDS.

5.5. ALL INTERIOR PARTITIONS SHALL BE MADE OF 20 GAUGE METAL STUDS AT 16" O.C. UNLESS OTHERWISE NOTED. USE 20 GAUGE METAL STUDS 16" O.C. AT KITCHEN AND CLOSETS. CONSULT DRAWINGS FOR PARTITION-TO-PARTITION, PARTITION-TO-STRUCTURE, AND OTHER GENERAL DETAILS.

5.6. IF APPLICABLE, ALL EXTERIOR GUTTER AND DOWN SPOUT ASSEMBLY TO BE COPPER FINISH.

5.7. STEEL WORK SHALL BE NEW AND CONFORM TO THE ANSI/AISC 360-10 SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS.

5.8. MATERIAL SHALL CONFORM TO THE FOLLOWING, EXCEPT AS NOTED:

WIDE FLANGE SHAPES	ASTM A992 (Fy=50 ksi)
ANGLES, CHANNELS AND PLATES	ASTM A36 (Fy=36 KSI)
PIPE	ASTM A53, GRADE B (Fy=35 KSI)
RECTANGULAR HSS	ASTM A500, GRADE B (Fy=46 KSI)
ROUND HSS	ASTM A500, GRADE B (Fy=42 KSI)
HIGH STRENGTH BOLTS	ASTM A325 OR A490
THREADED RODS	ASTM A36 (Fy=36 KSI)
HEAVY HEX NUTS	ASTM A563
HARDENED STEEL WASHERS	ASTM F436
ANCHOR RODS	ASTM F1554 GR. 36 (Fy=36 KSI)

5.9. IT IS THE INTENTION OF THESE DESIGN DOCUMENTS TO DELEGATE THE DESIGN OF ALL STRUCTURAL STEEL CONNECTIONS TO A QUALIFIED SPECIALTY PROFESSIONAL ENGINEER, REGISTERED IN THE STATE OF FLORIDA. THIS REQUIREMENT EXTENDS TO ALL CONNECTIONS, WITH THE EXCEPTION OF THOSE SPECIFICALLY FULLY DESIGNED IN THE DESIGN DOCUMENTS. IT IS ANTICIPATED THAT PROSPECTIVE STRUCTURAL STEEL FABRICATORS WILL PERFORM NECESSARY INVESTIGATION TO DETERMINE THE FULL

5.10. IMPACT OF CONNECTION CLEARANCE REQUIREMENTS, AS WELL AS THE POTENTIAL NECESSARY INTRODUCTION OF DOUBLER PLATES, CONTINUITY PLATES, AND/OR WEB FLANGE OR OTHER STIFFENERS PRIOR TO SUBMITTING ANY BID FOR THIS WORK.

5.11. PROVIDE SIGNED AND SEALED CALCULATIONS FOR ALL STRUCTURAL STEEL CONNECTION DESIGN PREPARED BY A PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF FLORIDA (IN WHICH THE PROJECT RESIDES). CALCULATIONS ARE TO BE SUBMITTED SIMULTANEOUSLY WITH CORRESPONDING SUBMITTAL.

5.12. APPLY FIREPROOFING TO STEEL STRUCTURE CALCULATING THE THICKNESS OF FIREPROOFING BY COMPARING THE ACTUAL MEMBER SIZE TO THE MEMBER SIZE USED IN THE DESIGNATED UL RATING AND ADJUSTING APPROPRIATELY.

5.13. STEEL THAT IS ARCHITECTURALLY EXPOSED STRUCTURAL STEEL (AESS) AND SHALL CONFORM TO SECTION 10 OF THE AISC CODE OF STANDARD PRACTICE. AESS SHALL BE SANDBLASTED (SSPC-SP6-82) PRIOR TO PRIMER COAT APPLICATION. PRIMER SHALL BE COMPATIBLE WITH FINAL PAINT COAT AND SHALL BE APPROVED BY FINISH PAINT CONTRACTOR.

6 - WOOD AND PLASTICS

6.1. IF APPLICABLE, SUBMIT ROOF TRUSS SHOP DRAWINGS, SEALED BY AN ENGINEER REGISTERED IN FLORIDA, FOR REVIEW PRIOR TO FABRICATION.

6.2. CONSULT STRUCTURAL NOTES ON DRAWINGS FOR REQUIRED INFORMATION, CALCULATIONS AND CERTIFICATIONS, LOADING REQUIREMENTS, AND NAILING SIZES AND SPACING.

6.3. LUMBER, INCLUDING PRESSURE TREATED, SHALL BE THOROUGHLY SEASONED AND FREE FROM WARP THAT CANNOT BE CORRECTED BY BRIDGING AND NAILING. WOOD SHALL BE INSTALLED WITH THE RAINBOW GRAIN TO THE NAILING SURFACE.

6.4. WOOD IN CONTACT WITH ANY MASONRY OR LATH AND AT EXTERIOR LOCATIONS SHALL BE PRESSURE TREATED UNLESS OTHERWISE NOTED.

6.5. INTERIOR WOOD DOOR JAMBS SHALL BE OF SOLID RABBETED CONSTRUCTION.

6.6. CEILING, AND TRIM SHALL BE IPE, CAMURO OR CYPRESS WOOD, UNLESS OTHERWISE NOTED ON THE DRAWINGS. ALL WOOD CEILINGS SHALL HAVE 6" TONGUE AND GROOVE CONSTRUCTION AND ALL CLAPBOARD WALLS SHALL BE CONSTRUCTED OF 6" GERMAN DROP SIDING. ALL EXTERIOR WOOD CEILINGS SHALL RECEIVE A 1/2" QUARTER ROUND PRESSURE TREATED TRIM AT WALL CONNECTIONS UNLESS OTHERWISE NOTED. INTERIOR WALL SIDING, CEILING, TRIM, AND DOOR AND WINDOW CASINGS SHALL BE POPLAR, PAINT GRADE. ON EXTERIOR OF WOOD WALLS 2" X 4" WOOD TRIM SHALL SURROUND ALL WINDOWS AND DOORS AS WELL AS SERVE AS CORNERBOARDS.

6.7. SUBMIT EXTERIOR TRIM SAMPLES FOR APPROVAL. CONTRACTOR TO COMPLY WITH PS 20 "AMERICAN SOFTWOOD LUMBER STANDARD". SUBMIT SHOP DRAWINGS OF ALL CABINETRY.

6.8. FABRICATE ALL WOOD TRIM AND CASING TO PROFILES AND DETAILS SHOWN.

6.9. CONDITION FINISH CARPENTRY TO AVERAGE PREVAILING HUMIDITY CONDITIONS IN INSTALLATION AREAS PRIOR TO INSTALLATION.

6.10. INSTALL PLUMB, LEVEL, TRUE AND IN ALIGNMENT WITH ADJACENT MATERIALS.

6.11. SCRIBE AND CUT TO FIT ADJOINING WORK. MITER CORNERS AND COPE AT RETURNS.

6.12. WOOD CONSTRUCTION DESIGN, INCLUDING ALLOWABLE FORCES, LOAD FACTORS, ANCHOR SPACING, AND MINIMUM ALLOWABLE FIBER STRESSES SHALL CONFORM TO 2018 NATIONAL DESIGN SPECIFICATION (NDS).

6.13. ALL FRAMING LUMBER (INCLUDING STUDS, BEAMS, AND POSTS) SHALL BE SOUTHERN PINE, GRADE #2, OR BETTER AND SHALL BE KILN DRIED TO A MAXIMUM MOISTURE CONTENT OF 19% UNLESS NOTED OTHERWISE ON PLANS.

6.14. ALL EXPOSED EXTERIOR FRAMING AND FRAMING IN CONTACT WITH MASONRY OR CONCRETE SHALL BE PRESERVATIVE TREATED WITH ALKALINE COPPER QUATERNARY (ACQ) OR COPPER AZOLE (CBA-A AND CA-B), NOT SODIUM BORATE (SBX).

6.15. FRAMING SHALL HAVE THE FOLLOWING MINIMUM PROPERTIES BEFORE ADJUSTMENT FACTORS (BASED ON 2X12 MEMBER SIZE):

Property	Value
(Psi)Bending Stress ("F_b")	750
Shear Parallel to Grain ("F_v")	175
Compression Perpendicular to Grain ("F_c")	565
Compression Parallel to Grain ("$F_{c\parallel}$")	125
OModulus of Elasticity ("E")	1,400,000

6.16. DO NOT USED ENGINEERED LUMBER IN WET CONDITIONS UNLESS APPROVED BY THE MANUFACTURER.

6.17. UNLESS NOTED OTHERWISE. FASTENING FOR STRUCTURAL MEMBERS SHALL FOLLOW THE REQUIREMENTS OF THE INTERNATIONAL BUILDING CODE (IBC) TABLE 2304.10.1 FASTENING SCHEDULE.

6.18. WHERE COLUMNS ARE BUILT-UP WITH TWO OR MORE PLIES, THEY SHALL BE ADEQUATELY FASTENED TOGETHER THROUGHOUT THEIR LENGTH IN ACCORDANCE WITH THE 2018 NATIONAL DESIGN SPECIFICATION FIGURE 15C.

6.19. JOISTS SHALL BE ADEQUATELY SUPPORTED AT THEIR ENDS BY SOLID BLOCKING OR OTHER MEANS TO PREVENT ROTATION.

6.20. ALL HEADERS SHALL HAVE A MINIMUM OF TWO STUDS AT EACH END WITH ONE JACK STUD UNLESS NOTED OTHERWISE. THE REMAINDER SHALL BE KING STUDS. MULTIPLE STUDS SHALL BE NAILED WITH 12D NAILS AT 8" ON CENTER.

6 - WOOD AND PLASTICS (CONT.)

6.21. PROVIDE SOLID BLOCKING OR CRIPPLE STUDS IN THE FLOOR SYSTEM AT ALL POINT LOADS ABOVE.

6.22. MEMBER SIZES SHOWN ARE NOMINAL UNLESS NOTED OTHERWISE.

6.23. ROOF SHEATHING SHALL BE 19/32" MINIMUM THICKNESS 5 PLY EXPOSURE 1 APA SPAN RATING 40/20 PLYWOOD WITH SQUARE EDGES. ROOF SHEATHING SHALL BE NAILED TO WOOD FRAMING WITH ROOF SHEATHING RING SHANK FASTENERS (RSRS) IN ACCORDANCE WITH THE MINIMUM REQUIREMENTS OF THE 2020 FLORIDA BUILDING CODE RESIDENTIAL 7TH EDITION TABLE R803.2.3.1. WHERE BLOCKING ALONG PANEL EDGES IS NOT REQUIRED, PROVIDE CODE APPROVED PANEL SHEATHING CLIPS BETWEEN ADJACENT PLYWOOD PANELS AT ONE CLIP PER SPAN, FOR SPANS UP TO 24" AND TWO CLIPS FOR SPANS OVER 24".

6.24. FLOOR SHEATHING SHALL BE 3/4" MINIMUM THICKNESS EXPOSURE 1 APA SPAN RATING 48/24 PLYWOOD WITH TONGUE & GROOVE EDGES. GLUE AND NAIL FLOOR SHEATHING TO SUPPORTS W/ MINIMUM 8D RING-SHANK NAILS AT 6" ON CENTER MAX ALONG SUPPORTED EDGES AND 12" ON CENTER MAX ALONG INTERMEDIATE SUPPORTS. PLYWOOD FLOOR SHEATHING SHALL BE GLUED TO WOOD FRAMING IN ACCORDANCE WITH THE BUILDING CODE AND APA SPECIFICATION AFG-01 "ADHESIVES FOR FIELD GLUING PLYWOOD TO WOOD FRAMING".

6.25. WALL SHEATHING SHALL BE 1/2" MINIMUM THICKNESS EXPOSURE 1 APA SPAN RATING 32/16 PLYWOOD SHEATHING WITH SQUARE EDGES. NAIL PLYWOOD TO ALL SUPPORTS WITH, AT A MINIMUM, 10D NAILS AT 6" ON CENTER AT ALL PLYWOOD EDGES AND AT 12" ON CENTER AT INTERMEDIATE FRAMING MEMBERS. PROVIDE 10D NAILS AT 3" ON CENTER INTO DOUBLE TOP PLATE AND SILL PLATE.

7 - THERMAL AND MOISTURE PROTECTION

7.1. DELIVER ROOFING MATERIALS TO PROJECT SITE IN MANUFACTURER'S UNOPENED BUNDLES OR CONTAINERS WITH LABELS IN TACT. HANDLE AND STORE MATERIALS AT PROJECT SITE TO PREVENT WATER DAMAGE, STAINING, OR OTHER PHYSICAL DAMAGE. COMPLY WITH MANUFACTURER'S RECOMMENDATIONS FOR JOB SITE STORAGE, HANDLING, AND PROTECTION.

7.2. CONFORM TO PROFILES AND SIZES SHOWN ON THE DRAWINGS AND COMPLY WITH "ARCHITECTURAL SHEET METAL MANUAL" FOR THE FOLLOWING:
METAL FLASHING AND COUNTER FLASHING
METAL VALLEYS
DRIP FLASHING
LAMINATED FLASHING
ELASTIC SHEET FLASHING

7.3. COAT BACKSIDES OF SHEET METAL WITH 15 MIL. SULFUR FREE BITUMINOUS COATING WHERE REQUIRED TO SEPARATE METALS FROM CORROSIVE SUBSTRATES, INCLUDING CEMENT MATERIALS, WOOD, OR OTHER ABSORBENT MATERIALS.

7.4. ANCHOR WORK WITH NON-CORROSIVE FASTENERS, ADHESIVES, SETTING COMPOUNDS AS RECOMMENDED BY MANUFACTURER OF EACH MATERIAL. PROVIDE FOR THERMAL EXPANSION AND BUILDING MOVEMENT.

7.5. SEAL MOVING JOINTS WITH ELASTOMERIC JOINT SEALANTS.

7.6. CLEAN ALL METALS OF SOLDERING FLUX AND/OR OTHER CORROSIVE SUBSTANCES. WATERTIGHT AND WEATHERPROOFING PERFORMANCE OF FLASHING AND SHEET METAL WORK IS REQUIRED.

7.7. PROVIDE CONTINUOUS RUBBER WATERPROOF MEMBRANE AT ALL WALL AROUND GARAGE, RETAINING WALLS, MASTER BATHROOM SHOWER AND GARAGE ROOF DECK. INSTALL PER MANUFACTURER'S SPECIFICATIONS AND APPLY TILE/STONE PER TILE COUNCIL OF AMERICA STANDARDS. COORDINATE WITH PLUMBING DRAWINGS AND PROVIDE INTEGRAL DRAINS.

7.8. ROOF COVERING SYSTEM MUST BE SUBMITTED FOR CITY APPROVAL PRIOR TO INSTALLATION BEARING MIAMI-DADE COUNTY PRODUCT APPROVAL ACCEPTANCE NUMBER EQUAL TO GAF CONVENTIONAL BUILT-IN ROOFING SYSTEM FOR CONCRETE DECKS NOA #033043014 OR EQUIVALENT. FOR DECK AREA WATERPROOFING NOA #02051502 APPROVAL OR EQUIVALENT.

8 - DOOR AND WINDOWS

8.1. DOORS, WINDOWS, AND RAILINGS SHALL CONFORM TO APPLICABLE LOCAL AND NATIONAL CODES AND BE INSTALLED ACCORDING TO MANUFACTURER'S SPECIFICATIONS.

8.2. INTERIOR DOORS SHALL BE SOLID HARD WOOD FOR PAINT FINISH, PANELIZED OR LOUVERED, AS SHOWN ON THE DRAWINGS AND DOOR SCHEDULE (REFER TO INTERIOR DRAWINGS).

8.3. DOORS CONNECTING LIVING AREAS WITH GARAGE AREAS SHALL BE 20 MIN. FIRE RATED.

8.4. EXTERIOR DOORS AND DOORS TO THE BATHROOMS, LAUNDRY ROOM AND STORAGE CLOSETS SHALL HAVE THRESHOLDS AND VINYL WEATHER-STRIPPING INCORPORATED INTO THE DOOR JAMB.

8.5. DOORS AND WINDOWS SHALL BE INDICATED IN DOOR AND WINDOW SCHEDULES. CONTRACTOR SHALL PROVIDE A MOCK-UP OF ONE DOOR AND WINDOW WITH SHOP DRAWINGS.

8.6. DOOR HANDLES SHALL BE UNIFORMLY INSTALLED AT 3'-4" FROM THE BOTTOM OF THE DOOR, UNLESS OTHERWISE NOTED.

8.7. JOINTS AND SPACES AROUND WINDOWS AND EXTERIOR DOORS SHALL BE CAULKED WITH POLYSULFIDE SEALANT. CAULKING WORK SHALL BE COMPLETED BEFORE FINISH COAT OF PAINT IS APPLIED.

8.8. WINDOWS SHALL BE LEFT CLEAN, TIGHT AND WEATHERPROOF.

8.9. BURGLAR INTRUSION PREVENTION: ALL SINGLE EXTERIOR OUT-SWINGING DOORS TO HAVE A LOCK TO BE KEY OPERATED FROM THE EXTERIOR WITH AN AUXILIARY DEAD BOLT WITH HARD BOLT AND INSERT. HINGES ON THE EXTERIOR SWINGING DOORS SHALL HAVE NON-REMOVABLE HINGE PINS.

8.10. IF APPLICABLE, EXTERIOR HINGED SHUTTERS SHALL BE WOOD, OPERABLE, AND OF LOUVERED DESIGN. COLOR AND DESIGN TO BE APPROVED BY ARCHITECT.

8.11. CONTRACTOR TO INCLUDE A DOOR, WINDOW, AND CABINET HARDWARE ALLOWANCE FOR BOTH INTERIOR AND EXTERIOR DOORS. (TO BE SELECTED BY INTERIOR DESIGNER & ARCHITECT.)

8.12. CONTRACTOR TO PROTECT AND MAINTAIN THE FINISH OF ALL CABINETRY, DOORS, AND WINDOWS THROUGHOUT THE ENTIRE COURSE OF CONSTRUCTION AND FINAL INSPECTIONS.

8.13. VERIFY ALL FIELD CONDITIONS AND DIMENSIONS TO ENSURE THAT OPENINGS ARE PROPERLY SIZED, SQUARE, AND PLUMB. REPORT UNSUITABLE CONDITIONS TO THE GENERAL CONTRACTOR.

8.14. EVERY CLOSET DOOR LATCH SHALL BE SUCH THAT CHILDREN CAN OPEN THE DOOR FROM INSIDE THE CLOSET. EVERY BATHROOM DOOR LOCK SHALL BE DESIGNED TO PERMIT THE OPENING OF THE LOCKED DOOR FROM THE OUTSIDE IN CASE OF AN EMERGENCY.

9 - FINISHES

9.1. GYPSUM WALL BOARD (G.W.B.) MATERIAL SHALL BE 5/8" FOR WALLS AND CEILINGS. ALL G.W.B. AT BATHROOMS, AND GARAGES SHALL BE MOISTURE RESISTANT "GREEN BOARD" AND 5/8" CEMENT BOARD AT ALL CERAMIC TILE LOCATIONS. UNLESS OTHER WISE NOTED.

9.2. ALL EXTERIOR SURFACES SHALL BE KEYSTONE, WOOD OR A POLISHED, GRIND, SEALED CONCRETE FINISH. REFER TO DRAWINGS AND SPECIFICATIONS.

9.3. FLOOR FINISH CLEARANCES SHALL ALLOW FOR VARIOUS MATERIAL THICKNESS.

9.4. CONTRACTOR TO FURNISH ALL PLASTER FROM ONE MANUFACTURER.

9.5. CONTRACTOR TO INSTALL, APPLY, AND CURE MATERIALS IN ACCORDANCE WITH THE RED BOOK, U.S. GYPSUM LATHING AND PLASTER HANDBOOK.

9.6. THE FINISHED TOLERANCE FOR STUCCO APPLICATIONS SHALL BE A MAXIMUM DEVIATION FROM TRUE PLANE 1/8" IN 10'-0" AS MEASURED BY STRAIGHT EDGE PLACED AT ANY LOCATION ON ANY STUCCO SURFACE.

9.7. CONTRACTOR TO PROVIDE A 4'-0"" X 8'-0" ON SITE SAMPLE OF FINISHED STUCCO, SHOWING COLOR, TEXTURE, AND WORKMANSHIP FOR ARCHITECT'S REVIEW PRIOR TO COMMENCING WITH THE WORK.

9.8. CONTRACTOR TO WARRANT THE STUCCO AGAINST CHECK CRACKING, CRAZING AND DELAMINATION FOR A PERIOD OF TWO YEARS FROM FINAL DATE OF ACCEPTANCE.

9.9. PROTECT WINDOWS, DOORS AND OTHER ELEMENTS OF THE WORK FROM STUCCO APPLICATION. EXPANSION JOINTS TO BE LOCATED AS PER THE DRAWINGS. CONTRACTOR TO CLEAN AND REMOVE PLASTER AND PROTECTIVE MASKING FROM EXPANSION JOINTS AND ADJACENT SURFACES.

9.10. EXTERIOR STUCCO FINISH SHALL CONSIST OF A SCRATCH COAT AND 2 SMOOTH STEEL TROWEL FINISH COATS WITH 12 HOURS DRYING INTERVAL. ALL CORNERS SHALL BE APPLIED AGAINST WOOD RULERS. TEST SAMPLES SHALL BE MADE FOR APPROVAL BY THE ARCHITECT PRIOR TO EXECUTION OF THE WORK.

9 - FINISHES

9.11. INSTALL G.W.B. IN MAXIMUM PRACTICAL LENGTHS TO SPAN WALLS WITH A MINIMUM NUMBER OF END BUTT JOINTS.

9.12. SPACE ALL DRYWALL SCREWS NOT MORE THAN 16" O.C.

9.13. INSTALL METAL BEADS AT EXPOSED EDGES, DOORS, AND CORNERS OF G.W.B. FINISH. FASTEN SECURELY. SECURE WALL BOARD TO SUPPORTING MEMBERS.

9.14. CUT LEVEL, SQUARE, AND TIGHT OPENINGS FOR ALL FIXTURES AND FITTINGS SO THAT THE WALL BOARD EDGES WILL BE CONCEALED BY LEVEL, SQUARE FACE PLATES.

9.15. REINFORCE ALL WALLBOARD JOINTS AND INTERIOR CORNERS WITH JOINT TAPE SET IN JOINT COMPOUND, (EXCEPT WHERE GREEN BOARD AND WONDER BOARD ARE USED). FILL ALL JOINTS, FASTENER HEADS, CRACKS AND OTHER DEPRESSIONS WITH JOINT COMPOUND.

9.16. FINISH SMOOTH AND FLUSH SO THAT LOCATION OF JOINTS, SCREWS, AND OTHER ITEMS WILL NOT BE VISIBLE AFTER PAINTING. FINISH SMOOTH AT BASE SO THAT FLOORING AND BASE BOARD CAN FINISH CLEANLY AGAINST GYP. BOARD.

9.17. FINISHED WALL BOARD SURFACES SHALL HAVE A TOLERANCE WITHIN 1/4" IN 8'-0" FOR PLUMB, LEVEL, WARP, AND BOW.

9.18. USE WATER RESISTANT "GREEN BOARD" FOR BATH AREAS. IN WET AREAS TO INCLUDE SINK, TOILET, TUBS, CERAMIC TILE AND SHOWERS PROVIDE ½" OR 5/8" CEMENT BOARD. FOR CERAMIC TILE.

9.19. ROOM FINISHES SHALL BE PER THE ROOM FINISH SCHEDULE. ALL WALL AND FLOOR TILE, STONE, MARBLE AND MOSAIC FINISHES TO BE SUPPLIED APPROVED BY OWNER & SUPPLIED BY CONTRACTOR. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL TILE, STONE, MARBLE AND MOSAIC INSTALLATIONS, CUTTING AND FITTING, FIELD MEASURING, ADHESIVES, AND CEMENT AND MORTAR.

9.20. BATHROOM FINISHES SHALL BE APPROVED BY OWNER & SUPPLIED BY CONTRACTOR. SHOWER SHALL BE TILED TO THE CEILING, UNLESS OTHERWISE NOTED. FLOOR TILE SHALL HAVE A NON-SLIP FINISH. ALL BATHROOM'S ACCESSORIES SHALL BE APPROVED BY THE OWNER. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL TILE INSTALLATION, CUTTING, FIELD MEASURING, ADHESIVES, AND MORTARS.

9.21. SURFACES TO BE PAINTED SHALL BE FREE FROM DEFECTS INCLUDING KNOTS AND SAP STREAKS. DEFECTS SHALL BE FILLED, SEALED WITH BONDO BRAND FILLER AND SANDED SMOOTH AS REQUIRED TO REMOVE VISIBLE BLEMISHES. HANDRAILS SHALL BE SANDED SMOOTH.

9.22. PAINT COLORS SHALL BE SELECTED BY THE ARCHITECT. A MINIMUM OF FOUR TEST SAMPLES OF AN AREA NO LESS THAN 4 SQ. FT. SHALL BE PRODUCED AND APPROVED PRIOR TO THE EXECUTION OF THE WORK.

9.23. PRIMER AND PAINT SHALL BE SUPPLIED ALONG WITH NECESSARY THINNERS AND CLEANSERS. BATHROOM PAINT SHALL HAVE M-1 MILDEW ADDITIVE AT A RATIO PER THE MANUFACTURER'S SPECIFICATIONS.

9.24. DOORS, WINDOW FRAMES, SIDING BOARDS, AND TRIM SHALL BE PAINTED OR STAINED PER THE FINISH SCHEDULE FOR ARCHITECT'S INSPECTION PRIOR TO INSTALLATION. AIR DISTRIBUTION DEVICES SHALL BE SPRAY PAINTED THE COLOR OF THE ADJACENT WALL OR CEILING SURFACE. WOOD CABINETS SHALL BE HAND FINISHED PRIOR TO INSTALLATION.

9.25. ALL PAINT & STAIN SHALL BE THE HIGHEST QUALITY " SHERWIN WILLIAMS" PRODUCTS UNLESS OTHERWISE NOTED. ALL EXTERIOR WOOD TO BE STAINED. ALL INTERIOR WOOD TO BE PAINTED, EXCEPT MILLWORK OR UNLESS OTHERWISE NOTED ON THE DRAWINGS (REFER TO INTERIOR DRAWINGS).

9.26. ALL BATHROOM ACCESSORIES, FAUCETS, PLUMBING FIXTURES AND DECORATIVE LIGHT FIXTURES NOT YET SPECIFIED WILL BE SELECTED BY ARCHITECT/INTERIOR DESIGNER AT A LATER DATE AND INSTALLED BY THE GENERAL CONTRACTOR.

9.27. WALL AND CEILING FINISHES SHALL HAVE A FLAME SPREAD CLASSIFICATION OF NO GREATER THAN 200 AND A SMOKE DEVELOPED INDEX NOT GREATER THAN 450 AS PER ASTM E-84 OR UL 273. ALL FINISHES WILL BE DETAILED IN DIVISION 9 OF THE ARCHITECTURAL SPECIFICATIONS.

9.28. CONTRACTOR TO PROVIDE ALL NECESSARY BLOCKING, BACKING, SLEEVES, FRAMING OR LIGHT FIXTURES, ELECTRICAL UNITS, A/C EQUIPMENT, DRAPERY OR CEILING TRACKS, PLUMBING EQUIPMENT, COUNTERS, SHELVES, HANDRAILS, RAILINGS AND ALL OTHER ITEMS REQUIRING THE SAME.

10 - SPECIALTIES

10.1. ALLOWANCES ARE NOT TO BE SUBSTITUTED FOR THE SPECIFIED ITEMS WITHOUT PRIOR APPROVAL BY THE ARCHITECT.

10.2. CABINETS SHALL HAVE CONCEALED HINGES. SAMPLES SHALL BE SUBMITTED TO THE ARCHITECT FOR APPROVAL AFTER ACCEPTANCE OF SHOP DRAWINGS AND PRIOR TO CABINET FABRICATION. ALL COUNTERTOPS SHALL BE 36" HIGH UNLESS OTHERWISE NOTED.

10.3. BUILT-IN CABINETS FOR WHICH SHOP DRAWINGS ARE TO BE PROVIDED, AS INDICATED ON THE DRAWINGS, SHALL INCLUDE THE ALLOWING: KITCHEN CABINETS, BUILT-IN WALL UNITS AND WET BAR BUILT IN CABINETS.

~~10.4. CLOSETS SHALL BE FINISHED PER THE FINISH SCHEDULE AND SHALL HAVE INSTALLED TWO LEVEL ROD AND SHELF, EXCEPT AT MASTER BEDROOM (SEE DRAWINGS). LINEN CLOSETS SHALL HAVE 4 LEVELS OF SHELVES. BOOKSHELVES SHALL BE AS SHOWN ON DRAWINGS. ALL BUILT-IN CABINETS AND SHELVES SHALL BE PAINTED CLEAR FIR. TOWEL BARS, PAPER HOLDERS, AND MIRROR FRAMES SHALL BE CUSTOM-FABRICATED AND VARNISHED MAPLE, AS SHOWN ON DRAWINGS.~~

~~10.5. THE SECURITY, T-V CABLE - FIBER OPTIC, TELEPHONE, AND STEREO SYSTEMS ARE NOT DETAILED IN THIS CONTRACT, BUT THE CONTRACTOR SHALL PROVIDE AN ALLOWANCE FOR EACH ITEM AND SUBMIT A DESCRIPTION OF EACH.~~

~~10.6. A SIGN SHALL BE PLACED ON THE GARAGE WALL STATING WITH 1" LETTERS, "DO NOT OPERATE ENGINES WITH DOORS CLOSED, CARBON MONOXIDE IS LETHAL." IN ACCORDANCE WITH ALL APPLICABLE REGULATIONS". BOTTOM OF SIGN TO BE AT 5'-0" ABOVE FINISHED FLOOR.~~

10.7. ALL TERMITE PROTECTION SHALL BE PROVIDED IN ACCORDANCE WITH STATE, LOCAL AND COUNTY CODES.

10.8. KITCHEN PARTITION SHALL HAVE 20 G.A. MTL STUDS AT 16" O.C. W/2X8 P.T. WD. BLOCKING AT ALL WALL WHERE CABINETRY SHALL BE INSTALLED.

10.9. STREET WALL ADDRESS NUMBERS TO BE IN CONTRASTING COLOR FROM FINISH BACKGROUND. MIN. 4" HIGH AND 1/2" STROKE WIDTH PER NUMBER.

11 - EQUIPMENT

NOT USED

12 - FURNISHINGS

12.1. FURNISHINGS ARE TO BE SELECTED, PROVIDED, AND INSTALLED BY OWNER. SEE INTERIOR DWGS. FOR ROOM FINISH SCHEDULE AND BUILT-IN CABINETRY/SHELVING TO BE PROVIDED BY CONTRACTOR.

13 - SPECIAL CONSTRUCTION

~~13.1. GENERAL CONTRACTOR TO COORDINATE WORK OF POOL SUBCONTRACTOR WITH THE WORK OF THE OTHER TRADES. COMPLY WITH GOVERNING CODES AND REGULATIONS. SUBCONTRACT WITH AN EXPERIENCED STATE CERTIFIED POOL CONTRACTOR WITH A MINIMUM OF FIVE YEARS EXPERIENCE INSTALLATION AND REPAIRS IN THE POOL INDUSTRY.~~

~~13.2. CONTRACTOR TO SUBMIT SAMPLE OF POOL FINISH AND TILE GROUT TO ARCHITECT FOR APPROVAL. ALL EQUIPMENT AND SHOP DRAWINGS SHALL BE SUBMITTED FOR ARCHITECTS APPROVAL.~~

~~13.3. LANDSCAPING AND IRRIGATION SYSTEMS SHALL BE INSTALLED AS PER THE REQUIREMENT OF THE CITY OR COUNTY.~~

14 - PLUMBING

14.1. ALL PLUMBING FIXTURE, FAUCETS AND FIXTURE FITTINGS SHALL BE IN COMPLIANCE WITH STANDARDS AS PER FLORIDA BUILDING CODE.

15 - MECHANICAL

15.1. THE FOLLOWING SPECIFICATIONS ARE MINIMUM REQUIREMENTS TO SUPPLEMENT THE DRAWINGS.

15.2. WORK AND MATERIALS BY CONTRACTOR SHALL BE IN ACCORDANCE WITH APPLICABLE NATIONAL AND LOCAL CODES, CONVENTIONAL GUIDELINES, AND THE REQUIREMENTS OF LOCAL UTILITY COMPANIES.

15.3. DRAWINGS INDICATE LOCATION OF EQUIPMENT, RUNS, AND OUTLETS DIAGRAMMATICALLY. CHANGES MADE DUE TO SITE CONDITIONS SHALL BE MADE AT NO ADDITIONAL COST TO THE OWNER. THE ARCHITECT SHALL BE NOTIFIED OF SUCH MODIFICATIONS PRIOR TO THE EXECUTION OF WORK.

15.4. CONTRACTORS SHALL COORDINATE THEIR WORK WITH THE WORK OF OTHER TRADES PRIOR TO EXECUTION OF THEIR WORK.

15.5. CONTRACTORS SHALL OBTAIN THE APPROPRIATE INSPECTOR'S ACCEPTANCE OF THEIR WORK.

15.6. CONTRACTOR SHALL INSTALL COMPLETE WATER SERVICE, DISTRIBUTION, WASTE DISPOSAL AND DRAINAGE SYSTEMS.

15.7. CONTRACTOR SHALL PROVIDE AND INSTALL HEATERS, INSTALL FIXTURES, AND FAUCETS SPECIFIED IN THE SCHEDULE AND INCLUDE THE NECESSARY HARDWARE FOR THEIR PROPER USE.

15.8. CONTRACTOR SHALL PROVIDE NECESSARY SLEEVES, PIPE CONNECTIONS AND CLEAN-OUTS FOR CONNECTION TO FUTURE MUNICIPAL SEWER SYSTEM.

15.9. REFER TO SCHEDULES FOR FIXTURE TYPES, SPECIFICATIONS, AND LOCATIONS.

15.10. CONTRACTOR SHALL PROVIDE AND INSTALL A.C. EQUIPMENT AS SPECIFIED IN THE SCHEDULE AND AIR DISTRIBUTION AND PIPING AS SHOWN IN THE DRAWINGS.

15.11. LOCATIONS OF ALL GRILLES AND REGISTERS SHALL BE VERIFIED WITH THE ARCHITECT PRIOR TO INSTALLATION.

15.12. AIR DISTRIBUTION DEVICES SHALL BE ALUMINUM CONSTRUCTION WITH OPPOSED BLADE DAMPER AND EQUALIZING GRID TITUS OR EQUAL WITH ADJUSTABLE LOUVERS.

15.13. THERMOSTATS SHALL HAVE A SUB-BASE WITH HEAT-OFF-COOL AND FAN SWITCHES.

15.14. AIR CONDITIONING GRILLES SHALL BE PAINTED TO MATCH ADJACENT SURFACES.

15.15. INTERIOR OF DUCT BOOTS TO BE PAINTED FLAT BLACK. ALL LABOR, EQUIPMENT AND MATERIALS SHALL BE WARRANTED FOR ONE YEAR AFTER FINAL ACCEPTANCE OF WORK.

16 - ELECTRICAL

16.1. THE FOLLOWING SPECIFICATIONS ARE MINIMUM REQUIREMENTS TO SUPPLEMENT THE DRAWINGS.

16.2. WORK AND MATERIALS BY CONTRACTOR SHALL BE IN ACCORDANCE WITH APPLICABLE NATIONAL AND LOCAL CODES, CONVENTIONAL GUIDELINES, AND THE REQUIREMENTS OF LOCAL UTILITY COMPANIES. DRAWINGS INDICATE LOCATION OF EQUIPMENT, RUNS, AND OUTLETS DIAGRAMMATICALLY. CHANGES MADE DUE TO SITE CONDITIONS SHALL BE MADE AT NO ADDITIONAL COST TO THE OWNER. THE ARCHITECT SHALL BE NOTIFIED OF SUCH MODIFICATIONS PRIOR TO THE EXECUTION OF WORK.

16.3. CONTRACTORS SHALL COORDINATE THEIR WORK WITH THE WORK OF OTHER TRADES PRIOR TO EXECUTION OF THEIR WORK.

16.4. CONTRACTOR TO INCLUDE DECORA STYLE SWITCHES.

16.5. CONTRACTORS SHALL OBTAIN THE APPROPRIATE INSPECTOR'S ACCEPTANCE OF THEIR WORK.

16.6. CONTRACTOR SHALL PROVIDE AND INSTALL COMPLETE ELECTRICAL SERVICE OF THE PROPER CAPACITY ACCORDING TO THE DRAWINGS.

16.7. CONTRACTOR SHALL PROVIDE RELAYS AS REQUIRED FOR THE THERMOSTAT CONTROL; SHALL PROVIDE EMPTY CIRCUITS AND BOXES FOR THE TELEPHONE AND FIBER OPTIC CABLES AND PROVIDE WIRING TO THE APPROPRIATE LOCATIONS.

16.8. SERVICE WORK INCLUDING ORDERING AND RECEIVING EQUIPMENT SHALL CONFORM TO THE REQUIREMENTS OF THE LOCAL ELECTRIC UTILITY. PANEL BOARDS SHALL BE OF THE CIRCUIT BREAKER TYPE. ALL ELECTRICAL WORK SHALL BE GROUNDED. ALL ON SITE ELECTRICAL SERVICE SHALL BE LOCATED UNDERGROUND AND COORDINATED WITH EXISTING FLORIDA POWER AND LIGHT SERVICE AND LINES. NEW SERVICE SHALL BE ROUTED FROM THE REAR YARD EASEMENT AND CONNECTED TO METER LOCATED ON DRAWINGS.

16.9. SWITCHES, OUTLETS, AND PLATES SHALL BE SPECIFIED BY THE ARCHITECT. SWITCHES SHALL BE SILENT ROCKER TYPE.

16.10. LOCATIONS OF ALL ELECTRICAL SWITCHES, OUTLETS, TELEPHONE AND T.V. JACKS SHALL BE MARKED FOR VERIFICATION BY THE ARCHITECT PRIOR TO INSTALLATION.

16.11. CONTRACTOR TO INSTALL PADDLE FANS AT LOCATIONS INDICATED ON THE PLANS.

16.12. ALARMS AND DETECTORS: REFER TO ELECTRICAL SHEETS, E SERIES, FOR ALL CARBON MONOXIDE AND SMOKE ALARMS.

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A NEW RENOVATION FOR:
CO OCALA MUNICIPAL GOLF CLUB
OCALA, FLORIDA

project no. 2136
by JP/SG
date 11.30.21
sheet no.
SP100

BID DOCUMENTS

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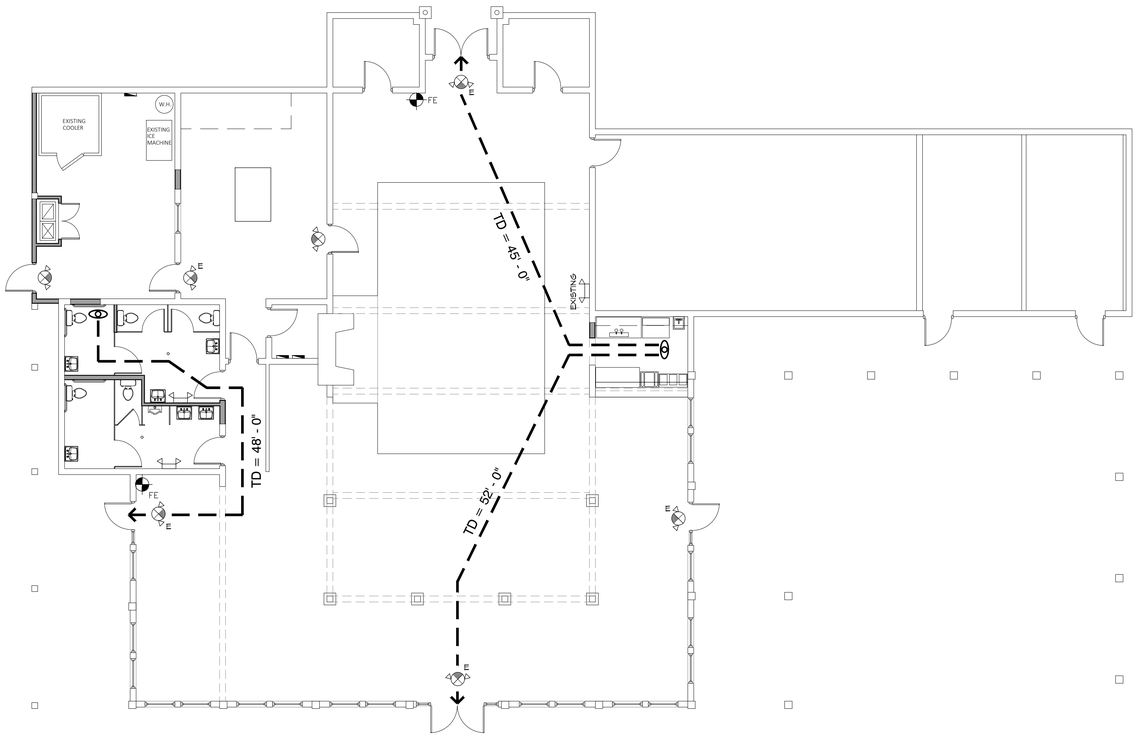

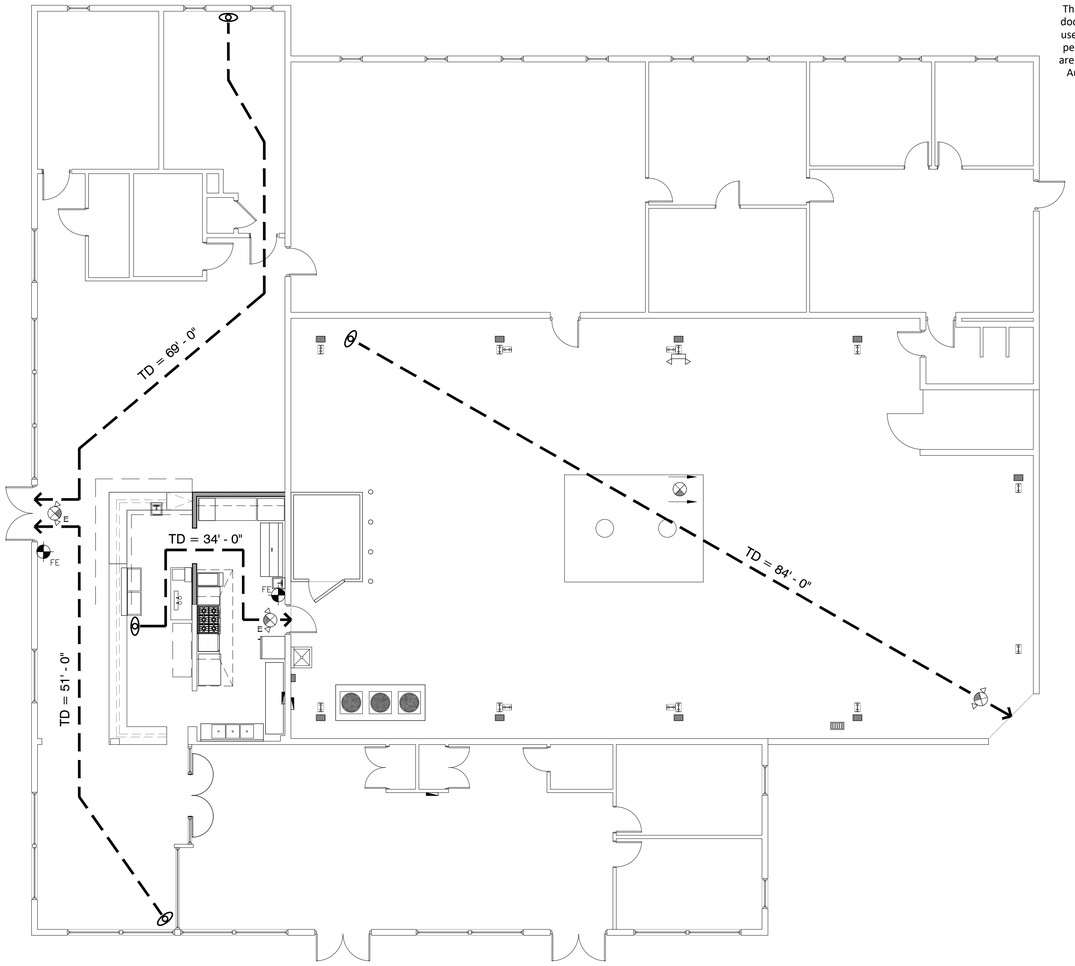

SYMBOLS LEGEND	
NEW COMBINATION EXIT SIGN W/ EMERGENCY LIGHT BATTERY PACK	EXIT CAPACITY: CAPACITY OF EXIT (170) / OCCUPANT LOAD (28)
E EXISTING COMBINATION EXIT SIGN W/ EMERGENCY LIGHT BATTERY PACK, IF NOT PRESENT A NEW ONE MUST BE INSTALLED.	TRAVEL DISTANCE: TRAVEL DISTANCE (TD); TD = 100'; DIRECTION OF TRAVEL
FE FIRE EXTINGUISHER & CABINET FOR CLASS 2A-10BC RATING FIRE EXTINGUISHER. (TYP. BY G.C.) COORDINATE EXACT LOCATION W/ LOCAL FIRE OFFICIALS.	INDICATES DISTANCE OF TRAVEL FROM MOST REMOTE LOCATION WITHIN A ROOM OR SPACE TO AN EXIT.
EMERGENCY LIGHT W/ BATTERY PACK	
DIRECTIONAL EXIT SIGN W/ EMERGENCY BATTERY PACK	

LIFE SAFETY PLAN

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

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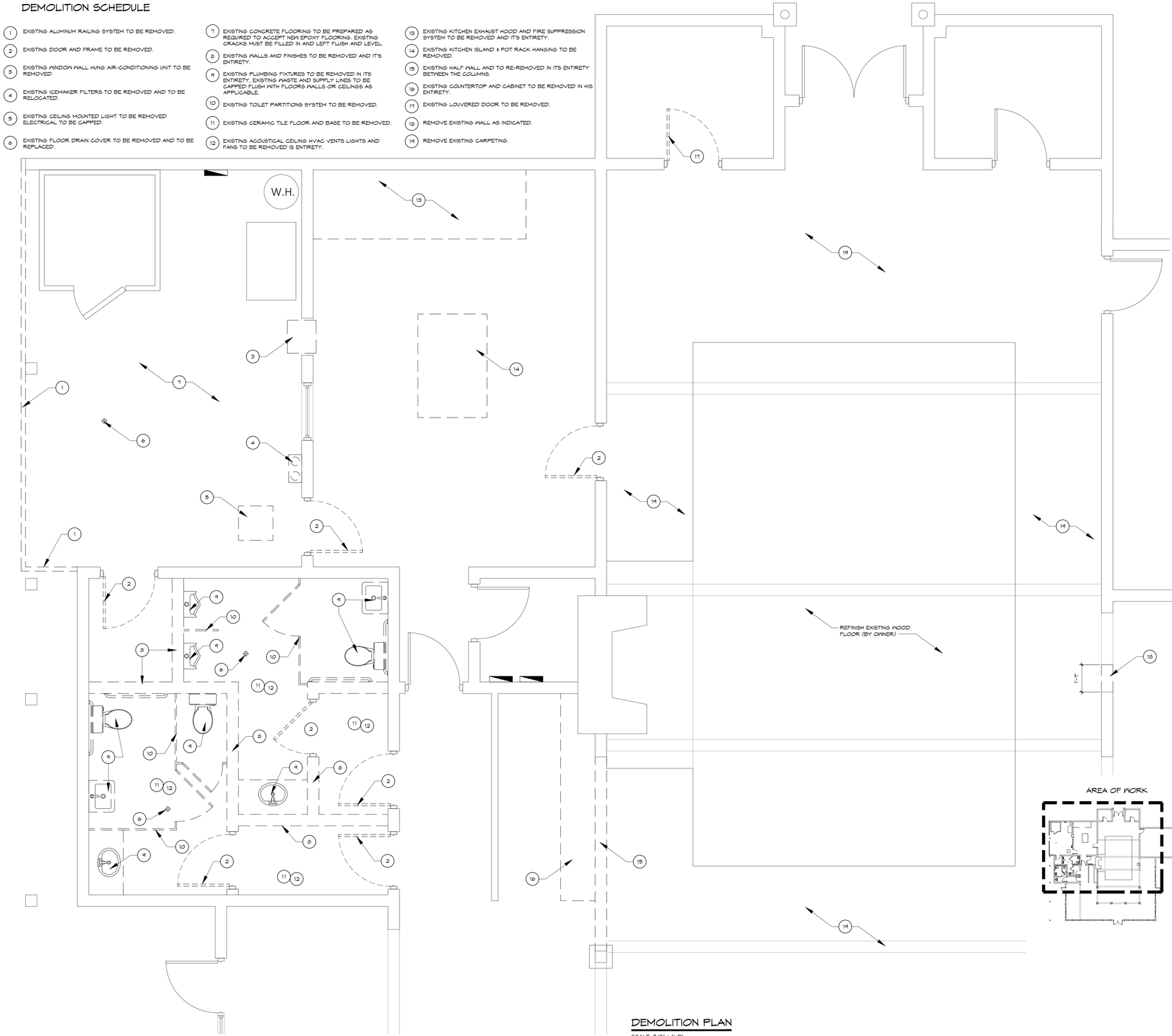
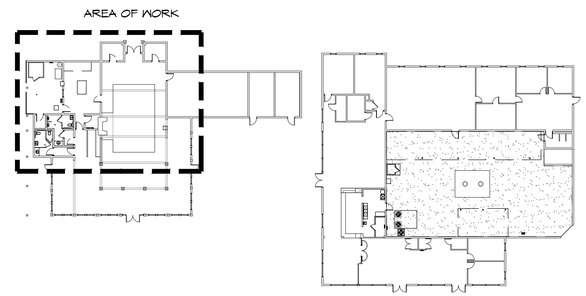
DEMOLITION SCHEDULE

1. EXISTING ALUMINUM RAILING SYSTEM TO BE REMOVED.
2. EXISTING DOOR AND FRAME TO BE REMOVED.
3. EXISTING WINDOW WALL HUNG AIR-CONDITIONING UNIT TO BE REMOVED.
4. EXISTING ICEMAKER FILTERS TO BE REMOVED AND TO BE RELOCATED.
5. EXISTING CEILING MOUNTED LIGHT TO BE REMOVED ELECTRICAL TO BE CAPPED.
6. EXISTING FLOOR DRAIN COVER TO BE REMOVED AND TO BE REPLACED.
7. EXISTING CONCRETE FLOORING TO BE PREPARED AS REQUIRED TO ACCEPT NEW EPOXY FLOORING. EXISTING CRACKS MUST BE FILLED IN AND LEFT FLUSH AND LEVEL.
8. EXISTING WALLS AND FINISHES TO BE REMOVED AND ITS ENTIRETY.
9. EXISTING PLUMBING FIXTURES TO BE REMOVED IN ITS ENTIRETY. EXISTING WASTE AND SUPPLY LINES TO BE CAPPED FLUSH WITH FLOORS WALLS OR CEILINGS AS APPLICABLE.
10. EXISTING TOILET PARTITIONS SYSTEM TO BE REMOVED.
11. EXISTING CERAMIC TILE FLOOR AND BASE TO BE REMOVED.
12. EXISTING ACOUSTICAL CEILING HVAC VENTS LIGHTS AND FANS TO BE REMOVED IS ENTIRETY.
13. EXISTING KITCHEN EXHAUST HOOD AND FIRE SUPPRESSION SYSTEM TO BE REMOVED AND ITS ENTIRETY.
14. EXISTING KITCHEN ISLAND & POT RACK HANGING TO BE REMOVED.
15. EXISTING HALF WALL AND TO RE-REMOVED IN ITS ENTIRETY BETWEEN THE COLUMNS.
16. EXISTING COUNTERTOP AND CABINET TO BE REMOVED IN HIS ENTIRETY.
17. EXISTING LOUVERED DOOR TO BE REMOVED.
18. REMOVE EXISTING WALL AS INDICATED.
19. REMOVE EXISTING CARPETING.



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



KEY PLAN
SCALE: N.T.S.

NORTH

GENERAL DEMOLITION NOTES

CONTRACTOR SHALL COORDINATE W/ OWNER REGARDING HOURS OF OPERATION AS NOT TO DISRUPT DAILY BUSINESS ACTIVITY. PROVIDE SAFE OWNER ACCESS DURING CONSTRUCTION PERIOD AND LOCKABLE FRONT ENTRANCE W/ TENANT AND CONTRACTOR HAVING KEYED ACCESS.

USE VISQUEEN TO PROTECT PARTS OF THE EXISTING WORK SCHEDULED TO REMAIN. CUT AWAY CAREFULLY THE PARTS TO BE DEMOLISHED TO REDUCE THE AMOUNT OF NECESSARY REPAIRS.

PROVIDE TEMPORARY SUPPORT TO STRUCTURE AS NEEDED DURING CUTTING OF NEW OPENINGS.

PREVENT ACCUMULATION OF DEBRIS AND OVERLOADING OF ANY PARTS OF THE STRUCTURE.

PREVENT DAMAGE TO OVERHEAD WIRES, UNDERGROUND CABLES, TELEPHONE, WATER AND SEWER LINES DURING DEMOLITION OPERATIONS.

AFTER COMPLETION OF THE DEMOLITION WORK, LEAVE SITE NEAT & ORDERLY ON A DAILY BASIS.

CONTRACTOR IS RESPONSIBLE FOR MEANS & METHODS INCLUDING ESTABLISHING AND MAINTAINING A SAFE OSHA COMPLIANT WORK ENVIRONMENT.

CONTRACTOR SHALL ARRANGE WITH THE UTILITY COMPANIES FOR THE DISCONNECTION OF SERVICES BEFORE STARTING DEMOLITION WORK AS REQD.

PREVENT ACCESS OF UNAUTHORIZED PERSONS TO PARTLY DEMOLISHED STRUCTURES.

ITEMS FOR REUSE SHALL BE STORED BY CONTRACTOR ON SITE IN OWNER'S BUILDING AT SPECIFIED LOCATION. ITEMS ARE TO BE CLEANED, PATCHED, REFINISHED, PAINTED OR REPAIRED AS REQUIRED PRIOR TO INSTALLATION.

ITEMS NOT TO BE RETAINED BY OWNER SHALL BE DISPOSED OF BY THE CONTRACTOR AT THE CONTRACTOR'S EXPENSE.

CONTRACTOR IS RESPONSIBLE FOR LEGALLY DISPOSING OF ALL MATERIALS AND ASSOCIATED COST OF INTERIM STORAGE FACILITIES (DUMPSTER).

PRIOR TO COMMENCEMENT OF DEMOLITION WORK CONTRACTOR SHALL INVESTIGATE EXISTING LOAD BEARING WALL CONDITIONS. IF LOAD BEARING WALLS ARE ENCOUNTERED AND NEED ALTERATIONS DUE TO NEW FLOOR PLAN LAYOUT,THE STRUCTURE SHALL BE SHORED, BRACED AND SUPPORTED AS NEEDED TO MAINTAIN STRUCTURAL INTEGRITY DURING WALL STRUCTURE MODIFICATIONS.

AFTER SCHEDULED DEMOLITION OF WALLS, FLOORS, CEILINGS CONTRACTOR SHALL PATCH WALLS, FLOORS, CEILINGS W/ MATERIALS TO MATCH ADJACENT WALL, FLOOR, CEILING MATERIAL AS NEEDED FOR THE PROPER APPLICATION OF NEW FINISHES. PROVIDE FLUSH CONTINUOUS WALL, FLOOR, CEILING FINISHES.

POWER DATA RECEPTACLES COMMUNICATION SYSTEM AND RELATED WIRING THAT CONFLICT W/ SCHEDULED CONSTRUCTION SHALL BE REMOVED.

H.V.A.C. GRILLES AND RELATED DUCTS AND HARDWARE THAT CONFLICT W/ SCHEDULED CONSTRUCTION SHALL BE RELOCATED AND PROPERLY REINSTALLED. SEE MECHANICAL FOR ADDITIONAL INFORMATION.

PROVIDE TRENCHING, FLOOR, WALL AND CEILING PENETRATIONS AS NEEDED FOR THE INSTALLATION OF SCHEDULED PLUMBING FIXTURES. ACCESS TO PLUMBING LINES LOCATED ABOVE FLOOR CEILING AREAS SHALL BE COORDINATED WITH OWNER AS NEEDED. PLUMBING LINES SHALL BE CAPPED OR REMOVED AS REQUIRED FOR SCHEDULED CONSTRUCTION. ALL FINISHES ON FIRST FLOOR SHALL BE PATCHED AND REFINISHED AS NEEDED TO PROVIDE FLUSH, SMOOTH AND CONTINUOUS FINISHES.

REMOVE ALL CEILING ASSEMBLIES INCLUDING SUSPENSION SYSTEMS, HARDWARE, AND ALL RELATED ITEMS.

REMOVE EXISTING SUBSTRATES WHICH ARE DAMAGED OR NOT ACCEPTABLE FOR THE APPLICATION OF SCHEDULED FINISHES.

FLOOR, WALL AND CEILING FINISHES THAT CONFLICT W/ THE APPLICATION OF SCHEDULED FINISHES SHALL BE REMOVED AND SURFACE PREPARED AS NEEDED FOR THE PROPER APPLICATION OF NEW FINISHES.

EXISTING DEMOLITION MUST BE COMPLETE FROM FINISH FLOOR TO BOTTOM OF DECK.

ALL EXISTING PENETRATIONS THRU CONCRETE SLAB MUST BE CAPPED A MINIMUM OF 6" BELOW SLAB. EXISTING CONCRETE SLABS AND EDGES MUST BE LEFT READY TO ACCEPT PREPERATIONS FOR VCT OR CARPET.

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BID DOCUMENTS

GENERAL NOTES:

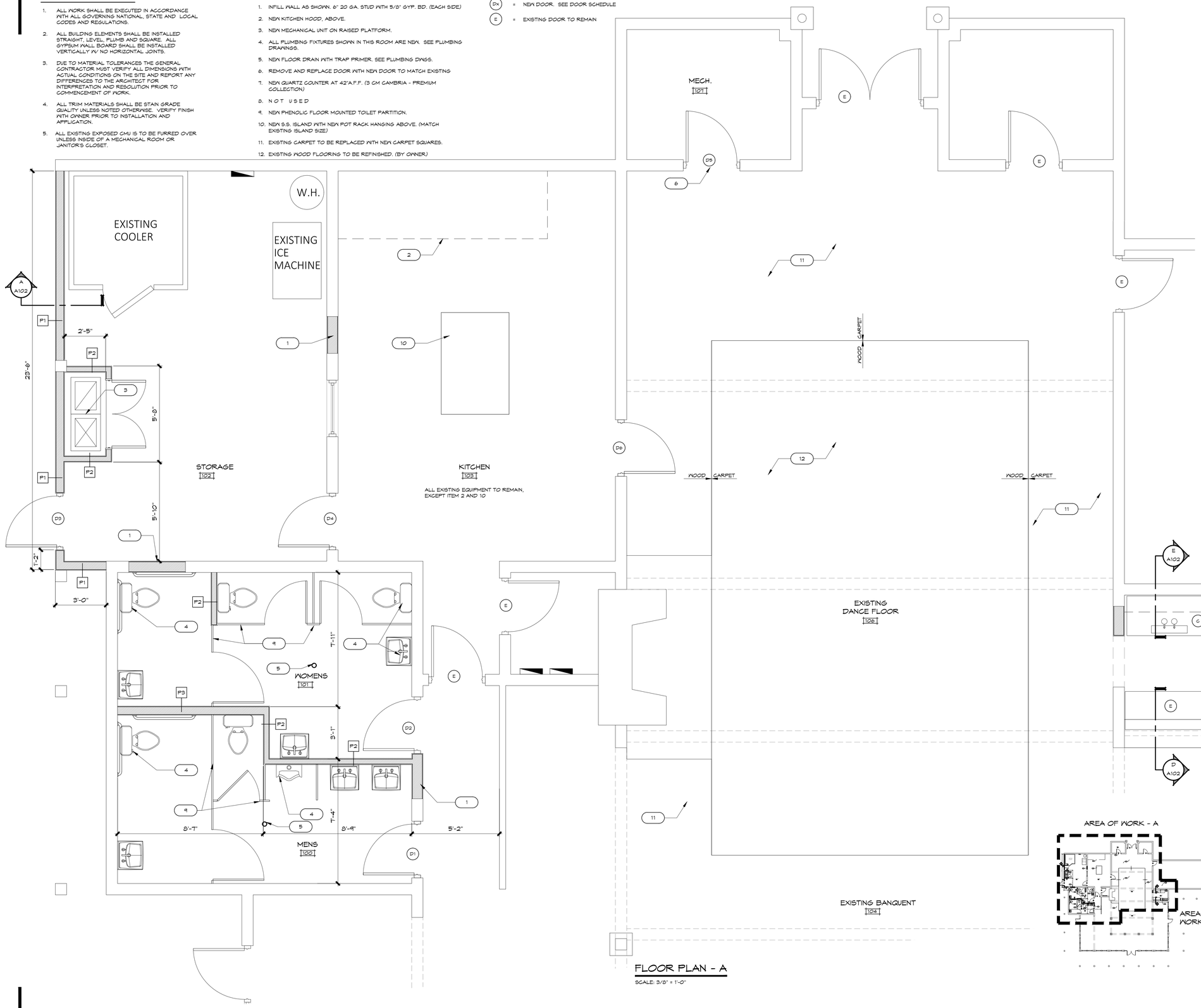
1. ALL WORK SHALL BE EXECUTED IN ACCORDANCE WITH ALL GOVERNING NATIONAL, STATE AND LOCAL CODES AND REGULATIONS.
2. ALL BUILDING ELEMENTS SHALL BE INSTALLED STRAIGHT, LEVEL, PLUMB AND SQUARE. ALL GYPSUM WALL BOARD SHALL BE INSTALLED VERTICALLY W/ NO HORIZONTAL JOINTS.
3. DUE TO MATERIAL TOLERANCES THE GENERAL CONTRACTOR MUST VERIFY ALL DIMENSIONS WITH ACTUAL CONDITIONS ON THE SITE AND REPORT ANY DIFFERENCES TO THE ARCHITECT FOR INTERPRETATION AND RESOLUTION PRIOR TO COMMENCEMENT OF WORK.
4. ALL TRIM MATERIALS SHALL BE STAIN GRADE QUALITY UNLESS NOTED OTHERWISE. VERIFY FINISH WITH OWNER PRIOR TO INSTALLATION AND APPLICATION.
5. ALL EXISTING EXPOSED CMU IS TO BE FURRED OVER UNLESS INSIDE OF A MECHANICAL ROOM OR JANITOR'S CLOSET.

(X) PLAN NOTES:

1. INFILL WALL AS SHOWN. 6" 20 GA. STUD WITH 5/8" GYP. BD. (EACH SIDE)
2. NEW KITCHEN HOOD, ABOVE.
3. NEW MECHANICAL UNIT ON RAISED PLATFORM.
4. ALL PLUMBING FIXTURES SHOWN IN THIS ROOM ARE NEW. SEE PLUMBING DRAWINGS.
5. NEW FLOOR DRAIN WITH TRAP PRIMER. SEE PLUMBING DWGS.
6. REMOVE AND REPLACE DOOR WITH NEW DOOR TO MATCH EXISTING
7. NEW QUARTZ COUNTER AT 42"A.F.F. (3 CM CAMBRIA - PREMIUM COLLECTION)
8. N O T U S E D
9. NEW PHENOLIC FLOOR MOUNTED TOILET PARTITION.
10. NEW S.S. ISLAND WITH NEW POT RACK HANGING ABOVE. (MATCH EXISTING ISLAND SIZE)
11. EXISTING CARPET TO BE REPLACED WITH NEW CARPET SQUARES.
12. EXISTING WOOD FLOORING TO BE REFINISHED. (BY OWNER)

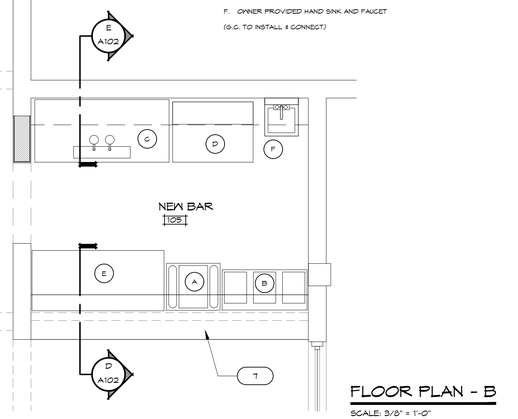
(Dx) = NEW DOOR. SEE DOOR SCHEDULE

(E) = EXISTING DOOR TO REMAIN



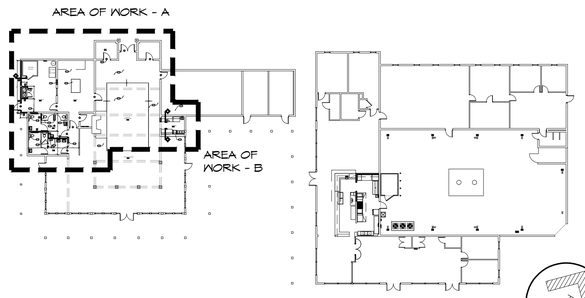
FLOOR PLAN - A

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



FLOOR PLAN - B

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



KEY PLAN

SCALE: N.T.S.

WALL PARTITION LEGEND:

EXISTING WALL TO REMAIN

P1 NEW FULL HEIGHT EXTERIOR WALL TO BOTTOM OF STRUCTURE ABOVE (NON LOAD BEARING) :

- 5/8" GYPSUM BOARD W/ FRP PANELS ON INTERIOR SIDE OF 1 1/4" X 6" X 20 GA. MTL. STUD @ 16" O.C. W/ 1 1/4" X 6" X 20 GA. TOP AND BOTTOM TRACK SECURED SLAB AND UNDERSIDE OF BEAM. BLOCKING W/ GOLD ROLLED CHANNELS W/ CLIPS @ THIRD POINT VERTICALLY. ON EXTERIOR, STUCCO TO MATCH EXISTING OVER GALVANIZED EXPANDED DIAMOND WIRE LATH W/ 30# FELT OVER "TYVEK" HOUSE WRAP OVER 5/8" CDX PLYWOOD SHEATHING W/ GALV. METAL PLY-CLIPS, SHEATHING TO BE NAILED W/ 8D GALV. NAILS @ 6" O.C. AT EDGES & 12" O.C. IN FIELD

P2 NEW 4" INTERIOR WALL FULL HEIGHT TO STRUCTURE ABOVE (NON LOAD BEARING) :

- 5/8" GYPSUM BOARD W/ LIGHT ORANGE PEEL TEXTURE PAINTED ON EACH SIDE OF 1 1/4" X 3 5/8" X 20 GA. MTL. STUD @ 16" O.C. W/ 1 1/4" X 3 5/8" X 20 GA. TOP RUNNER AND 1 1/4" X 3 5/8" X 20 GA. BOTTOM PLATE SECURED TO FLOOR/ SLAB AND BLOCKING W/ COLD ROLLED CHANNELS W/ CLIPS @ THIRD POINT VERTICALLY WITH SOUND ATTENUATION BATTS

P3 NEW 6" INTERIOR WALL FULL HEIGHT TO STRUCTURE ABOVE (NON LOAD BEARING) :

- 5/8" GYPSUM BOARD W/ LIGHT ORANGE PEEL TEXTURE PAINTED ON EACH SIDE OF 1 1/4" X 6" X 20 GA. MTL. STUD @ 16" O.C. W/ 1 1/4" X 6" X 20 GA. TOP AND BOTTOM PLATE SECURED TO FLOOR/ SLAB AND BLOCKING W/ COLD ROLLED CHANNELS W/ CLIPS @ THIRD POINT VERTICALLY WITH SOUND ATTENUATION BATTS

(X) EQUIPMENT LIST

A. OWNER PROVIDED UNDERBAR BASICS COCKTAIL UNIT MODEL CRI-12-24
B. OWNER PROVIDED 36" 3 COMPARTMENT SINK MODEL 009-43562X
C. OWNER PROVIDED DRAFT BEER COOLER MODEL TDD-2-HG (6017701)
D. OWNER PROVIDED BOTTLE COOLER MODEL TD-36-12 (36")
E. OWNER PROVIDED BACK BAR CABINET REFRIGERATED MODEL BB60NSD (60")
F. OWNER PROVIDED HAND SINK AND FAUCET
(G.C. TO INSTALL & CONNECT)

ROLANDO SOSA, ARCHITECT
FL LICENSE: AR 96264

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A NEW RENOVATION FOR:
CO OCALA MUNICIPAL GOLF CLUB
OCALA, FLORIDA

project no. 2136
by JP/SG
date 11.30.21
sheet no.
A100

BID DOCUMENTS

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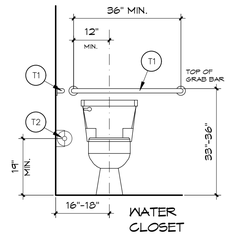
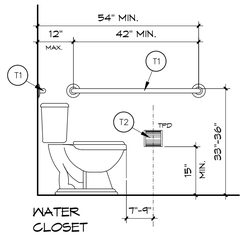


WATER CLOSET



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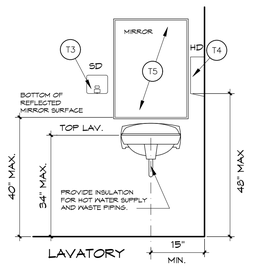


LAVATORY

TOILET ACCESSORY SCHEDULE

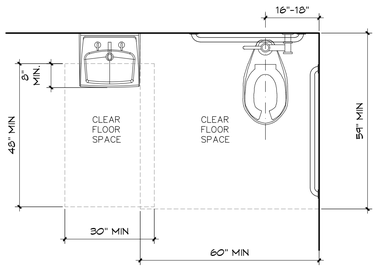
(AS REQUIRED TO MEET ADA)

- T1 GRAB BAR-STAINLESS STEEL 1 ½" - PEENED- ANCHORS AS REQUIRED x 36"-BEHIND EACH TOILET.
  GRAB BAR: BOBRICK B6806.99 x 42", ASI, A & J EQUIVALENTS.
- T2 TOILET TISSUE DISPENSER: STAINLESS STEEL MULTI-ROLL TOILET TISSUE DISPENSER.
  ONE AT EACH TOILET-BOBRICK-288: ASI, A & J EQUIVALENTS.
- T3 LIQUID SOAP DISPENSER: STAINLESS STEEL-ONE AT EACH SINK-BOBRICK-B4112.
  ASI, A & J EQUIVALENTS.
- T4 HAND DRYER BY XCELERATOR AIR XL-SB-ECO IN BRUSHED STAINLESS STELL (SEE ELECTRICAL PLAN FOR LOCATIONS)
- T5 MIRROR: STAINLESS STEEL FRAMELESS-THEFT RESISTANT SCREWS-24" x 36"-ONE AT EACH SINK. S.S. MIRRORS: BOBRICK-B-1556 2436: ASI, A & J EQUIVALENTS.

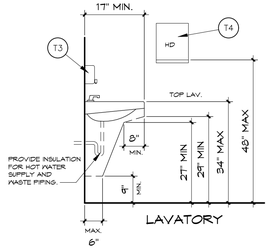
PIPE INSULATION NOTE:

PROVIDE 1" Ø WALL INSULATION (PIPE WRAP) BY IMCOA CO. OR EQUAL.

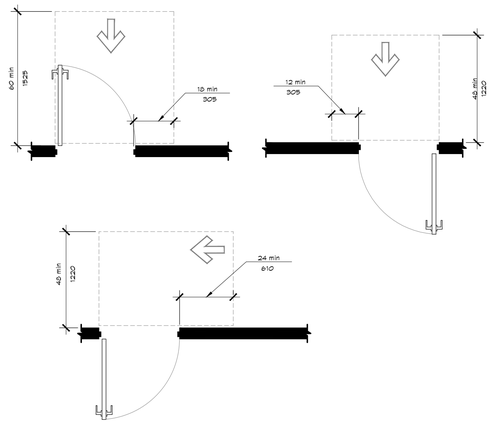
INSTALLATION OF TOILET ACCESSORIES SHALL COMPLY WITH FLORIDA BUILDING CODE (FBC) 7TH EDITION 2020: ACCESSIBILITY FOR BUILDING CONSTRUCTION AND THE FEDERAL AMERICANS WITH DISABILITIES ACT.



LAVATORY/ WATER CLOSET PLAN



RESTROOM ELEVATIONS



MANEUVERING CLEARANCES AT MANUAL SWINGING DOORS

HARDWARE SCHEDULE

HARDWARE GROUP NO. 1

For use on Door #(s): E

Provide each PR door(s) with the following:

QTY	DESCRIPTION	CATALOG NUMBER	FINISH	MFR
HARDWARE TO MATCH EXISTING				

HARDWARE GROUP NO. 2

For use on Door #(s): D1

Provide each PR door(s) with the following:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
4	EA	HINGE	5BB1 4.5 X 4.5	652	IVE
1	EA	PUSH PLATE	8200 4" X 16"	630	IVE
1	EA	PULL PLATE	8303 10" 4" X 16"	630	IVE
1	EA	SURFACE CLOSER	1461 REG OR PA AS REQ STD	689	LCN
1	EA	KICK PLATE	8400 10" X 2" LDW B-CS	630	IVE
1	EA	WALL STOP	WS406/407CVX	630	IVE
1	EA	SURFACE CLOSER	1461 RW/62A STD	689	LCN
1	EA	KICK PLATE	8400 10" X 2" LDW B-CS	630	IVE
1	EA	SILENCER	SR64	GRY	IVE

HARDWARE TO MATCH EXISTING

HARDWARE GROUP NO. 3

For use on Door #(s): D2 D6

Provide each SGL door(s) with the following:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
3	EA	HINGE	5BB1 4.5 X 4.5	652	IVE
1	EA	PUSH PLATE	8200 4" X 16"	630	IVE
1	EA	PULL PLATE	8303 10" 4" X 16"	630	IVE
1	EA	SURFACE CLOSER	1461 REG OR PA AS REQ STD	689	LCN
1	EA	KICK PLATE	8400 10" X 2" LDW B-CS	630	IVE
1	EA	WALL STOP	WS406/407CVX	630	IVE
1	EA	SURFACE CLOSER	1461 RW/62A STD	689	LCN
1	EA	KICK PLATE	8400 10" X 2" LDW B-CS	630	IVE
3	EA	SILENCER	SR64	GRY	IVE

HARDWARE TO MATCH EXISTING

HARDWARE GROUP NO. 4

For use on Door #(s): D3

Provide each SGL door(s) with the following:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
3	EA	HINGE	5BB1 4.5 X 4.5 NRP	630	IVE
1	EA	STOREROOM LOCK	ALX50P6 RHO	626	SCH
1	EA	SURFACE CLOSER	1461 SCUSH STD	689	LCN
1	EA	KICK PLATE	8400 10" X 2" LDW B-CS	630	IVE
1	EA	DOOR SWEEP	138A-S	A	ZER
1	EA	RAIN DRIP	142AA	AA	ZER
1	EA	GASKETING	1886BK PSA	BK	ZER
1	EA	THRESHOLD	65A	A	ZER

HARDWARE TO MATCH EXISTING

HARDWARE GROUP NO. 5

For use on Door #(s): D5

Provide each SGL door(s) with the following:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
3	EA	HINGE	5BB1 4.5 X 4.5	652	IVE
1	EA	STOREROOM LOCK	ALX50P6 RHO	626	SCH
1	EA	FLOOR STOP	FS436	626	IVE
3	EA	SILENCER	SR64	GRY	IVE

HARDWARE TO MATCH EXISTING

HARDWARE GROUP NO. 6

For use on Door #(s): D4

Provide each SGL door(s) with the following:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
3	EA	HINGE	5BB1 4.5 X 4.5	652	IVE
1	EA	CLASSROOM LOCK	ALX70P6 RHO	626	SCH
1	EA	WALL STOP	WS406/407CVX	630	IVE
3	EA	SILENCER	SR64	GRY	IVE

HARDWARE TO MATCH EXISTING

ROOM FINISH SCHEDULE

ROOM NO.	ROOM NAME	FLOOR	BASE	WALLS N	WALLS S	WALLS E	WALLS W	CEILING MAT'L	CEILING HGT.
100	MENS	CT	CT	CT TO 48"	CT TO 48"	CT TO 48"	CT TO 48"	ACT	8'-0"
101	WOMENS	CT	CT	CT TO 48"	CT TO 48"	CT TO 48"	CT TO 48"	ACT	8'-0"
102	STORAGE	EP	Eb	FRP	FRP	FRP	FRP	EXT	--
103	KITCHEN	--	-	-	-	-	-	EXT	--
104	EXISTING BANQUET	C	Vb	PAINT	PAINT	PAINT	PAINT	EXT	--
105	NEW BAR	LVP	Vb	PAINT	PAINT	PAINT	PAINT	EXT	--
106	EXISTING DANCE FLOOR	**MD	-	-	-	-	-	EXT	--
107	MECH. ROOM	-	-	-	-	-	-	-	--

ABBREVIATIONS:

FLOORING:

C	CARPET (920 SQ. YARD)
CT	PORCELAIN TILE (95 SQ. FT.)
EP	NON- SLIP EPOXY
LVP	LUXURY VINYL PLANK (95 SQ. FT.)
SC	SEALED CONCRETE (HYDROZO DOBLE 7)
WOOD	REFINISH EXISTING WOOD FLOORING (BY OWNER)

BASE:

GT	PORCELAIN TILE COVED BASE
Eb	6" EPOXY COVED BASE
Vb	VINYL BASE

WALLS:

CT	PORCELAIN TILE WAINSCOT, PAINT ABOVE
FRP	FIBER REINFORCED PANELS

CEILING:

ACT	ACOUSTICAL CEILING TILE, 2 x 2
EXT	EXISTING TO REMAIN

ALLOWANCE ARE FOR MATERIAL ONLY.

INSTALLATION, ADHESIVE, GROUT, ETC. BY G.C.

EPOXY PAINT SPECIFICATIONS

SPECIFICATIONS AND QUALITY OF DESIGN STANDARD (BASIS OF DESIGN) BASED ON KEY RESIN COMPANY; KEY QUARTZ CHIP 100.

KEY RESIN COMPANY: 888-943-4532, WWW.KEYRESIN.COM

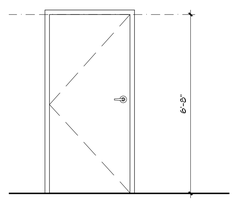
SYSTEM DESCRIPTION: HEAVY DUTY, THREE-COMPONENT EPOXY RESIN SURFACING BROADCASTED WITH COLORED CHIPS, GROUTED WITH KEY #512 CHEMICAL AND UV RESISTANT EPOXY AND SEALED WITH KEY #467-HS ALIPHATIC LOW ODOR 90% SOLIDS URETHANE (VOC CONTENT 100 G/L)

DOOR SCHEDULE

MARK	PAIR	SIZE WIDTH	SIZE HEIGHT	SIZE THICKNESS	TYPE	CONST. MATL	FRAME	REMARKS
E		EXISTING TO REMAIN						
D1		3'-0"	8'-0"	1 3/4"	A	S.C.WD	18 GA.	
D2		3'-0"	6'-8"	1 3/4"	A	S.C.WD	18 GA.	
D3		3'-0"	6'-8"	1 3/4"	A	16 GA. MTL	18 GA.	
D4		3'-0"	6'-8"	1 3/4"	A	16 GA. MTL	18 GA.	
D5		3'-0"	6'-8"	1 3/4"	A	S.C.WD	18 GA.	REMOVE EXISTING AND REPLACE WITH NEW 6-PANEL TO MATCH OTHERS
D6		3'-0"	6'-8"	1 3/4"	A	S.C.WD	18 GA.	

DOOR NOTES:

1. ALL FRAMES SHALL BE METAL
2. ALL DOORS SHALL HAVE WALL STOPS.



FLUSH PAINT GRADE DOOR

INTERIOR Paint Schedule

Christopher Olden, CSI, CDT chris.m.olden@sherwin.com 407-694-7994

SHEEN	SUBSTRATE	PRIMER COAT	TWO FINISH COATS
	GYPSUM BOARD-CEILING	PROMAR CEILING PAINT, A27W0050	PROMAR CEILING PAINT, A27W0050
	GYPSUM WA L L BOARD	HIGH BUILD INTERIOR LATEX PRIMER B28W08601	SCUFF TUFF INTERIOR WB ENAMEL MATTE, S23 SERIES
	CONCRETE including TILT-UP	ULTRA-CRETE SOLVENT BORNE SMOOTH, B46W050 SERIES	PRO INDUSTRIAL ACRYLIC MATTE, B66-610 SERIES (OPTIONAL)
	CONCRETE MASONRY UNITS (CMU)	PRO INDUSTRIAL HEAVY-DUTY BLOCK FILLER, B42W150	PRO INDUSTRIAL ACRYLIC MATTE, B66-610 SERIES
	OPEN CEILING & BAR JOIST	PRO INDUSTRIAL PRO-CRYL PRIMER B66-1300 SERIES (Spot Prime)	PRO INDUSTRIAL WATERBORNE ACRYLIC DRYFALL FLAT, B42W181
EGGSHEL SATIN LOW SHEEN	PAINTED WOOD	PREMIUM WALL & WOOD PRIMER B28W08111	PRO INDUSTRIAL WB ALKYD URETHANE LOW SHEEN B53-1250 SERIES
	STAINED WOOD	MINWAX PERFORMANCE SERIES TINTABLE WOOD STAIN	MINWAX PERFORMANCE SERIES FAST-DRY VARNISH Satin
	GWB TYPICAL PAINT FINISH	HIGH BUILD INTERIOR LATEX PRIMER B28W08601	PROMAR 200 HP ZERO VOC LOW GLOSS EG-SHEL, B41-1900 SERIES
	GWB PAINT W/SANITIZING TECH.	HIGH BUILD INTERIOR LATEX PRIMER B28W08601	SUPERPAINT SATIN W/SANITIZING TECHNOLOGY, A87W1
	GYPSUM BOARD EPOXY FINISH	HIGH BUILD INTERIOR LATEX PRIMER B28W08601	PRO INDUSTRIAL PRE-CATALYZED EPOXY EG-SHEL, K45W1150 SERIES
	METAL-FERROUS & GALVANIZED	PRO INDUSTRIAL PRO-CRYL PRIMER B66-1300 SERIES	PRO INDUSTRIAL WB ALKYD URETHANE LOW SHEEN B53-1250 SERIES
	CONCRETE, EXCEPT TILT-UP	LOXON CONCRETE & MASONRY PRIMER LX02W50	PROMAR 200 HP ZERO VOC EG-SHEL, B20-1900 SERIES
	CONCRETE MASONRY UNITS (CMU) PAINT FINISH	PRO INDUSTRIAL HEAVY-DUTY BLOCK FILLER, B42W150	PROMAR 200 HP ZERO VOC EG-SHEL, B20-1900 SERIES
	CONCRETE MASONRY UNITS (CMU) EPOXY FINISH	PRO INDUSTRIAL HEAVY-DUTY BLOCK FILLER, B42W150	PRO INDUSTRIAL PRE-CATALYZED EPOXY EG-SHEL, K45W1150 SERIES
	OPEN CEILING & BAR JOIST	PRO INDUSTRIAL PRO-CRYL PRIMER B66-1300 SERIES (Spot Prime)	PRO INDUSTRIAL WATERBORNE ACRYLIC DRYFALL EG-SHEL, B42W82
SEMI-GLOSS	PAINTED WOOD	PREMIUM WALL & WOOD PRIMER B28W08111	PRO INDUSTRIAL WB ALKYD URETHANE SEMI-GLOSS B53-1150 SERIES
	STAINED WOOD	MINWAX PERFORMANCE SERIES TINTABLE WOOD STAIN	MINWAX PERFORMANCE SERIES FAST-DRY VARNISH 1 ct Gloss, 1 ct Satin
	GYPSUM BOARD PAINT FINISH	HIGH BUILD INTERIOR LATEX PRIMER B28W08601	PROMAR 200 HP ZERO VOC SEMI-GLOSS, B31-1900 SERIES
	GYPSUM BOARD EPOXY FINISH HIGH	BUILD INTERIOR LATEX PRIMER B28W08601	PRO INDUSTRIAL PRE-CATALYZED EPOXY SEMI-GLOSS, K46W1150 SERIES
	METAL-FERROUS & GALVANIZED PRO	INDUSTRIAL PRO-CRYL PRIMER B66-1300 SERIES	PRO INDUSTRIAL WB ALKYD URETHANE SEMI-GLOSS, B53-1150 SERIES
	CONCRETE EXCEPT TILT-UP	LOXON CONCRETE & MASONRY PRIMER LX02W50	PRO INDUSTRIAL ACRYLIC SEMI-GLOSS, B66-650 SERIES
	CONCRETE MASONRY UNITS (CMU) PAINT FINISH	PRO INDUSTRIAL HEAV- DUTY BLOCK FILLER, B42W150	PRO INDUSTRIAL ACRYLIC SEMI-GLOSS, B66-650 SERIES
	CONCRETE MASONRY UNITS (CMU) EPOXY FINISH	PRO INDUSTRIAL HEAVY-DUTY BLOCK FILLER, B42W150	PRO INDUSTRIAL PRE-CATALYZED EPOXY SEMI-GLOSS, K48W1150 SERIES
	OPEN CEILING & BAR JOIST	PRO INDUSTRIAL PRO-CRYL PRIMER B66-1300 SERIES (Spot Prime)	PRO INDUSTRIAL WATERBORNE ACRYLIC DRYFALL SEMI-GLOSS, B42W83
	PAINTED WOOD	PREMIUM WALL & WOOD PRIMER B28W08111	PRO INDUSTRIAL WB ALKYD URETHANE GLOSS B53-1050 SERIES
• GLOSS	METAL-FERROUS & GALVANIZED (handrails)	PRO INDUSTRIAL PRO-CRYL PRIMER B66-1300 SERIES	PRO INDUSTRIAL PRE-CATALYZED WB URETHANE GLOSS, B65W11205SERIES
	FLOORS- CONCRETE	AQUARMOR WB WATER-BASED EPOXY, SP 3460/GP3460B01	AQUARMOR WBU WATER-BASED URETHANE, GLOSS GP4410/GP4410B01

EXTERIOR Paint Schedule

SHEEN	SUBSTRATE	PRIMER COAT	TWO FINISH COATS
FLAT	CONCRETE, STUCCO, EIFS, CEMENT BOARD SIDING	(Optional) LOXON CONCRETE & MASONRY PRIMER LX02W50	LOXON SELF-CLEANING ACRYLIC COATING, LX13W50 SERIES
	CONCRETE MASONRY UNITS	PRO INDUSTRIAL HEAVY-DUTY BLOCK FILLER, B42W150	LOXON SELF-CLEANING ACRYLIC COATING, LX13W50 SERIES
SATIN EGGSHELL	PAINTED WOOD	EXTERIOR WOOD PRIMER Y24W8020	RESILIENCE EXTERIOR SATIN K43 SERIES
	GYPSUM BOARD	PREPRITE PROBLOCK PRIMER, B51W620	RESILIENCE EXTERIOR SATIN K43 SERIES
	METAL-FERROUS & GALVANIZED	PRO INDUSTRIAL PRO-CRYL PRIMER B66-1310 SERIES	PRO INDUSTRIAL DTM ACRYLIC EG-SHEL, B66-1250 SERIES
	CONCRETE, STUCCO, EIFS, CEMENT BOARD SIDING	LOXON CONCRETE & MASONRY PRIMER LX02W50	RESILIENCE EXTERIOR SATIN K43 SERIES
	CONCRETE MASONRY UNITS (CMU)	PRO INDUSTRIAL HEAVY-DUTY BLOCK FILLER, B42W150	RESILIENCE EXTERIOR SATIN K43 SERIES
SEMI - GLOSS/ GLOSS	PAINTED WOOD	EXTERIOR WOOD PRIMER Y24W8020	PRO INDUSTRIAL WB ALKYD URETHANE SEMI-GLOSS B53-1150 SERIES
	METAL-FERROUS & GALVANIZED	PRO INDUSTRIAL PRO-CRYL PRIMER B66-1300 SERIES	PRO INDUSTRIAL WB ALKYD URETHANE SEMI-GLOSS, B53-1150 SERIES
	CONCRETE, STUCCO, EIFS, CEMENT BOARD SIDING	LOXON CONCRETE & MASONRY PRIMER LX02W50	RESILIENCE EXTERIOR LATEX GLOSS, K44 SERIES
	CONCRETE MASONRY UNITS (CMU)	PRO INDUSTRIAL HEAVY-DUTY BLOCK FILLER, B42W150	RESILIENCE EXTERIOR LATEX GLOSS, K44 SERIES
	CONCRETE WALKWAYS	CONFLEX FLEXIBLE CONCRETE WATERPROOFER, CF14W50	AQUARMOR WBU WATER-BASED URETHANE, GLOSS GP4410/GP4410B01
	CONCRETE DRIVEWAYS	NOT REQUIRED	H&C HEAVY SHIELD CONCRETE & DRIVEWAY ENAMEL
GLOSS	METAL-FERROUS & GALVANIZED (handrails or exposed structural)	PRO INDUSTRIAL PRO-CRYL PRIMER B66-1300 SERIES	PRO INDUSTRIAL PRE-CATALYZED WB URETHANE GLOSS, B65W11205SERIES

January 2021 The products in this table are suitable for Commercial, Education, Healthcare and Hospitality projects.

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A NEW RENOVATION FOR:
CO OCALA MUNICIPAL GOLF CLUB
OCALA, FLORIDA

project no. 2136

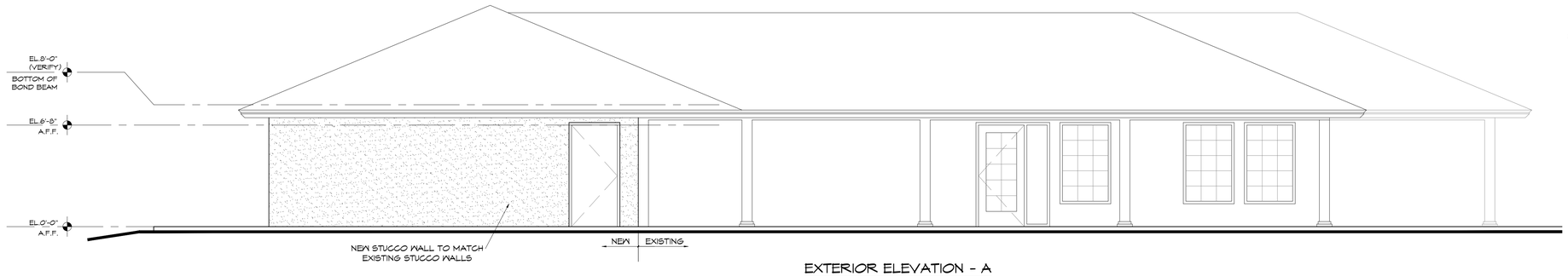
by	date
JP/SG	11.30.21

sheet no.

A101

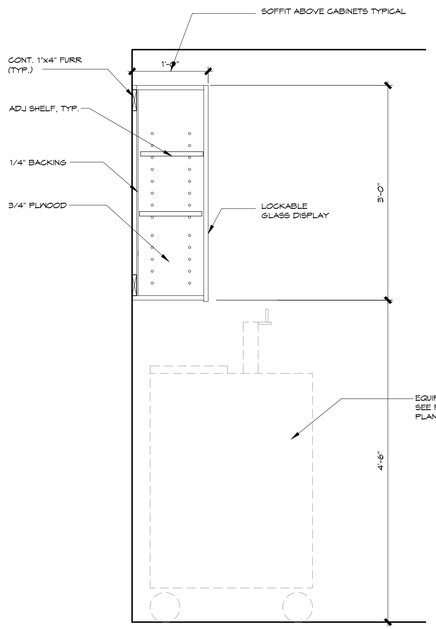
BID DOCUMENTS

ROLANDO SOSA, ARCHITECT
FL LICENSE: AR 96264



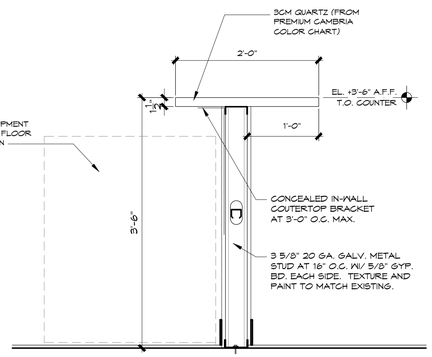
EXTERIOR ELEVATION - A

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



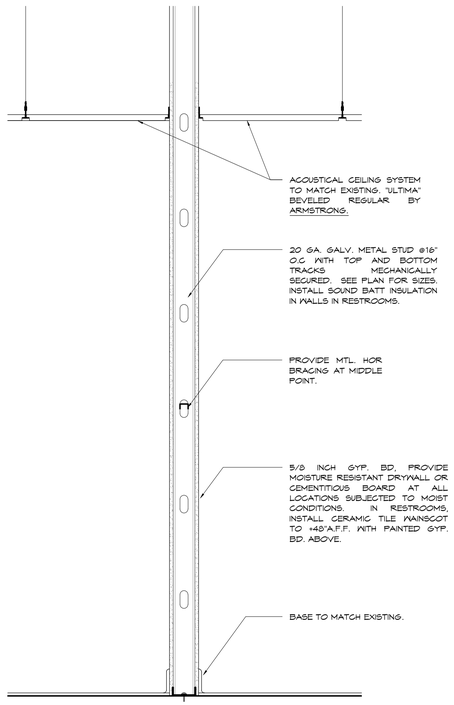
TYP. CABINET SECTION-E

SCALE: 1" = 1'-0"



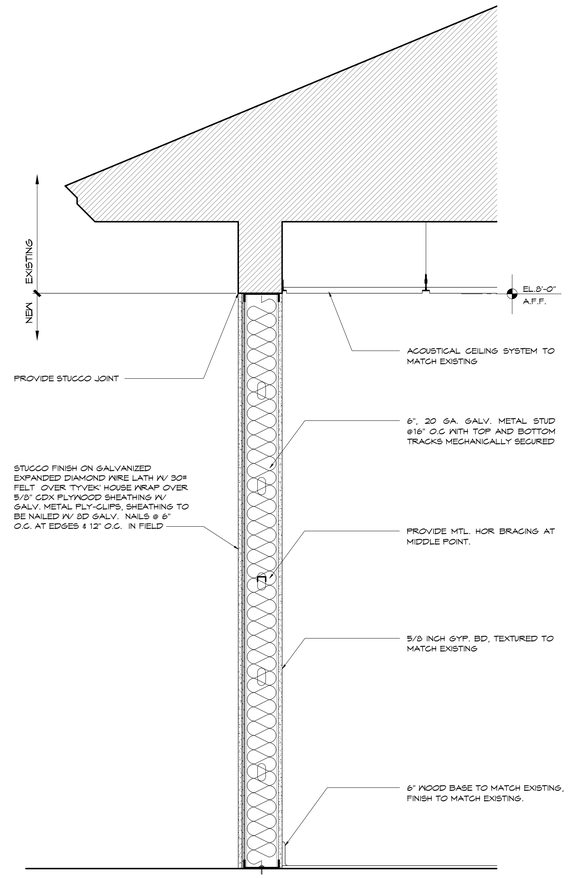
CABINET SECTION- D

SCALE: 1" = 1'-0"



TYP. WALL SECTION - C

SCALE: 1" = 1'-0"



WALL SECTION - A

SCALE: 1" = 1'-0"

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A NEW RENOVATION FOR:
CO OCALA MUNICIPAL GOLF CLUB
OCALA, FLORIDA

project no. 2136

by	date
JP/SG	11.30.21

sheet no.

A102

BID DOCUMENTS

DEMOLITION SCHEDULE

1. EXISTING BAR COUNTERTOP TO BE REMOVED.
2. EXISTING OVERHEAD SOFFIT ABOVE BAR COUNTERTOP TO BE REMOVED AT THE BAR COUNTERTOP LOCATION.
3. EXISTING TROPHY DISPLAY CASE TO BE MOVED BY OWNER.
4. EXISTING WALL TO BE REMOVED AND IT'S ENTIRETY WITH ALL THE FINISHES.
5. EXISTING DOOR AND FRAME TO BE REMOVED.
6. EXISTING WATER HEATER SYSTEM TO REALLY REMOVED AND IT'S ENTIRETY. ELECTRICAL DISCONNECT TO BE REMOVED.PLUMBING TO BE CAB FLUSH WITH THE FLOOR AND WALL.
7. EXISTING FLOOR MOUNTED MOP SINK AND FAUCET TO BE REMOVED. PLUMBING TO BE FLUSH WITH SLAB AND WALL.
8. EXISTING FLOORING TO BE REMOVED.
9. EXISTING THREE COMPARTMENT STAINLESS STEEL SINK TO BE REMOVED AND REUSED. EXISTING PLUMBING TO BE CAPPED FLUSH WITH THE WALL AND FLOOR.
10. EXISTING CABINET AND RESIDENTIAL STYLE EXHAUST HOOD TO BE REMOVED. EXHAUST HOOD VENTING TO BE CAT FLUSH IF REQUIRED.
11. EXISTING WELL HUNG HENSING TO BE REMOVED PLUMBING TO BE CAPPED FLUSH WITH WALL AND OR FLOOR.
12. EXISTING LIGHTS TO BE REMOVED AND CAPPED FLUSH WOOD CEILING.

GENERAL DEMOLITION NOTES

CONTRACTOR SHALL COORDINATE W/ OWNER REGARDING HOURS OF OPERATION AS NOT TO DISRUPT DAILY BUSINESS ACTIVITY. PROVIDE SAFE OWNER ACCESS DURING CONSTRUCTION PERIOD AND LOCKABLE FRONT ENTRANCE W/ TENANT AND CONTRACTOR HAVING KEYED ACCESS.

USE VISQUEEN TO PROTECT PARTS OF THE EXISTING WORK SCHEDULED TO REMAIN. CUT AWAY CAREFULLY THE PARTS TO BE DEMOLISHED TO REDUCE THE AMOUNT OF NECESSARY REPAIRS.

PROVIDE TEMPORARY SUPPORT TO STRUCTURE AS NEEDED DURING CUTTING OF NEW OPENINGS.

PREVENT ACCUMULATION OF DEBRIS AND OVERLOADING OF ANY PARTS OF THE STRUCTURE.

PREVENT DAMAGE TO OVERHEAD WIRES, UNDERGROUND CABLES, TELEPHONE, WATER AND SEWER LINES DURING DEMOLITION OPERATIONS.

AFTER COMPLETION OF THE DEMOLITION WORK, LEAVE SITE NEAT & ORDERLY ON A DAILY BASIS.

CONTRACTOR IS RESPONSIBLE FOR MEANS & METHODS NCLUDING ESTABLISHING AND MAINTAINING A SAFE OSHA COMPLIANT WORK ENVIRONMENT.
CONTRACTOR SHALL ARRANGE WITH THE UTILITY COMPANIES FOR THE DISCONNECTION OF SERVICES BEFORE STARTING DEMOLITION WORK AS REQUIRED.
PREVENT ACCESS OF UNAUTHORIZED PERSONS TO PARTLY DEMOLISHED STRUCTURES.

ITEMS FOR REUSE SHALL BE STORED BY CONTRACTOR ON SITE IN OWNER'S BUILDING AT SPECIFIED LOCATION. ITEMS ARE TO BE CLEANED, PATCHED, REFINISHED, PAINTED OR REPAIRED AS REQUIRED PRIOR TO INSTALLATION.

ITEMS NOT TO BE RETAINED BY OWNER SHALL BE DISPOSED OF BY THE CONTRACTOR AT THE CONTRACTOR'S EXPENSE.

CONTRACTOR IS RESPONSIBLE FOR LEGALLY DISPOSING OF ALL MATERIALS AND ASSOCIATED COST OF INTERIM STORAGE FACILITIES (DUMPSTER).

PRIOR TO COMMENCEMENT OF DEMOLITION WORK CONTRACTOR SHALL INVESTIGATE EXISTING LOAD BEARING WALL CONDITIONS. IF LOAD BEARING WALLS ARE ENCOUNTERED AND NEED ALTERATIONS DUE TO NEW FLOOR PLAN LAYOUT,THE STRUCTURE SHALL BE SHORED, BRACED AND SUPPORTED AS NEEDED TO MAINTAIN STRUCTURAL INTEGRITY DURING WALL STRUCTURE MODIFICATIONS.

AFTER SCHEDULED DEMOLITION OF WALLS, FLOORS, CEILINGS CONTRACTOR SHALL PATCH WALLS, FLOORS, CEILINGS W/ MATERIALS TO MATCH ADJACENT WALL, FLOOR, CEILING MATERIAL AS NEEDED FOR THE PROPER APPLICATION OF NEW FINISHES. PROVIDE FLUSH CONTINUOUS WALL, FLOOR, CEILING FINISHES.

POWER DATA RECEPTACLES COMMUNICATION SYSTEM AND RELATED WIRING THAT CONFLICT W/ SCHEDULED CONSTRUCTION SHALL BE REMOVED.

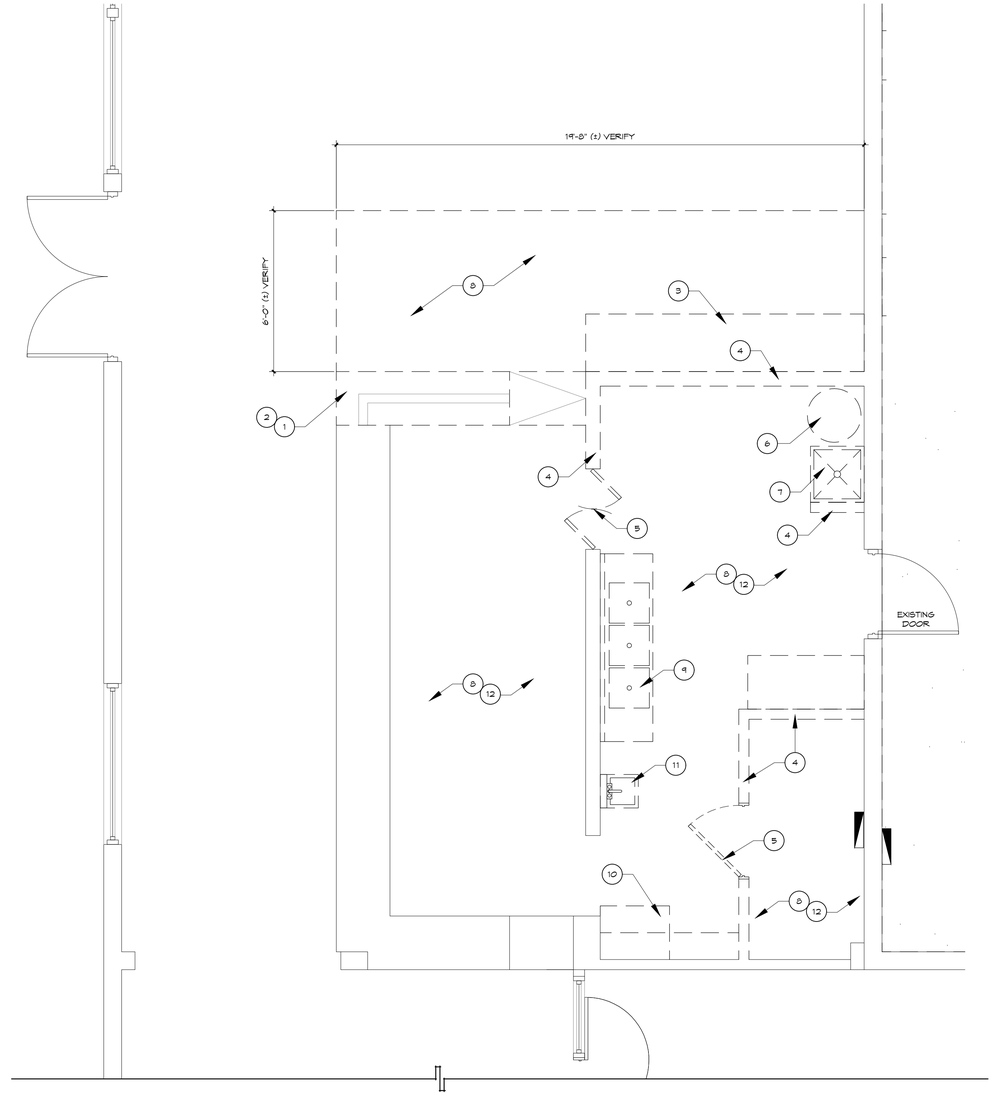
H.V.A.C. GRILLES AND RELATED DUCTS AND HARDWARE THAT CONFLICT W/ SCHEDULED CONSTRUCTION SHALL BE RELOCATED AND PROPERLY REINSTALLED. SEE MECHANICAL FOR ADDITIONAL INFORMATION.

PROVIDE TRENCHING, FLOOR, WALL AND CEILING PENETRATIONS AS NEEDED FOR THE INSTALLATION OF SCHEDULED PLUMBING FIXTURES. ACCESS TO PLUMBING LINES LOCATED ABOVE FLOOR CEILING AREAS SHALL BE COORDINATED WITH OWNER AS NEEDED. PLUMBING LINES SHALL BE CAPPED OR REMOVED AS REQUIRED FOR SCHEDULED CONSTRUCTION. ALL FINISHES ON FIRST FLOOR SHALL BE PATCHED AND REFINISHED AS NEEDED TO PROVIDE FLUSH, SMOOTH AND CONTINUOUS FINISHES.

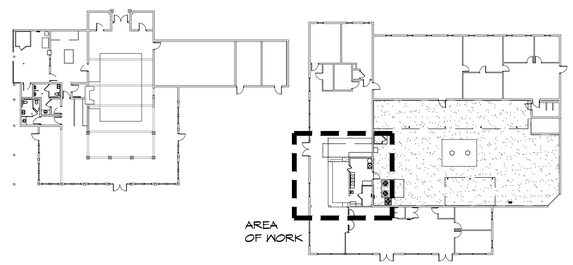
REMOVE EXISTING SUBSTRATES WHICH ARE DAMAGED OR NOT ACCEPTABLE FOR THE APPLICATION OF SCHEDULED FINISHES.

FLOOR, WALL AND CEILING FINISHES THAT CONFLICT W/ THE APPLICATION OF SCHEDULED FINISHES SHALL BE REMOVED AND SURFACE PREPARED AS NEEDED FOR THE PROPER APPLICATION OF NEW FINISHES.

EXISTING DEMOLITION MUST BE COMPLETE FROM FINISH FLOOR TO BOTTOM OF DECK.
ALL EXISTING PENETRATIONS THRU CONCRETE SLAB MUST BE CAPPED A MINIMUM OF 6" BELOW SLAB. EXISTING CONCRETE SLABS AND EDGES MUST BE LEFT READY TO ACCEPT PREPERATIONS FOR VCT OR CARPET.



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



KEY PLAN
SCALE: N.T.S.

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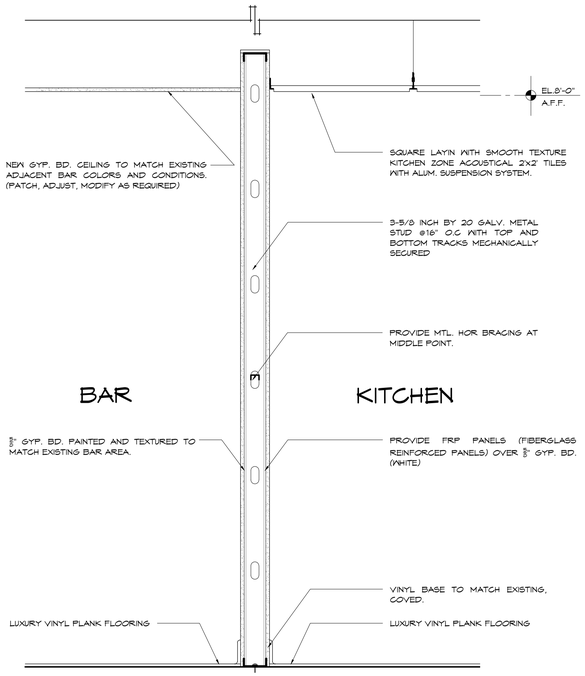
A NEW RENOVATION FOR:
CO OCALA MUNICIPAL GOLF CLUB
OCALA, FLORIDA

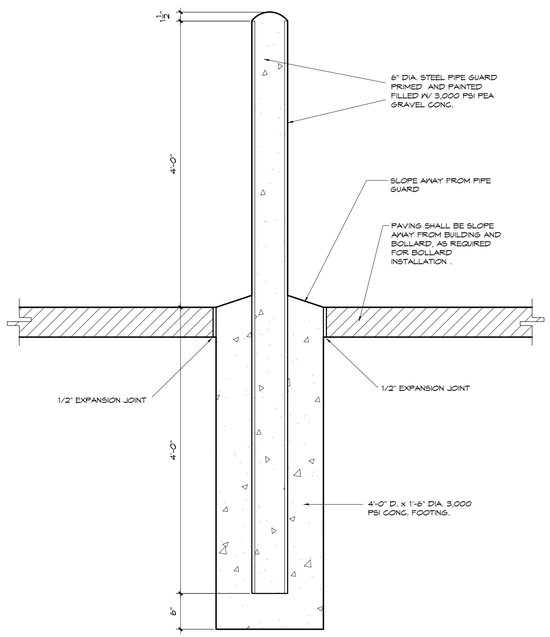
project no. 2136
by JP/SG
date 11.30.21
sheet no. D200

BID DOCUMENTS



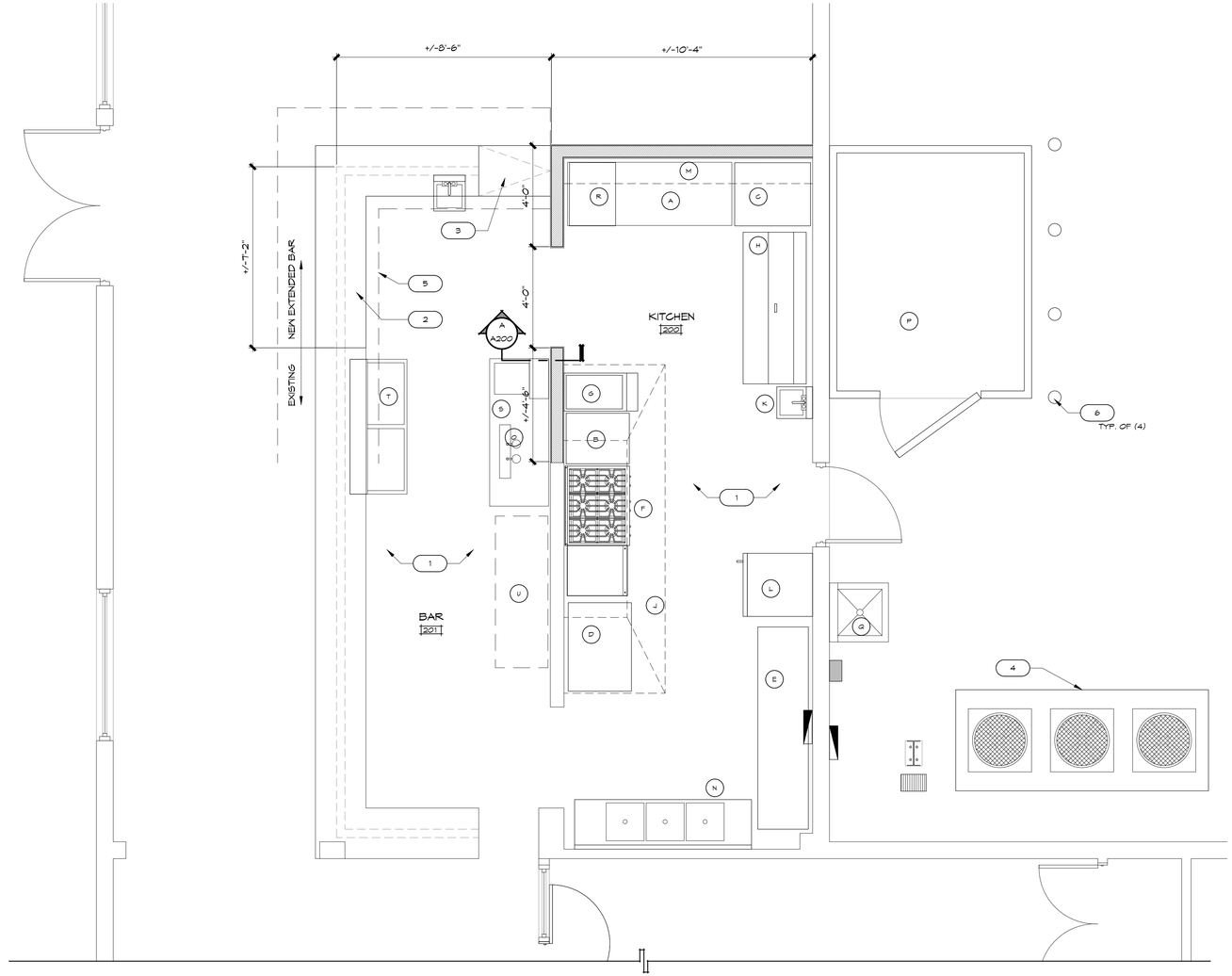
TYP. WALL SECTION - A

SCALE: 1" = 1'-0"



6" BOLLARD DETAIL-B

SCALE: 1" = 1'-0"



FLOOR PLAN

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

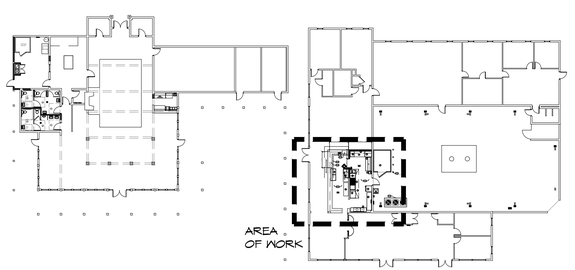
PLAN NOTES:

1. NEW VINYL PLANK FLOORING THROUGHOUT NEW KITCHEN/BAR AREA. 95 SQ. FT. MATERIAL ONLY. (INSTALL, ADHESIVE, ETC. IN BASE BID)
2. EXTEND NEW BAR TO MATCH EXISTING BAR IN PLAN AND PROFILE.
3. NEW 28" WIDE FLIP-TOP DOOR TO MATCH BAR TOP PROFILE.
4. NEW CONCRETE PAD WITH RELOCATED CONDENSING UNITS. 28" BAR FLIP-TOP DOOR. MATCH BAR TOP PROFILE
5. CEILING SOFFIT TO MATCH EXISTING AND SOFFIT ABOVE WITH CROWN MOLDING
6. CONCRETE BOLLARD. SEE DETAIL B/A200.

EQUIPMENT LIST

A. OWNER PROVIDED NEW REACH-IN FREEZER. MODEL F3A-FS.
B. OWNER PROVIDED 24" WIDE STAINLESS STEEL TABLE WITH BACKSPLASH
C. OWNER PROVIDED 36" WIDE STAINLESS STEEL TABLE WITH BACKSPLASH
D. OWNER PROVIDED 42" WIDE STAINLESS STEEL TABLE WITH BACKSPLASH
E. OWNER PROVIDED 48" WIDE STAINLESS STEEL TABLE WITH BACKSPLASH
F. OWNER PROVIDED NEW GAS RANGE/GRIDDLE AND DUAL OVEN COMBO MODEL S60DD-2GR.
G. OWNER PROVIDED DEEP FRYER MODEL 65C+S (617001)
H. OWNER PROVIDED PREP TABLE MODEL EPR2
I. NOT USED
J. OWNER PROVIDED NEW STAINLESS STEEL EXHAUST HOOD WITH FIRE SUPPRESSION SYSTEM
K. EXISTING HAND SINK AND FAUCET TO BE RELOCATED TO THIS LOCATION.
L. OWNER PROVIDED REFRIGERATOR MODEL R1A-FS (5481501)
M. IONNER PROVIDED 2' WIDE STAINLESS STEEL SHELVING
N. OWNER PROVIDED 3-COMPARTMENT STAINLESS STEEL SINK WITH BACKSPLASH
O. OWNER PROVIDED KEG COOLER REFRIGERATOR
P. OWNER PROVIDED NEW 8'-0 X 10'-0 WALK IN COOLER
Q. EXISTING SERVICE SINK AND FAUCET TO BE RELOCATED TO THIS LOCATION.
R. OWNER PROVIDED COOK HOLD OVEN MODEL CHV1-05W
S. OWNER PROVIDED DRAFT BEER COOLER MODEL TCB-35BD-N6
T. OWNER PROVIDED BOTTLE COOLER MODEL TD-65-24-HG
U. OWNER PROVIDED BACK BAR CABINET REFRIGERATED MODEL TBB-24GAL-72G-HC-LD (6571101)

ALL TABLES TO BE 16 GAUGE, 304 STAINLESS STEEL COMMERCIAL WORK TABLE WITH GALVANIZED LEGS AND UNDERSHELF AND 4" HIGH BACKSPLASH.



KEY PLAN

SCALE: N.T.S.

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OCALA, FLORIDA

project no. 2136

by	date
JP/SG	11.30.21

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A200

BID DOCUMENTS

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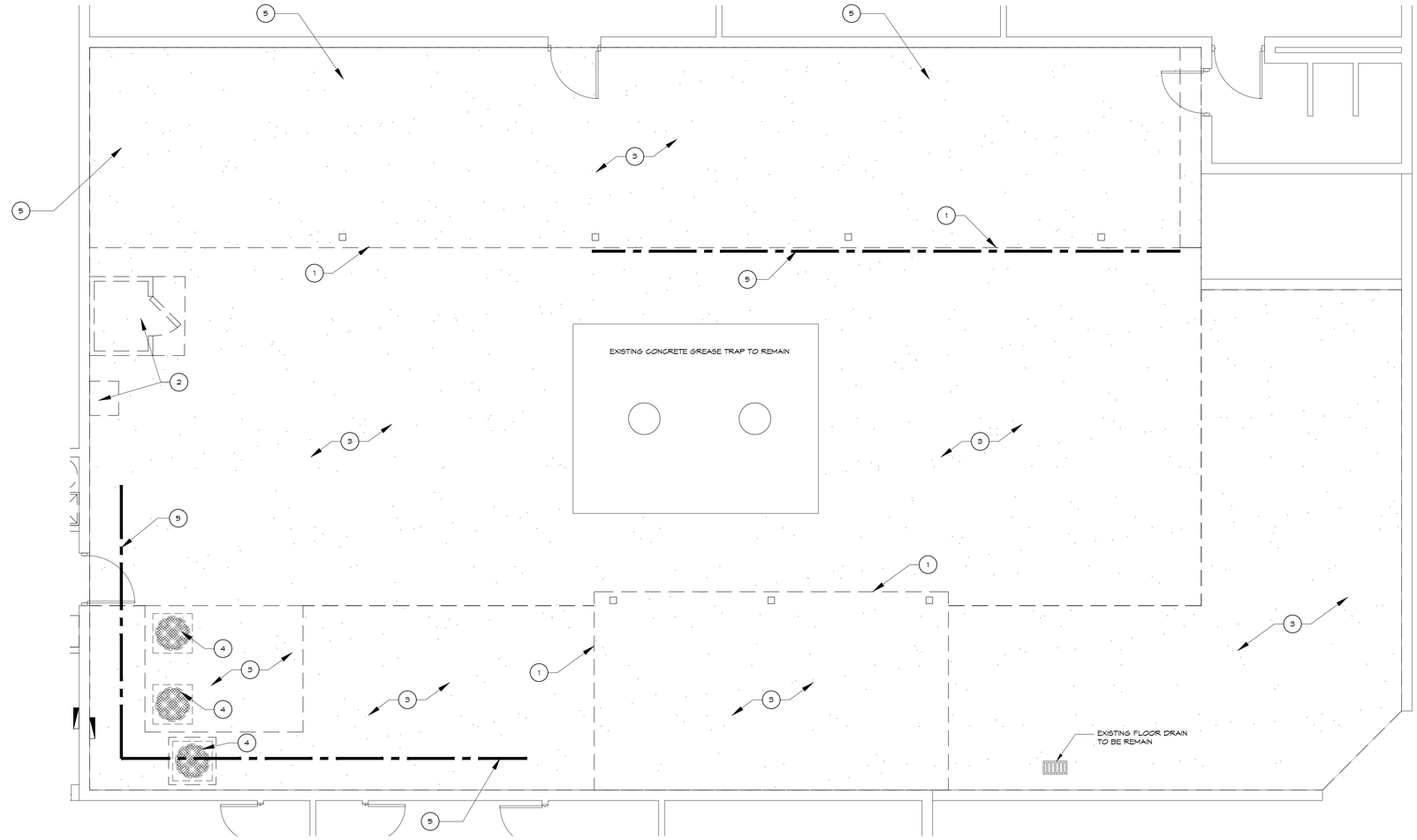


DEMOLITION PLAN

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

NOTE: G.C. TO HIRE AN U.G. LOCATE COMPANY TO LOCATE ALL EXISTING UNDERGROUND UTILITIES AND INVERT ELEVATIONS OF PLUMBING, WASTE, ELECTRICAL CONDUITS AND PROVIDE A COPY TO CITY AND ARCHITECT FOR REVIEW PRIOR TO COMMENCEMENT OF WORK

DEMOLITION SCHEDULE

1. EXISTING ALUMINUM ROOF OVER, COLUMNS BEAMS AND STRUCTURE TO BE REMOVED IN ITS ENTIRELY. EXISTING COLUMN CONNECTIONS TO FLOOR TO BE PATCHED AS NECESSARY LEAVING IT FLUSH.
2. EXISTING SMALL WALK-IN COOLER AND COMPRESSOR TO BE REMOVED. OWNER TO RETAIN AND PROVIDE LOCATION FOR GC TO DELIVER.
3. EXISTING CONCRETE SLAB TO BE REMOVED.
4. EXISTING HVAC COMPRESSORS TO BE REMOVED TEMPORARILY, DURING SLAB DEMOLITION & CONCRETE POUR & RE-INSTALLED IN SAME GENERAL LOCATION.
5. EXISTING GUTTER AND DOWNSPOUT SYSTEM TO BE REMOVED

GENERAL DEMOLITION NOTES

CONTRACTOR SHALL COORDINATE W/ OWNER REGARDING HOURS OF OPERATION AS NOT TO DISRUPT DAILY BUSINESS ACTIVITY. PROVIDE SAFE OWNER ACCESS DURING CONSTRUCTION PERIOD AND LOCKABLE FRONT ENTRANCE W/ TENANT AND CONTRACTOR HAVING KEYED ACCESS.

USE VISQUEEN TO PROTECT PARTS OF THE EXISTING WORK SCHEDULED TO REMAIN. CUT AWAY CAREFULLY THE PARTS TO BE DEMOLISHED TO REDUCE THE AMOUNT OF NECESSARY REPAIRS.

PREVENT ACCUMULATION OF DEBRIS AND OVERLOADING OF ANY PARTS OF THE STRUCTURE.

PREVENT DAMAGE TO OVERHEAD WIRES, UNDERGROUND CABLES, TELEPHONE, WATER AND SEWER LINES DURING DEMOLITION OPERATIONS.

AFTER COMPLETION OF THE DEMOLITION WORK, LEAVE SITE NEAT & ORDERLY ON A DAILY BASIS.

CONTRACTOR IS RESPONSIBLE FOR MEANS & METHODS INCLUDING ESTABLISHING AND MAINTAINING A SAFE OSHA COMPLIANT WORK ENVIRONMENT.

CONTRACTOR SHALL ARRANGE WITH THE UTILITY COMPANIES FOR THE DISCONNECTION OF SERVICES BEFORE STARTING DEMOLITION WORK AS REQUIRED.

PREVENT ACCESS OF UNAUTHORIZED PERSONS TO PARTLY DEMOLISHED STRUCTURES.

ITEMS FOR REUSE SHALL BE STORED BY CONTRACTOR ON SITE IN OWNER'S BUILDING AT SPECIFIED LOCATION. ITEMS ARE TO BE CLEANED, PATCHED, REFINISHED, PAINTED OR REPAIRED AS REQUIRED PRIOR TO INSTALLATION.

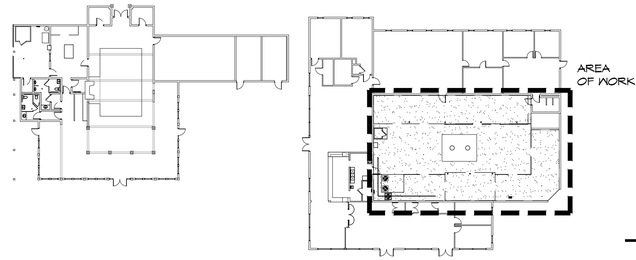
ITEMS NOT TO BE RETAINED BY OWNER SHALL BE DISPOSED OF BY THE CONTRACTOR AT THE CONTRACTOR'S EXPENSE.

EXISTING ASPHALT , TREES , SPRINKLER HEADS , AND MISCELLANEOUS ITEMS THAT CONFLICT W/ PROPOSED CONSTRUCTION SHALL BE COORDINATED BY GENERAL CONTRACTOR FOR REMOVAL AND / OR RELOCATION PRIOR TO COMMENCEMENT OF WORK .

PROVIDE TRENCHING, FLOOR, WALL AND CEILING PENETRATIONS AS NEEDED FOR THE INSTALLATION OF SCHEDULED PLUMBING FIXTURES. ACCESS TO PLUMBING LINES LOCATED ABOVE FLOOR CEILING AREAS SHALL BE COORDINATED WITH OWNER AS NEEDED. PLUMBING LINES SHALL BE CAPPED OR REMOVED AS REQUIRED FOR SCHEDULED CONSTRUCTION. ALL FINISHES ON FIRST FLOOR SHALL BE PATCHED AND REFINISHED AS NEEDED TO PROVIDE FLUSH, SMOOTH AND CONTINUOUS FINISHES.

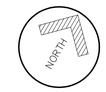
ALL EXISTING PENETRATIONS THRU CONCRETE SLAB MUST BE CAPPED A MINIMUM OF 6" BELOW SLAB. EXISTING CONCRETE SLABS AND EDGES MUST BE LEFT READY TO ACCEPT PREPERATIONS FOR VCT OR CARPET.

THE GENERAL CONTRACTOR MUST FIELD VERIFY ALL EXISTING ROOF DRAIN AND DOWNSPOUT DISCHARGE POINTS PRIOR TO CONSTRUCTION. MODIFY, REDIRECT, REPAIR & REPLACE AS REQUIRED FOR A COMPLETE AND PROPER OPERATION STORM DRAIN SYSTEM.



KEY PLAN

SCALE: N.T.S.



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project no. 2136

by JP/SG | date 11.30.21

sheet no.

D300

BID DOCUMENTS

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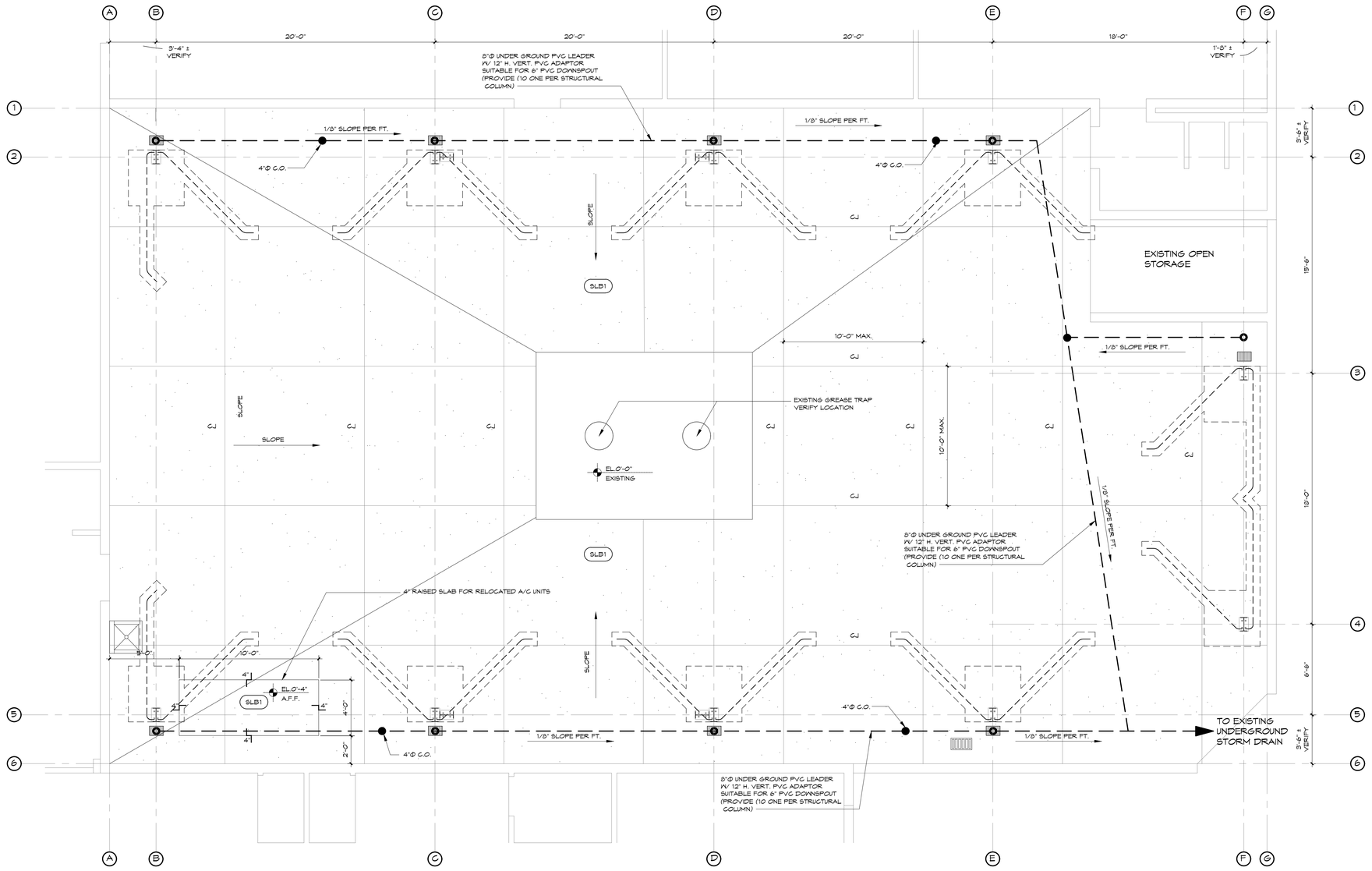
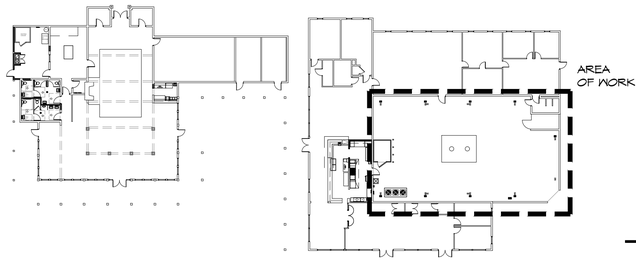


FLOOR PLAN

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

LEGEND

EL.0'-0" A.F.F.	INDICATES ASSUMED FINISH FLOOR ELEVATION ABOVE MAIN HOUSE FINISH FLOOR
EJ	1/2" REFLEX RUBBER EXPANSION JOINT
CJ	SAW CUT JOINT, MIN CUT 1/4" OF THE THICKNESS OF FINISH CONCRETE SLAB.
SLB1	4"- 3,000 PSI CONC. SLAB REINF'D W/ 6x6 # 10/10 WWM AND COMMERCIAL FIBERMESH MIX OVER 10 MIL. POLYETHYLENE VAPOR BARRIER OVER CLEAN 95% COMPACTED POISON TREATED EARTHEN FILL. PROVIDE NON SLIP BROOM FINISH IN DIRECTION OF WATERSHED/RUN-OFF AT ALL EXTERIOR SLABS.



KEY PLAN

SCALE: N.T.S.

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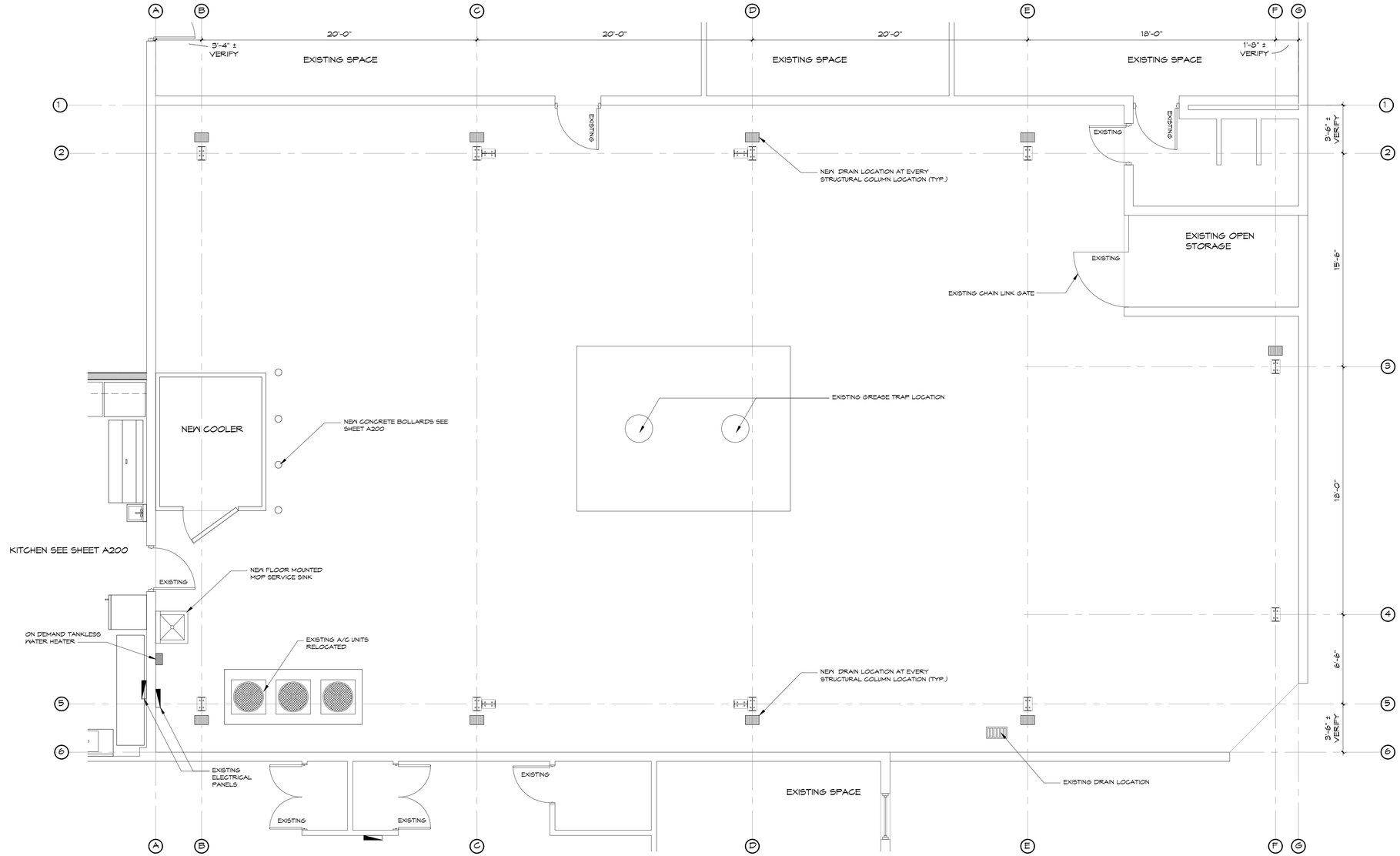
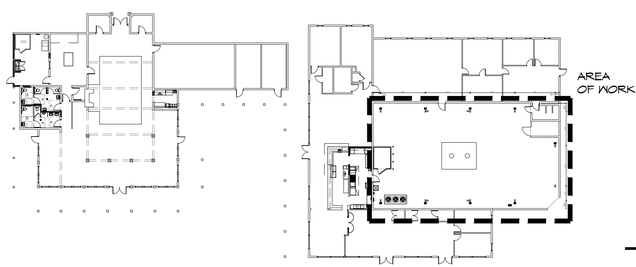


FLOOR PLAN
SCALE: 1/4" = 1'-0"



KEY PLAN
SCALE: N.T.S.

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A301

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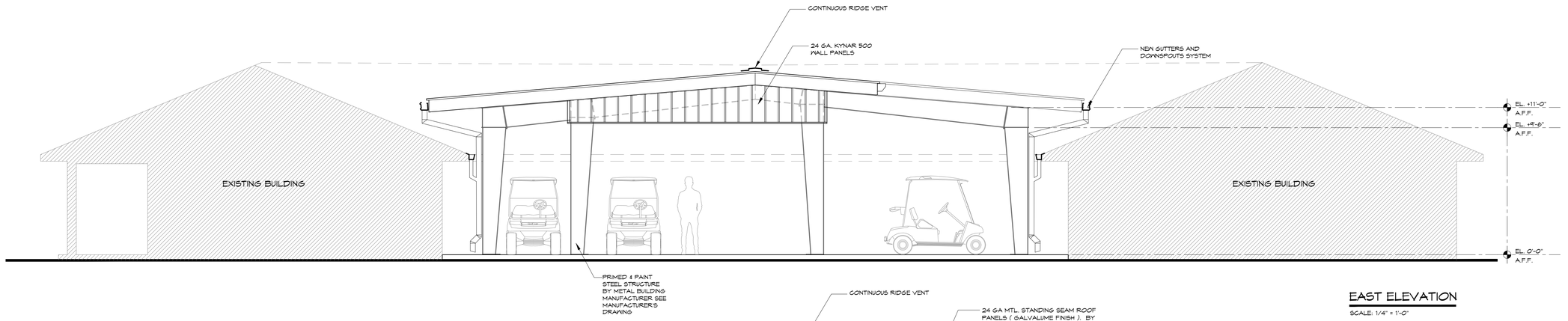
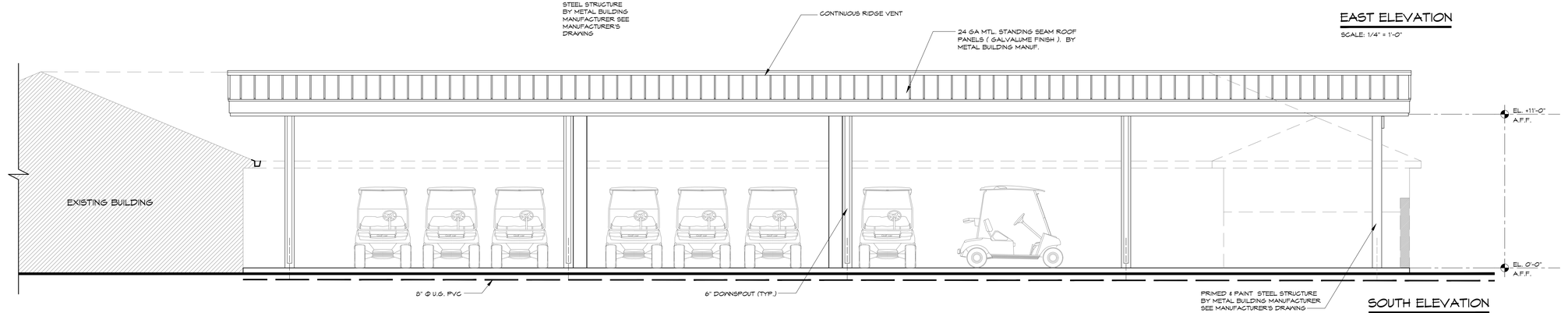


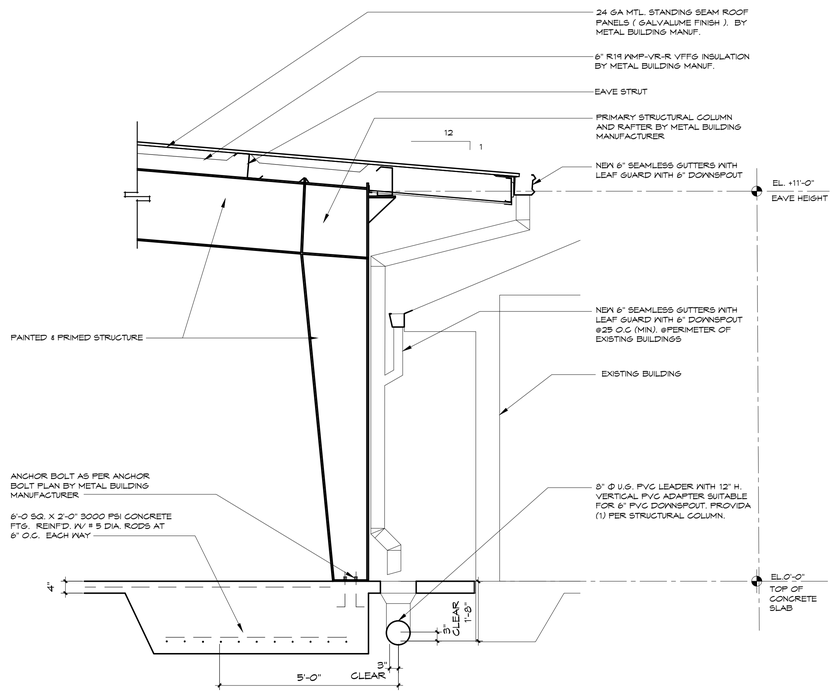
EAST ELEVATION

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



SOUTH ELEVATION

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



BLDG. SECTION - A

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

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A302

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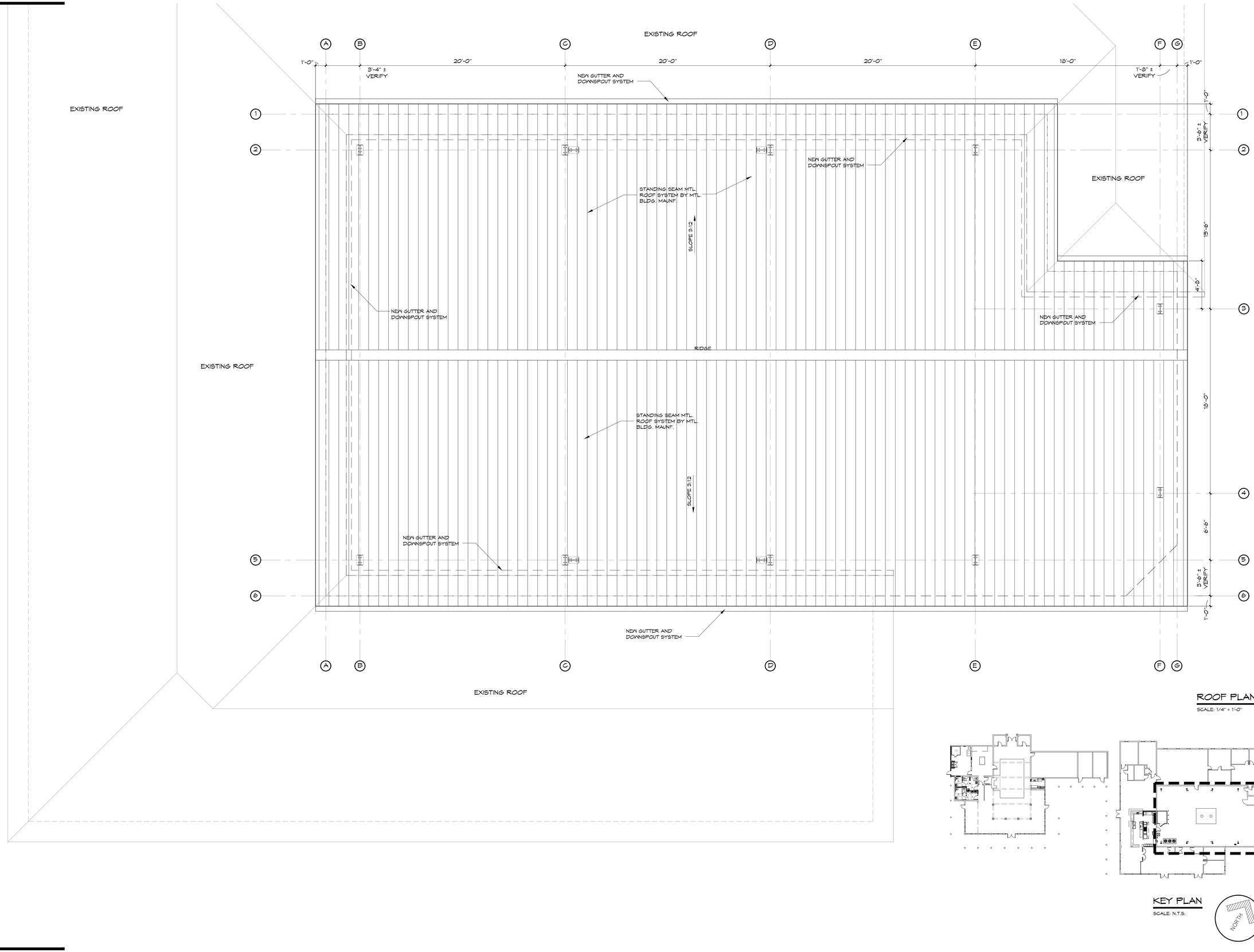

ROOF PLAN

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

KEY PLAN

SCALE: N.T.S.

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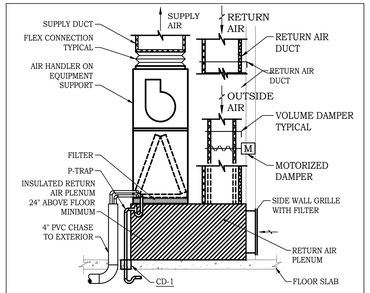
sheet no.

A303

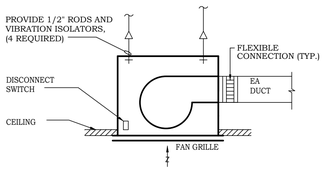
BID DOCUMENTS

David A. DaSilva
54739



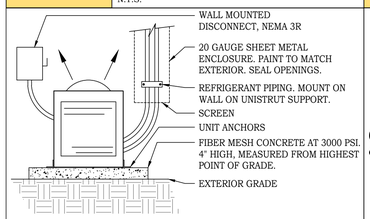
M# TYPICAL AC INSTALLATION WITH OUTSIDE AIR

N.T.S.



M3 EXHAUST FAN DETAIL (CEILING)

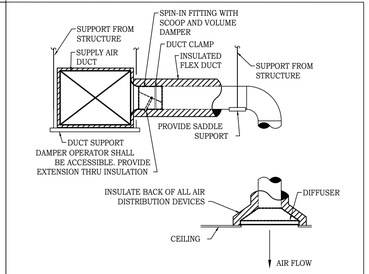
N.T.S.



NOTES:
1. CONDENSERS LOCATED NEAR COASTAL WATERS SHALL BE COATED WITH BRONZEGLOW OR HERESITE COIL COATING.
2. UNIT ANCHORS SHALL BE FLORIDA AND MIAMI/DADE PRODUCT APPROVED AS MANUFACTURED BY MIAMI TECH, INC. (FL# FL19731-R-3) OR EQUAL. INSTALL AS REQUIRED BY MANUFACTURER TO WITHSTAND WIND LOADS OF 175 MPH. USE CARE AND DO NOT PUNCTURE COMPONENTS.

M# CONDENSER UNIT DETAIL

N.T.S.

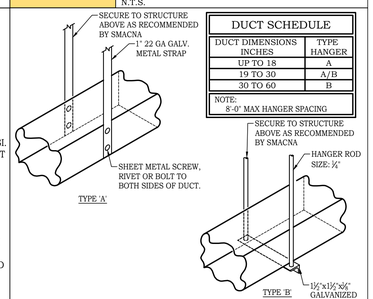


M2 TYPICAL DUCT / DIFFUSER DETAIL

N.T.S.

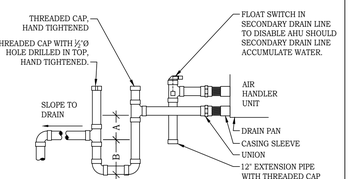
DUCT SCHEDULE	
DUCT DIMENSIONS INCHES	TYPE HANGER
UP TO 18	A
19 TO 30	A/B
30 TO 60	B

NOTE: 8'-0" MAX HANGER SPACING



M4 DUCT SUPPORT DETAIL

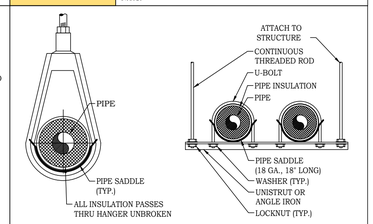
N.T.S.



NOTE:
1. FILL TRAP MANUALLY ON INITIAL START-UP.
2. PIPE SIZE SHALL NOT BE LESS THAN DRAIN PAN CONNECTION SIZE.
3. A = 1½ TIMES FAN SUCTION S.P.
   B = ½" PLUS FAN DISCHARGE S.P.
4. ALL CONDENSATE PIPING TO BE COPPER.
5. INSULATE ALL DRAIN LINES WITH ½" ARMAFLEX

M7 CONDENSATE DRAIN P-TRAP DETAIL

N.T.S.



M6 INSULATED PIPE HANGER DETAIL

N.T.S. M-D009

AC SPLIT SYSTEM SCHEDULE

MARK INDOOR/ OUTDOOR	NOMINAL CFM	O.A. CFM	ESP	COOLING CAPACITY AMB. TEMP	ENT DB	ENT WB	SENS MBH	TOT MBH	ELECTRICAL DATA (OUTDOOR UNIT) NO COMP	COMP RLA(EA)	NO FAN	FAN FLA(EA)	FAN HP	VOLT/ PHASE	MCA/ MOCP	ELECTRICAL DATA (INDOOR UNIT) FAN HP	KW HEAT	STAGE	VOLT/ PHASE	MCA/ MOCP	NOMINAL TONS	MANUFACTURER
AC-1W/CU-1W	1300	160	.5	95	80	67	26.1	35.6	1	16	1	0.9	1/8	208/1	20/35	1/2	9.0	1	208/1	54/60	2.5	TRANE/CARRIER/LENNOX

NOTES: 1. PROVIDE MOTORIZED OUTSIDE AIR INTAKE DAMPER FOR THE OA DUCT.
2. INSTALL AND ANCHOR CONDENSER UNIT TO STRUCTURE (SLAB).
3. MIN. SEER OF 16.0
4. COORDINATE INSTALLATION OF SMOKE DETECTORS WITH DIV. 16 (NOT REQ'D IF 2000 CFM OR LESS.
5. PROVIDE VIBRATION ISOLATIONS.
6. PROVIDE 410A REFRIGERANT.
7. PROVIDE SINGLE POINT ELECTRICAL CONNECTION WITH DISCONNECT.
8. PROVIDE 1" PLEATED FILTERS.
9. PROVIDE 5 YEAR WARRANTY.
10. PROVIDE CONDENSER COIL GUARDS.
11. PROVIDE PROGRAMMABLE THERMOSTAT.
12. BALANCE UNITS BASED ON AIRFLOW RATES SHOWN ON DRAWINGS.
13. PROVIDE VARIABLE SPEED AIRHANDLER WITH HUMIDISTAT CONTROL.
14. PROVIDE UNLOADING COMPRESSOR. (MIN. 2 STAGES)

DESIGN CRITERIA

DESIGN TEMPERATURES	
OUTDOOR AIR	
SUMMER	WINTER
95°F DB/80°F WB	30°F DB

NOTES

THE DESIGN CRITERIA ABOVE IS BASED ON ASHRAE STANDARD 62.1. ANY CHANGES TO THIS OCCUPANCY OR FLOOR PLAN WILL REQUIRE FURTHER REVIEW AND MODIFICATIONS TO THIS VENTILATION SYSTEM.

EXHAUST FAN SCHEDULE

MARK	TYPE	CFM	ESP	MOTOR WATTS	MOTOR RPM	MOTOR HP	DRIVE TYPE	FAN SERVICE	MAX SONES	VOLT / PHASE	CONTROL	MANUFACTURER / MODEL	NOTES
EX. EF-1	ROOF	150	0.25	20	-	-	DIRECT	RESTROOMS	5	115/1	SWITCH	EXISTING	SEE BELOW
EX. EF-2	ROOF	150	0.25	20	-	-	DIRECT	RESTROOMS	5	115/1	SWITCH	EXISTING	SEE BELOW
EF-3	ROOF	4000	0.25	-	-	1/2	DIRECT	CART STORAGE		115/1	SWITCH	GREENHECK/G SERIES	SEE BELOW
EF-4	ROOF	4000	0.25	-	-	1/2	DIRECT	CART STORAGE		115/1	SWITCH	GREENHECK/G SERIES	SEE BELOW

PROVIDE THE FOLLOWING: DISCONNECT SWITCH, VIBRATION ISOLATORS, BACKDRAFT DAMPER, SPEED CONTROL

MINI SPLIT UNIT SCHEDULE (DX SPLIT)

MARK	NOMINAL CFM	COOLING CAPACITY MBH	COOLING CAPACITY SEER	HEATING CAPACITY MBH	HEATING CAPACITY HSPF	VOLT/PHASE	INDOOR UNIT MCA	OUTDOOR UNIT MCA	MOCP (AMPS)	MANUFACTURER	SERVES	NOTES
AC-E1A/CU-E1	887	30.7	14.5	32.6	10	208-240/1	1	21	25	CARRIER/MITSUBISHI DAIKIN OR APPROVED EQUAL	--	SEE BELOW
AC-E1B/CU-E1	887	30.7	14.5	32.6	10	208-240/1	1	21	25	CARRIER/MITSUBISHI DAIKIN OR APPROVED EQUAL	--	SEE BELOW

NOTES:
1. INSTALL AND ANCHOR CONDENSER UNIT TO STRUCTURE.
2. MIN. SEER OF 14.0
3. PROVIDE 410A REFRIGERANT.
4. PROVIDE 5 YEAR WARRANTY.
5. PROVIDE SINGLE POINT ELECTRICAL CONNECTION WITH DISCONNECT (INDOOR UNIT FED FROM OUTDOOR UNIT).
6. PROVIDE PROGRAMMABLE THERMOSTAT.
7. PROVIDE CONDENSATE PUMP.
8. PROVIDE LOW AMBIENT CONTROL.

FLEX DUCT SCHEDULE

CFM	DUCT SIZE	TRANSFER DUCT SIZE
0-100	6"Ø	9"Ø
101-200	8"Ø	12"Ø
201-300	10"Ø	16"Ø
301-400	12"Ø	18"Ø
401-600	14"Ø	22"Ø
601-1000	16"Ø	24"Ø
1001-1500	18"Ø	28"Ø
1501-2000	20"Ø	30"Ø

SIZE BOTH SUPPLY AND RETURN BASED UPON AIRFLOWS ABOVE.

AIR DISTRIBUTION DEVICE SCHEDULE

MARK	TYPE	CFM RANGE	MAX NC	NECK SIZE (IN.)	FLEX DIAM. (IN.)	MANUFACTURE / MODEL	REMARKS
12x12 / 24x24	SUPPLY DIFFUSERS	0-100	25	6Ø	6	METAL*AIRE 5500-APD	1,2,3
		101-200	25	8Ø	8		
		201-300	25	10Ø	10		
		301-400	25	12Ø	12		
		401-600	25	14Ø	14		
	RETURN GRILLE	0-800	25	20x20	-	METAL*AIRE RH	1,2,3
		801-3000	25	48x24	-		
SWR	SIDEWALL RETURN	-	25	SEE DWGS	-	METAL*AIRE RH	1,2,3

REMARKS: 1. PROVIDE OPPOSED BLADE VOLUME DAMPERS.
2. CONTRACTOR SHALL COORDINATE GRILLES, DIFFUSERS AND REGISTER'S BORDER TYPES WITH CEILING, WALLS, EQUIPMENT ETC.
3. PROVIDE ALL ALUMINUM CONSTRUCTION.

NOTES: 1. ALL GRILLES SHALL BE FULL FACE OF MODULE. ALL LAY-IN CEILING RETURN MODULES SHALL BE 24"x24" WITH 20"x20"x1" FILTER
2. INSULATE THE BACK OF ALL SUPPLY AND RETURN AIR DEVICES.
3. PROVIDE BORDER TYPE 1 FOR LAY-IN CEILINGS, AND BORDER TYPE 3 FOR GYPSUM BOARD CEILINGS.
4. PROVIDE 1" PLEATED FILTER.
5. THE NUMBER ADJACENT TO THE FIXTURE INDICATES AIR FLOW (CFM).

SEQUENCE OF OPERATION

PROVIDE INDIVIDUAL ROOM LED PROGRAMMABLE THERMOSTATS THAT SHALL MAINTAIN ROOM SET POINTS.

1. AIR HANDLER FAN SHALL START AND STOP ON COMMAND FROM THERMOSTAT BASED ON TIME OF DAY SCHEDULE.
2. LOCAL OVERRIDE CONTROL WILL START FAN AND PERMIT IT TO RUN FOR A PREDETERMINED INTERVAL.
3. OUTSIDE AIR DAMPER SHALL OPEN AND SHALL BE CONTROLLED BY A MOTORIZED DAMPER INTERLOCKED WITH THE COMPRESSOR.
4. ON A RISE OF RETURN OR SPACE AIR TEMPERATURE FROM 75°F SETPOINT (ADJUSTABLE), THE CONTROLLER SHALL ENERGIZE THE UNIT'S COMPRESSOR TO MAINTAIN 57°F SUPPLY LEAVING AIR TEMPERATURE SETPOINTS.
5. SPACE AIR TEMPERATURE SETPOINT SHALL BE SET BY THE OWNER AND SHALL BE ADJUSTABLE.
6. THE CONTROLLER SHALL STAGE ONE COMPRESSOR AT A TIME. IF TEMPERATURE INCREASES, THE SECOND COMPRESSOR WILL BE STAGED ON (IF DUAL COMPRESSOR IS FURNISHED)
7. IN THE WINTER MONTHS, THE UNIT'S HEATERS SHALL BE STAGED ON TO MAINTAIN 68°F.
8. IF HUMIDITY INCREASES ABOVE 60%. THE UNITS SHALL ENERGIZE THE COMPRESSOR TO MAINTAIN A COLD COIL.

AIR BALANCE

OUTSIDE AIR	= 460 CFM
EXHAUST AIR	= 210 CFM
BUILDING IS POSITIVE	= 250 CFM

OUTDOOR AIR SCHEDULE

ZONE USE	AREA (SQ. FT)	FBC-MECHANICAL TABLE 403.3.1.1 OCCUPANCY DENSITY (PEOPLE/1000 SQ.FT.)	ZONE MAX OCCUPANCY (# OF PEOPLE)	CFM/ PERSON	CFM/ AREA	TOTAL REQUIRED O.A. CFM	OA CFM PER SEC. 403.2 *	OA CFM PROVIDED
OFFICE	1914	5	10	5	0.06	456		460
CONFERENCE	934	50	47	5	0.06			

LEGEND

SYMBOL	DESCRIPTION
T	THERMOSTAT CONTROL
H	HUMIDISTAT
S	TEMPERATURE SENSOR
	ROUND INSULATED FLEXIBLE DUCT
	FIRE DAMPER
CD	CONDENSATE
UC	UNDERCUT DOOR
	SUPPLY DIFFUSER
	RETURN AIR GRILLE
	OA SOFFIT LOUVER
TG	TRANSFER GRILLE (ABOVE DOOR)
	INLINE FAN
EF-	EXHAUST FAN WITH DESIGNATION
	EA SOFFIT LOUVER
	DUCT TRANSITION
OR	RECTANGULAR OR ROUND SUPPLY OR RETURN DUCT (AS NOTED)
OR	MANUAL VOLUME DAMPER
	ELBOW WITH TURNING VANES
DIFFUSER TYPE 430 CFM	DIFFUSER OR GRILLE DESIGNATION
	DUCTSOX
R S	PHOTOELECTRIC DUCT SMOKE DETECTOR R=RETURN S=SUPPLY
M	MOTORIZED DAMPER
AC	AIR CONDITIONER
AHU	AIR HANDLER
CD	CONDENSATE DRAIN
CFM	CUBIC FEET PER MINUTE
CU	CONDENSER
DB/WB	DRY BULB/WET BULB
EA	EXHAUST AIR
EF	EXHAUST FAN
KW	KILOWATT
MBH	THOUSAND BTU PER HOUR
MCA	MINIMUM CIRCUIT AMPS
OA	OUTSIDE AIR
PTAC	PACKAGE TERMINAL AIR CONDITIONER
RA	RETURN AIR
SA	SUPPLY AIR
SENS	SENSIBLE
SD	SMOKE DETECTOR
RTU	ROOF TOP UNIT
	LIGHT DASHED INDICATES EXISTING EQUIPMENT
	DARK DASHED INDICATES EXISTING EQUIPMENT RELOCATED
	DARK SOLID INDICATES NEW EQUIPMENT
	HATCHED ITEMS INDICATES EQUIPMENT TO BE REMOVED AND RELOCATED
	DEMO
	NOT IN CONTRACT (N.I.C.)

CODE COMPLIANCE REQUIREMENTS

ALL WORK SHALL BE IN COMPLIANCE WITH THE FOLLOWING CODES, BUT NOT LIMITED TO:
7TH EDITION OF THE 2020 FLORIDA BUILDING CODE - BUILDING (FBCB)
7TH EDITION OF THE 2020 FLORIDA BUILDING CODE - EXISTING BUILDING (FBCEB)
7TH EDITION OF THE 2020 FLORIDA BUILDING CODE - ACCESSIBILITY (FBCA)
7TH EDITION OF THE 2020 FLORIDA BUILDING CODE - ENERGY CONSERVATION (FBCEC)
7TH EDITION OF THE 2020 FLORIDA BUILDING CODE - MECHANICAL (FBCM)
7TH EDITION OF THE 2020 FLORIDA BUILDING CODE - PLUMBING (FBCP)
7TH EDITION OF THE 2020 FLORIDA BUILDING CODE - FUEL GAS (FBCFG)
7TH EDITION OF THE 2020 FLORIDA FIRE PREVENTION CODE (FFPC)
NFPA 70 - 2017 NATIONAL ELECTRICAL CODE (NEC)

COOLING/HEATING LOAD SUMMARY

ZONE UNIT #	AREA SQUARE FEET	OUTDOOR DRY BULB (DB)	OUTDOOR WET BULB (WB)	INDOOR DRY BULB (DB)	INDOOR RELATIVE HUMIDITY (%RH)	COOLING (MBH) TOTAL SENSIBLE	TOTAL LATENT	TOTAL WITH OUTSIDE AIR	TOTAL HEATING WITH OUTSIDE AIR (MBH)	GRAINS WATER (DIFFERENCE)
AC-108A	843	95	80	75	60	26.1	9.5	35.6	30	12.2
AC-108B	1940	95	80	75	60	41.9	16.1	58	30	16.2

NOTES:
- THIS SUMMARY IS BEING SUBMITTED IN ACCORDANCE WITH 2020 FLORIDA BUILDING CODE (7TH EDITION), 2020 ENERGY CONSERVATION CODE (7TH EDITION), SECTION C403.2.1.
- SIZING METHOD USED: ASHRAE TRANSFER FUNCTION METHOD.

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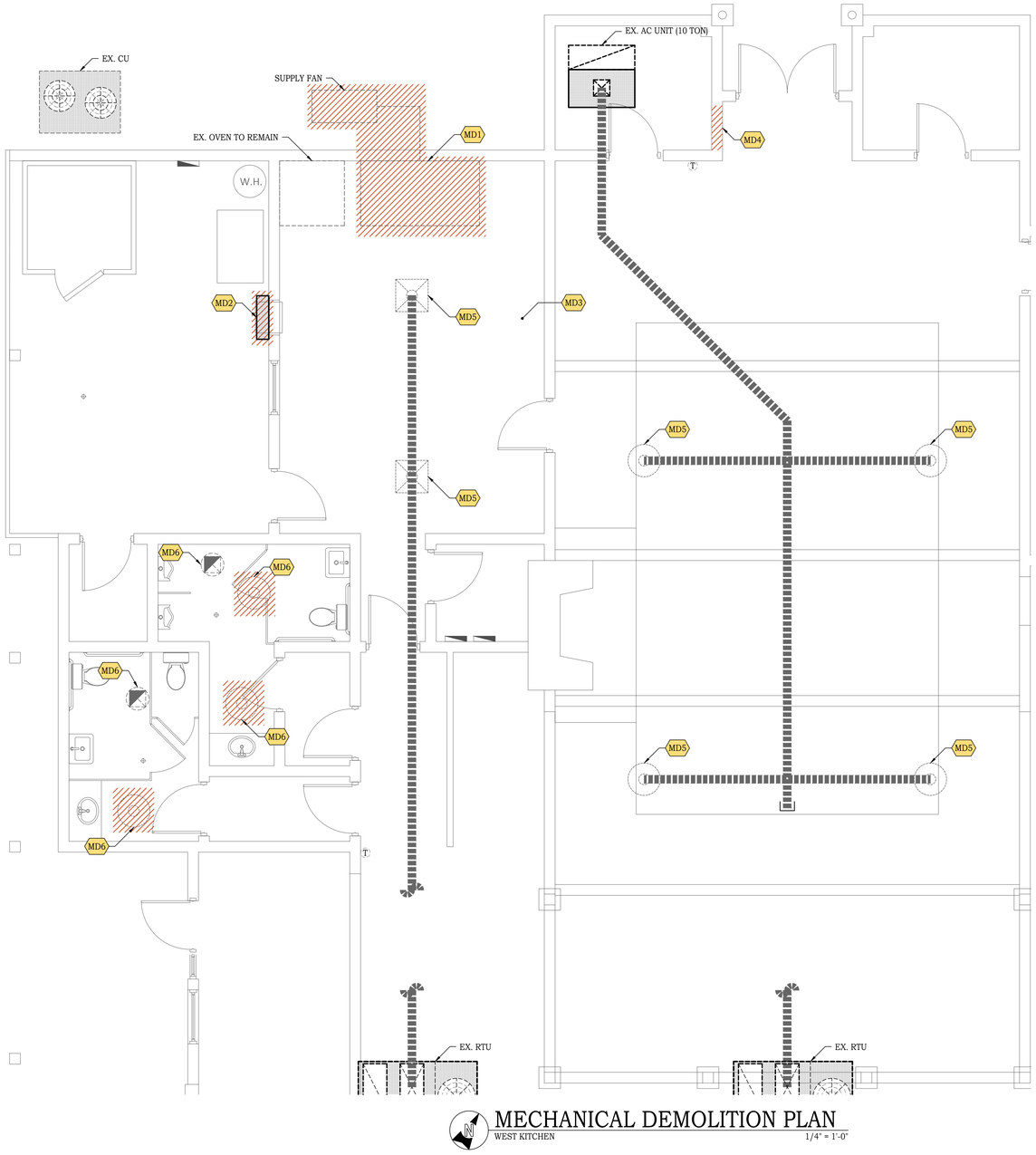
A NEW RENOVATION FOR:
CO OCALA MUNICIPAL GOLF CLUB
OCALA, FLORIDA

project no. 2136

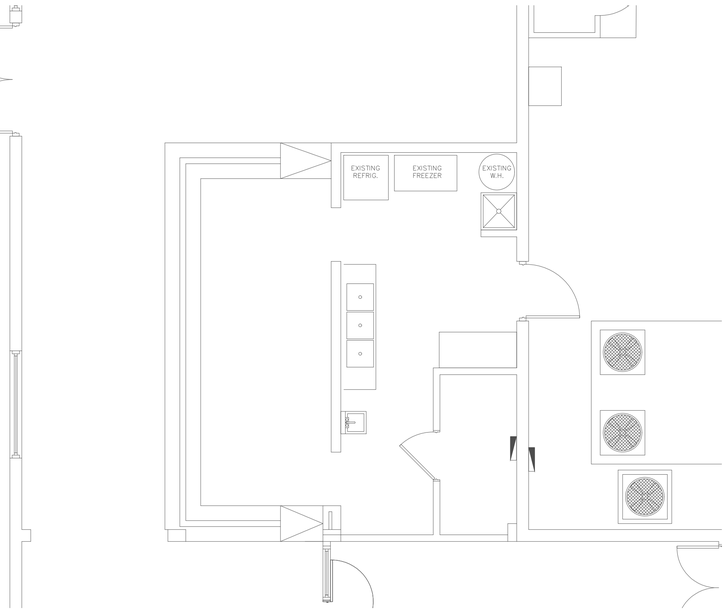
by	date
AJB	11.30.21

sheet no.
M-1

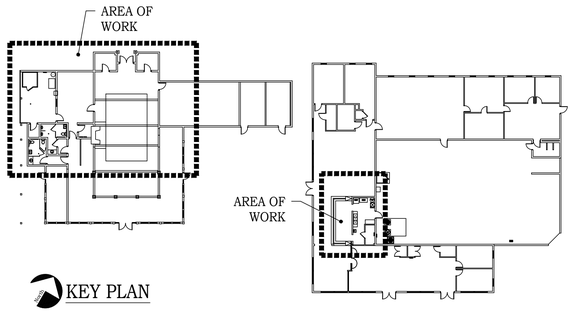
BID DOCUMENTS



MECHANICAL DEMOLITION PLAN
WEST KITCHEN 1/4" = 1'-0"



MECHANICAL DEMOLITION PLAN
EAST KITCHEN 1/4" = 1'-0"



KEY PLAN

DEMOLITION PLAN NOTES

MD1. REMOVE EXISTING KITCHEN HOOD AND ASSOCIATED DUCTWORK FANS AND ELECTRICAL SERVICE.

MD2. REMOVE EXISTING AC UNIT.

MD3. EXISTING AC SERVICE THE KITCHEN TO REMAIN.

MD4. REMOVE EXISTING WALL TO INSTALL NEW LOUVER.

MD5. EXISTING AIR DEVICES TO REMAIN.

MD6. REMOVE EXISTING ROOF EXHAUST SYSTEMS. REMOVE OLD DUCTWORK AND GRILLES.

MD7. REMOVE EXISTING AIR DEVICES.

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by AJB/JJD
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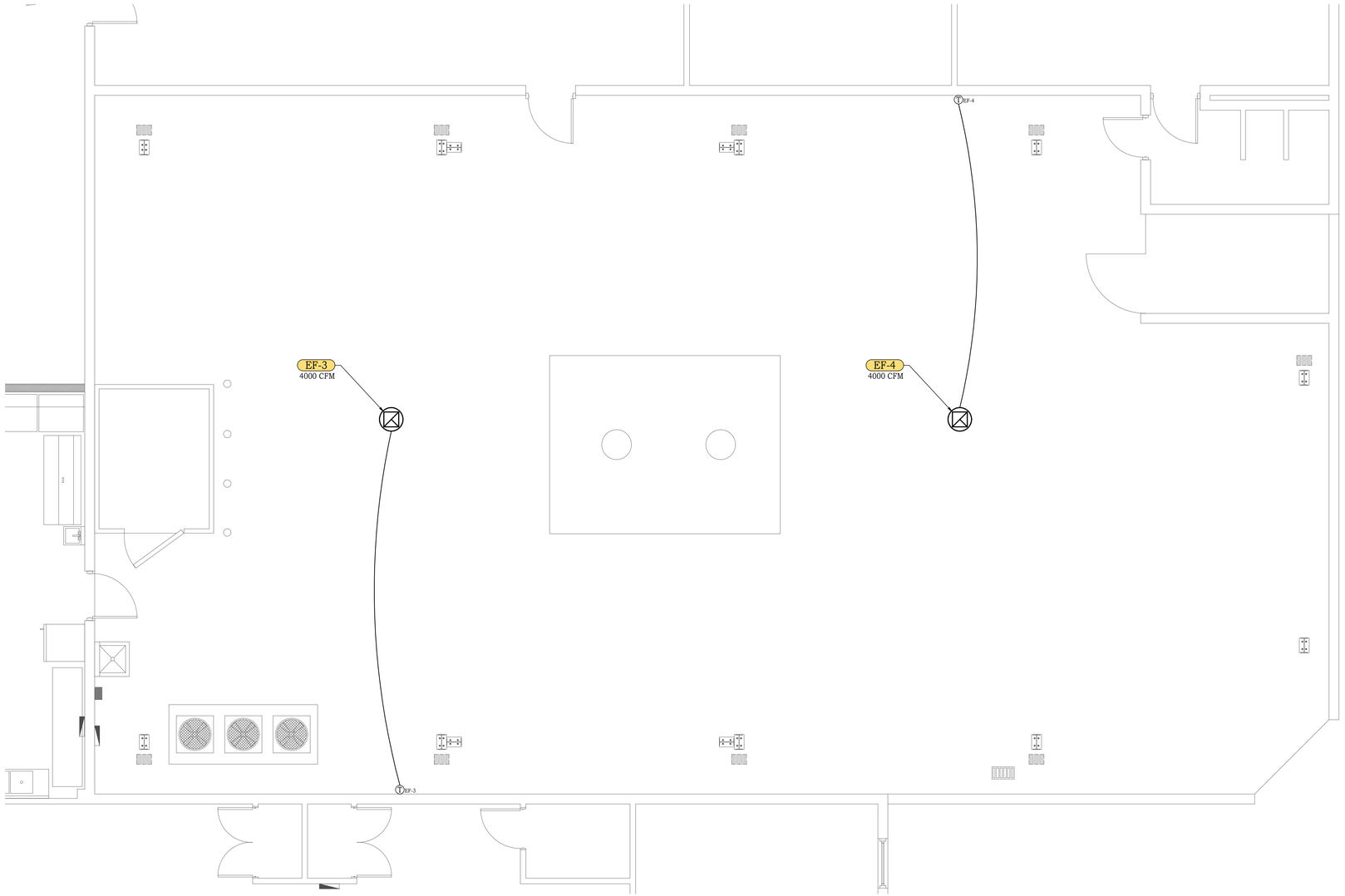
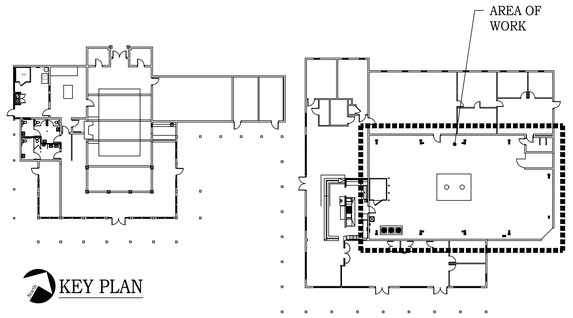


MECHANICAL PLAN
CART STORAGE 1/4" = 1'-0"



KEY PLAN

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M – 3

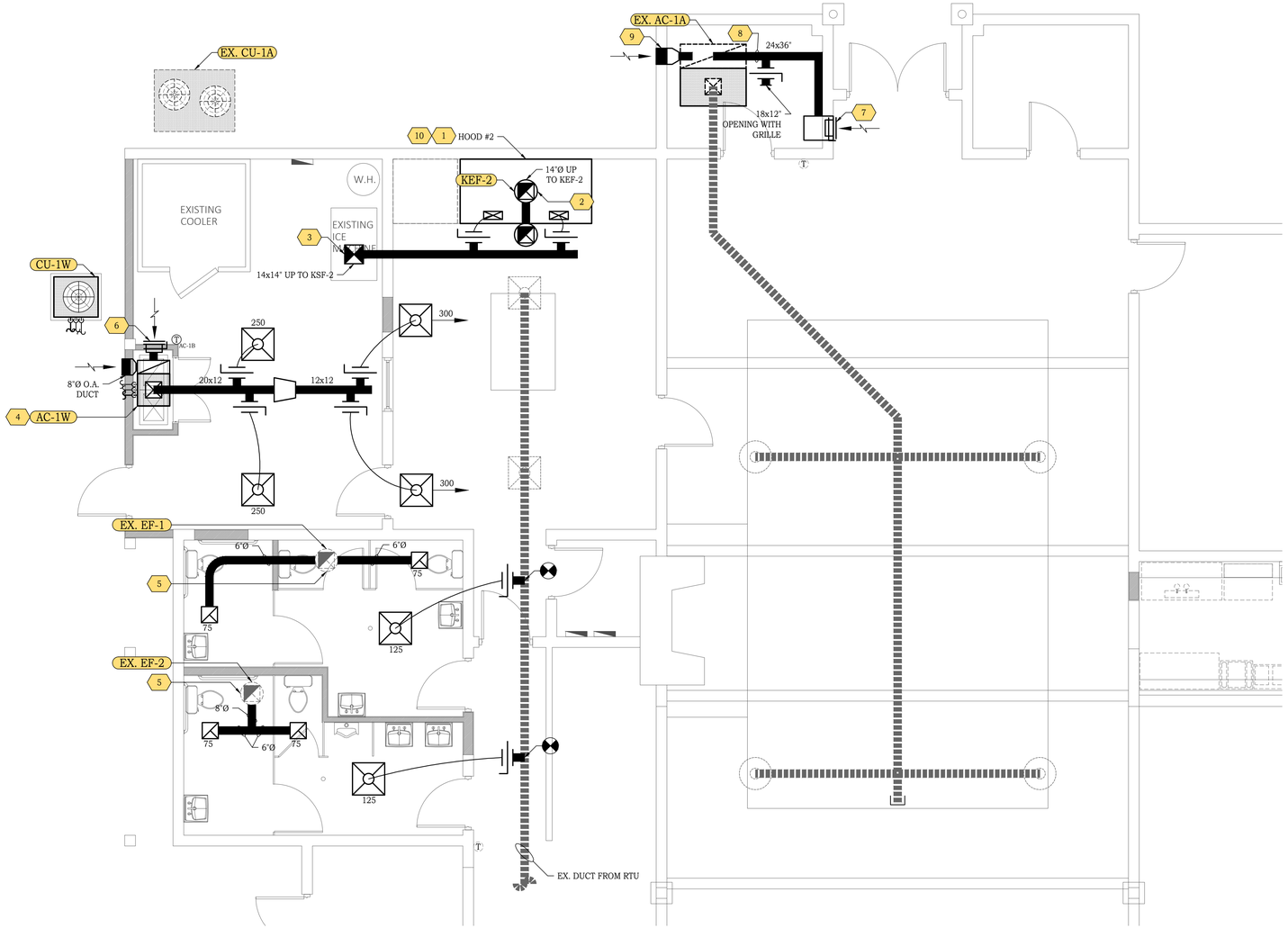
BID DOCUMENTS

NOTE

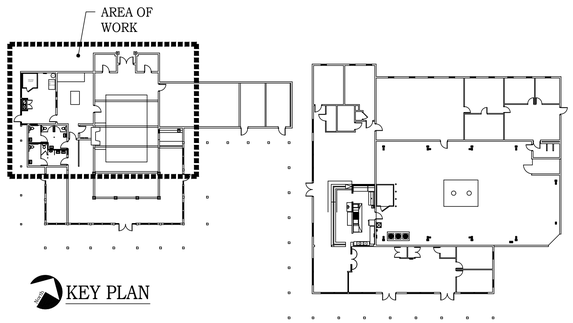
CONTRACTOR TO REMOVE, REPAIR AND PAINT ALL SURFACES (WALLS, CEILINGS, FLOORS ETC) TO INSTALL NEW HVAC SYSTEMS.

PLAN NOTES

1. INSTALL NEW HOOD #2
2. INSTALL NEW KITCHEN EXHAUST FAN AND DUCTWORK FOR HOOD
3. INSTALL NEW SUPPLY FAN AND DUCTWORK FOR HOOD
4. INSTALL NEW AC UNIT AND DUCTWORK AS SHOWN FOR KITCHEN ADDITIONS.
5. CONNECT NEW EXHAUST GRILLES AND DUCTWORK TO EXISTING EXHAUST FANS.
6. PROVIDE NEW 30x30" RA GRILLE W/ FILTER.
7. PROVIDE NEW 36x24" RA GRILLES (TWO TOTAL) TOP AND BOTTOM. PROVIDE 18" PLENUM DUCT AT BACK OF GRILLES.
8. ROUTE NEW RA DUCT FOR RA PLENUM TO EX AC UNIT.
9. CONNECT NEW OA DUCT TO EXISTING INTAKE AND CONNECT TO RETURN SIDE OF UNIT.
10. REMOVE EXISTING CEILING TO INSTALL NEW HOOD AND DUCTWORK



MECHANICAL PLAN
WEST KITCHEN 1/4" = 1'-0"



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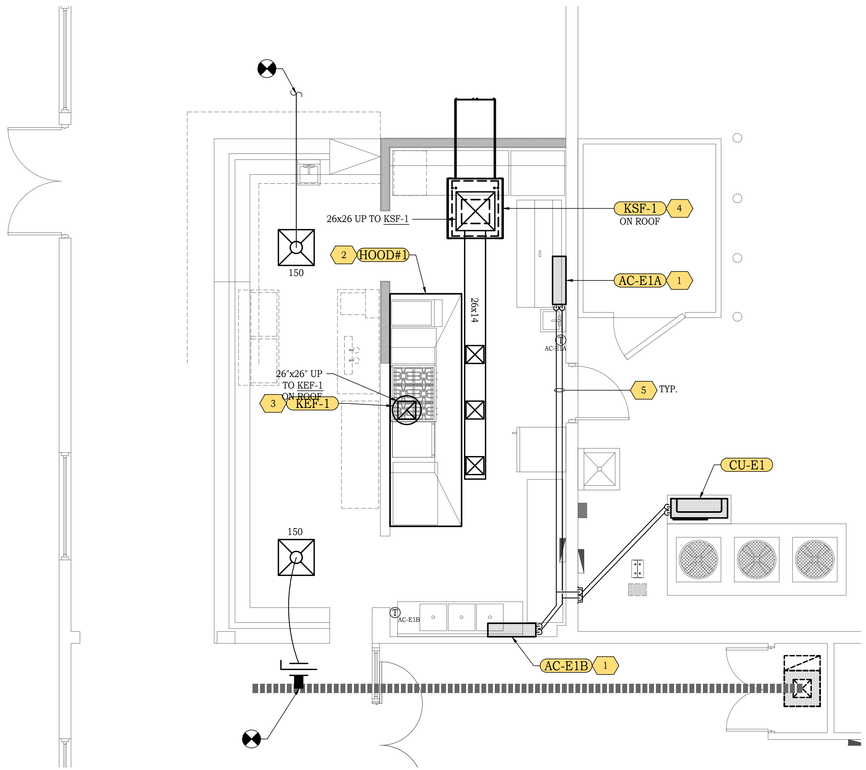
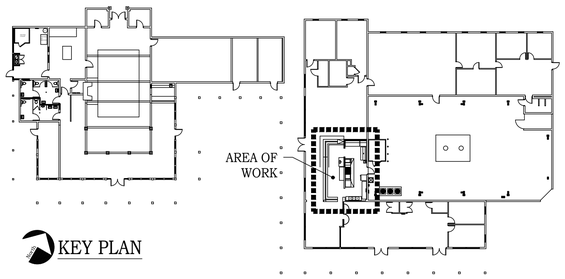
BID DOCUMENTS

PLAN NOTES

#	
1.	INSTALL NEW MINI SPLIT ON WALL AND CONNECT TO COMMON CONDENSER.
2.	INSTALL NEW HOOD #1. COMPLETE W/ ANSUL SYSTEM DUCTWORK AND FANS.
3.	INSTALL NEW EXHAUST FAN AND DUCTWORK ON ROOF. SEE DETAIL.
4.	INSTALL NEW KITCHEN SUPPLY FAN SEE DETAIL.
5.	ROUTE REFRIGERANT PIPING OVERHEAD TO EXTERIOR CONDENSER.



MECHANICAL PLAN
EAST KITCHEN 1/4" = 1'-0"



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BID DOCUMENTS

HOOD #1

EXHAUST FAN INFORMATION – JOB#5180183

FAN UNIT NO	TAG	QTY	FAN UNIT MODEL #	MANUFACTURER	CFM	ESP	RPM	MOTOR ENCL	HP	BHP	PHASE	VOLT	FLA	DISCHARGE VELOCITY	WEIGHT (LBS)	SONES
1	KEF-1	1	DU180HFA	CAPTIVEAIRE	2600	1.200	1154	TEFC,PREMIUM	1.500	1.0950	3	208	6.5	600 FPM	189	14.3

MUA FAN INFORMATION – JOB#5180183

FAN UNIT NO	TAG	QTY	FAN UNIT MODEL #	BLOWER	HOUSING	MIN CFM	DESIGN CFM	ESP	RPM	MOTOR ENCL	HP	BHP	PHASE	VOLT	FLA	MCA	MOCP	WEIGHT (LBS)	SONES
2	KSF-1	1	EA-A2-20D	20MF-2-MOD	A2	1500	2300	0.500	915	ODP,PREMIUM	1.000	0.4170	3	208	3.8	4.8A	15A	394	8.4

FAN OPTIONS

FAN UNIT NO	TAG	QTY	DESCRIPTION
1		1	GREASE BOX.
		1	FAN BASE CERAMIC SEAL - SHIP LOOSE - FOR GREASE DUCTS.
		1	MIAMI DADE CERTIFICATION - NOA-1 ALUMINUM UPBLAST.
		1	HINGE KIT - SHIPS LOOSE FOR CURB SUPPLIED BY OTHERS.
		1	2 YEAR PARTS WARRANTY.
2		1	MIAMI DADE CERTIFICATION - NOA-2 SUPPLY.
		1	2 YEAR PARTS WARRANTY.

CURB ASSEMBLIES

NO	ON FAN	WEIGHT	ITEM	SIZE
1	# 1	30 LBS	CURB	26.500"W X 26.500"L X 26.000"H 3.000:12.000 PITCH ALONG LENGTH, RIGHT VENTED.
2	# 2	42 LBS	CURB	31.000"W X 37.000"L X 20.000"H 3.000:12.000 PITCH ALONG WIDTH, RIGHT INSULATED.

HOOD INFORMATION – JOB#5180183

HOOD NO	TAG	MODEL	MANUFACTURER	LENGTH	MAX COOKING TEMP	TYPE	APPLIANCE DUTY	DESIGN CFM/FT	TOTAL EXH CFM	EXHAUST PLENUM RISER(S) WIDTH	LENG	HEIGHT	DIA	CFM	VEL	SP	TOTAL SUPPLY CFM	HOOD CONSTRUCTION	HOOD CONFIG END TO END	ROW
1		5424 EX-2-PSP-F	ECON-AIR	13' 0"	600 DEG	I	HEAVY	200	2600			4"	16"	2600	1862	-0.908"	2100	430 SS WHERE EXPOSED	ALONE	ALONE

HOOD INFORMATION

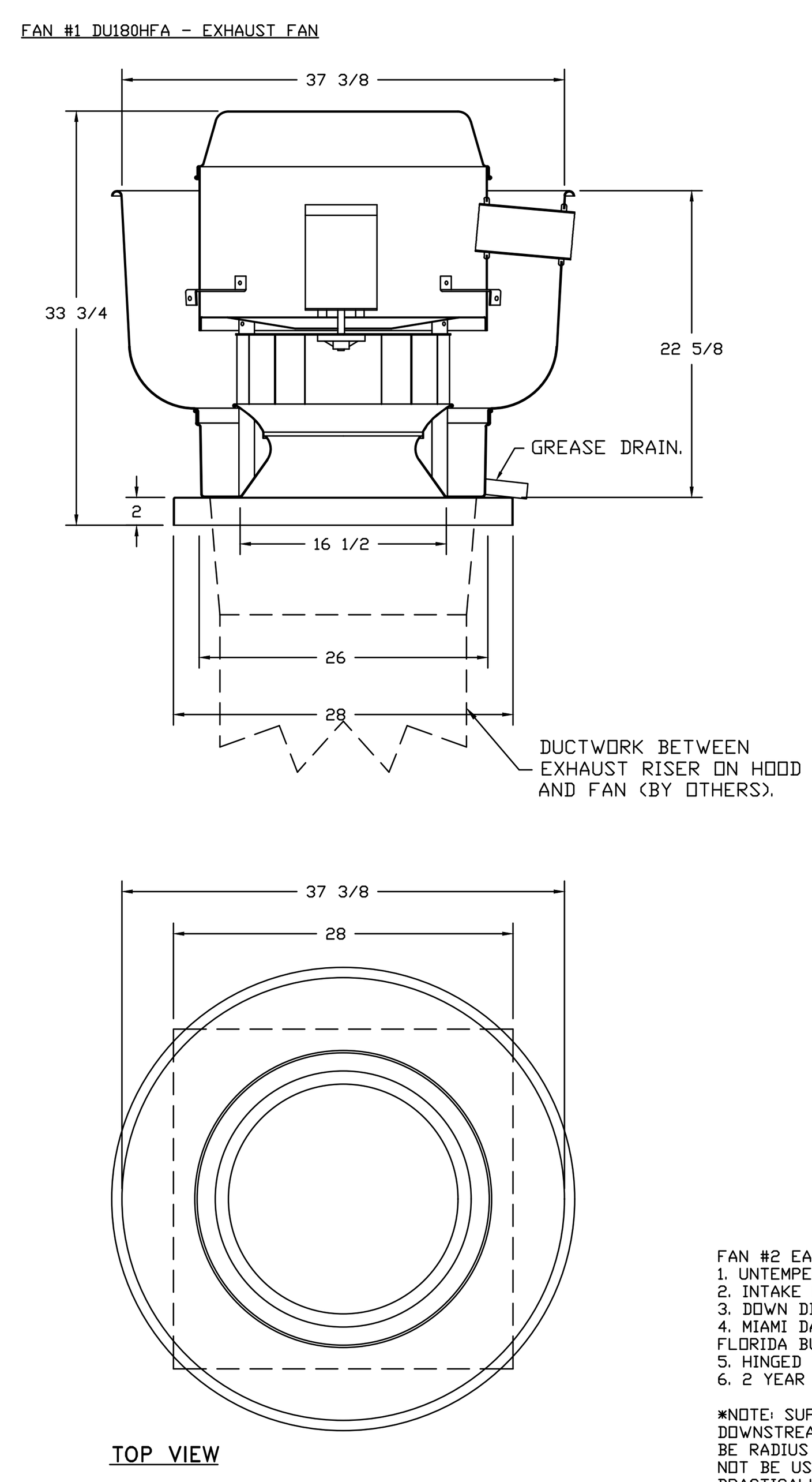
HOOD NO	TAG	FILTER(S) TYPE	QTY	HEIGHT	LENGTH	EFFICIENCY @ 7 MICRONS	LIGHT(S) QTY	TYPE	WIRE GUARD	UTILITY CABINET(S) LOCATION	SIZE	FIRE SYSTEM TYPE	FIRE SYSTEM SIZE	ELECTRICAL MODEL #	SWITCHES QUANTITY	FIRE SYSTEM PIPING	HOOD HANGING WEIGHT
1		CAPTRATE SOLO FILTER	9	20"	16"	85% SEE FILTER SPEC	6	L55 SERIES E26	NO	LEFT	12"x54"x24"	TANK FS	4.0/4.0	DCV-1111	1 LIGHT 1 FAN	YES	1171 LBS

HOOD OPTIONS

HOOD NO	TAG	OPTION
1		FIELD WRAPPER 18.00" HIGH FRONT, LEFT, RIGHT.
		INSULATION FOR BACK OF HOOD.
		RIGHT WIDE VERTICAL END PANEL 42" TOP WIDTH, 36" BOTTOM WIDTH, 80" HIGH INSULATED 430 SS.
		LEFT WIDE VERTICAL END PANEL 42" TOP WIDTH, 36" BOTTOM WIDTH, 80" HIGH INSULATED 430 SS.

PERFORATED SUPPLY PLENUM(S)

HOOD NO	TAG	POS	LENGTH	WIDTH	HEIGHT	TYPE	RISER(S) WIDTH	LENG	DIA	CFM	SP
1		Front	168"	14"	6"	MUA	10"	28"		700	0.191"
						MUA	10"	28"		700	0.191"
						MUA	10"	28"		700	0.191"



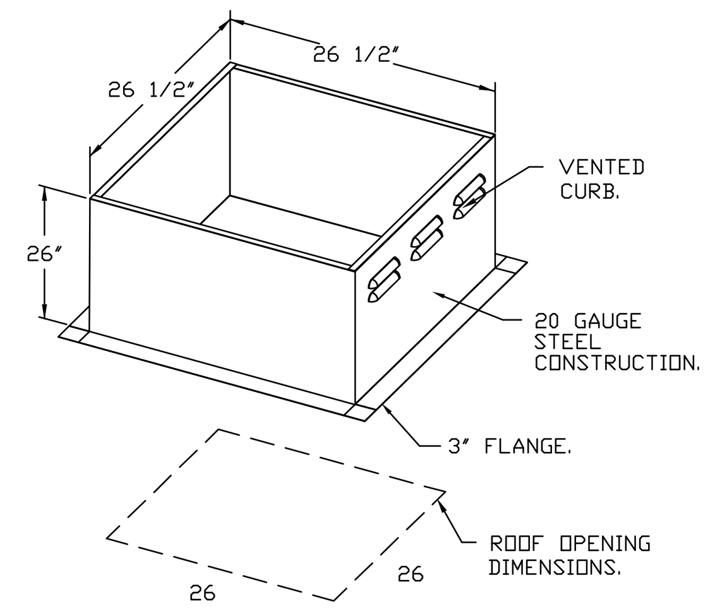
FEATURES:

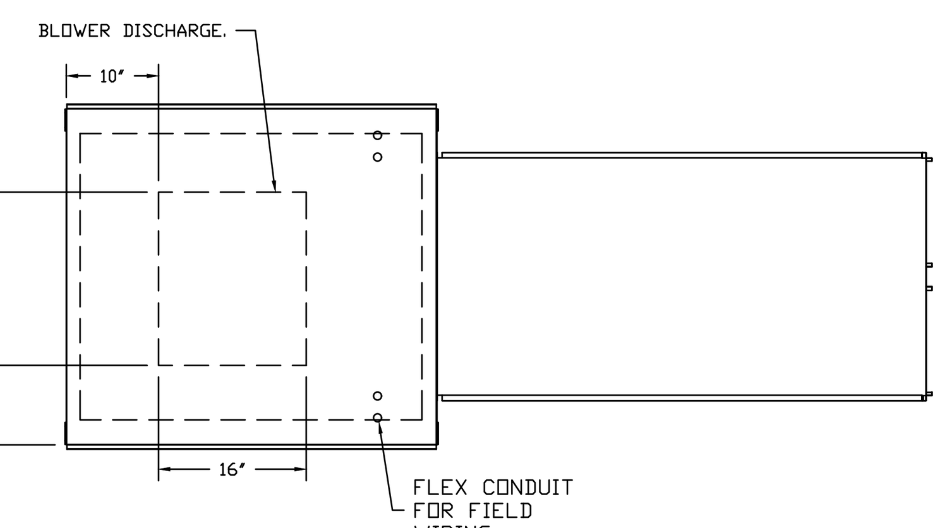
- DIRECT DRIVE CONSTRUCTION (NO BELTS/PULLEYS).
- ROOF MOUNTED FANS.
- RESTAURANT MODEL.
- UL705 AND UL762 AND ULC-S645
- VARIABLE SPEED CONTROL.
- INTERNAL WIRING.
- THERMAL OVERLOAD PROTECTION (SINGLE PHASE).
- HIGH HEAT OPERATION 300°F (149°C).
- GREASE CLASSIFICATION TESTING.
- NEMA 3R SAFETY DISCONNECT SWITCH.

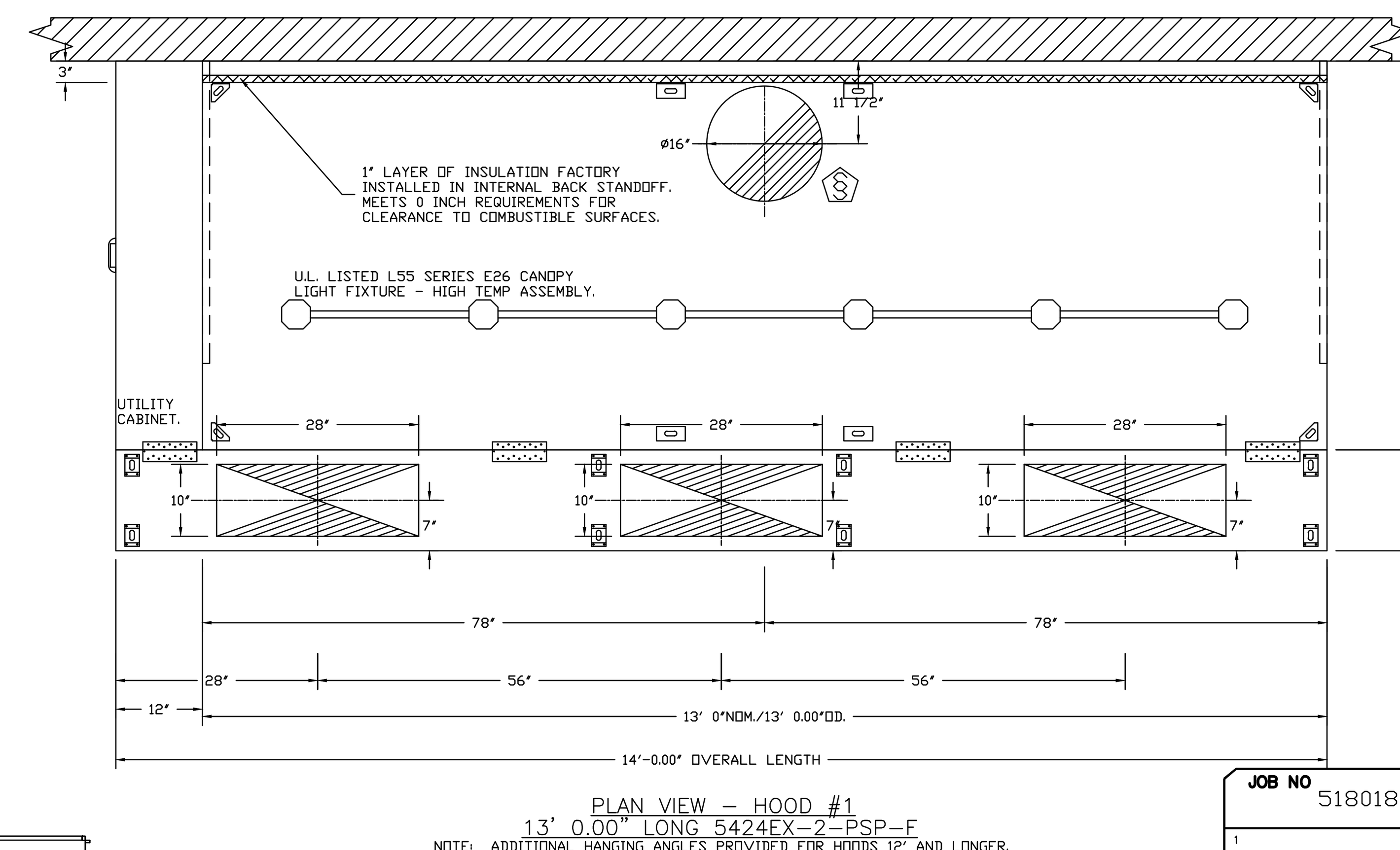
NORMAL TEMPERATURE TEST
EXHAUST FAN MUST OPERATE CONTINUOUSLY WHILE EXHAUSTING AIR AT 300°F (149°C) UNTIL ALL FAN PARTS HAVE REACHED THERMAL EQUILIBRIUM, AND WITHOUT ANY DETERIORATING EFFECTS TO THE FAN WHICH WOULD CAUSE UNSAFE OPERATION.

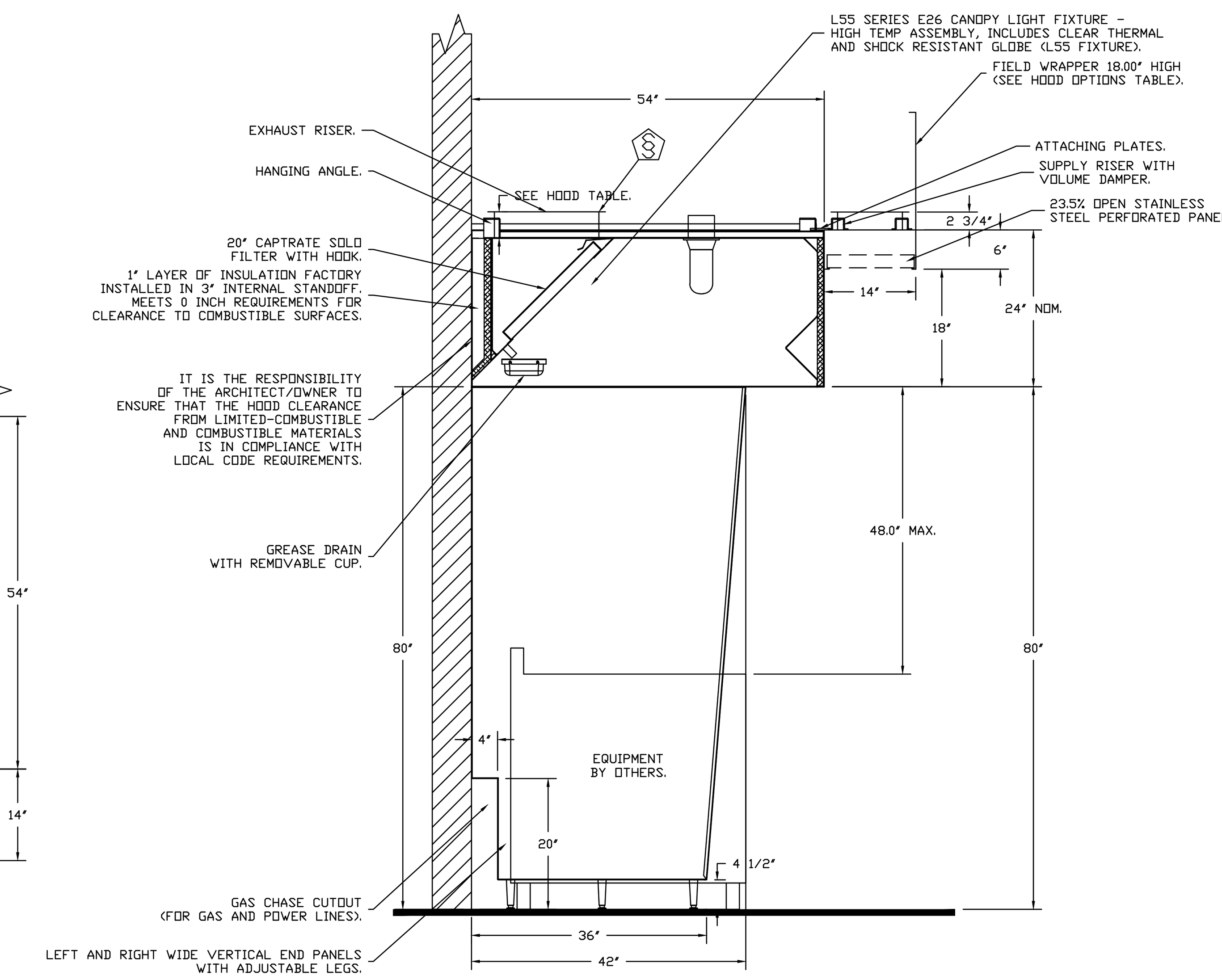
ABNORMAL FLARE-UP TEST
EXHAUST FAN MUST OPERATE CONTINUOUSLY WHILE EXHAUSTING BURNING GREASE VAPORS AT 600°F (316°C) FOR A PERIOD OF 15 MINUTES WITHOUT THE FAN BECOMING DAMAGED TO ANY EXTENT THAT COULD CAUSE AN UNSAFE CONDITION.

OPTIONS
GREASE BOX.
FAN BASE CERAMIC SEAL - SHIP LOOSE - FOR GREASE DUCTS.
MIAMI DADE CERTIFICATION - NOA-1 ALUMINUM UPBLAST.
HINGE KIT - SHIPS LOOSE FOR CURB SUPPLIED BY OTHERS.
2 YEAR PARTS WARRANTY.





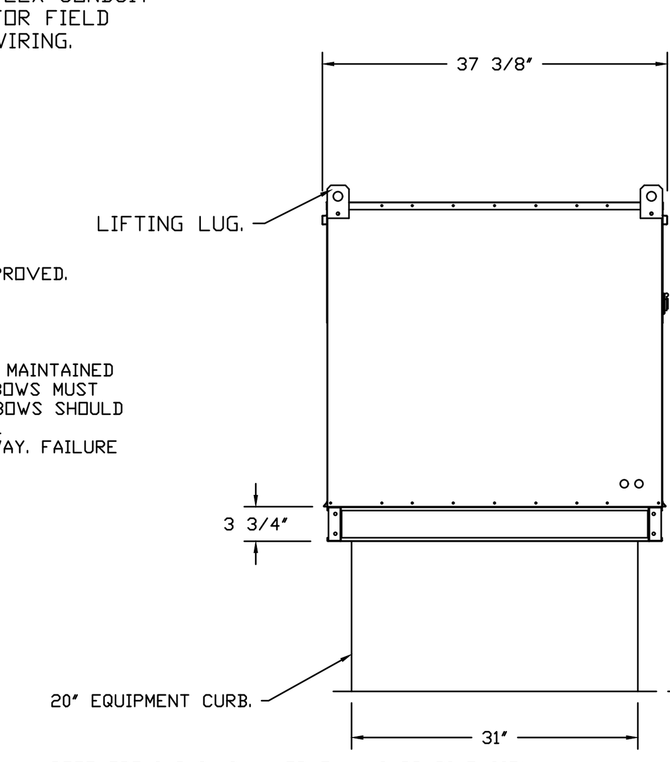


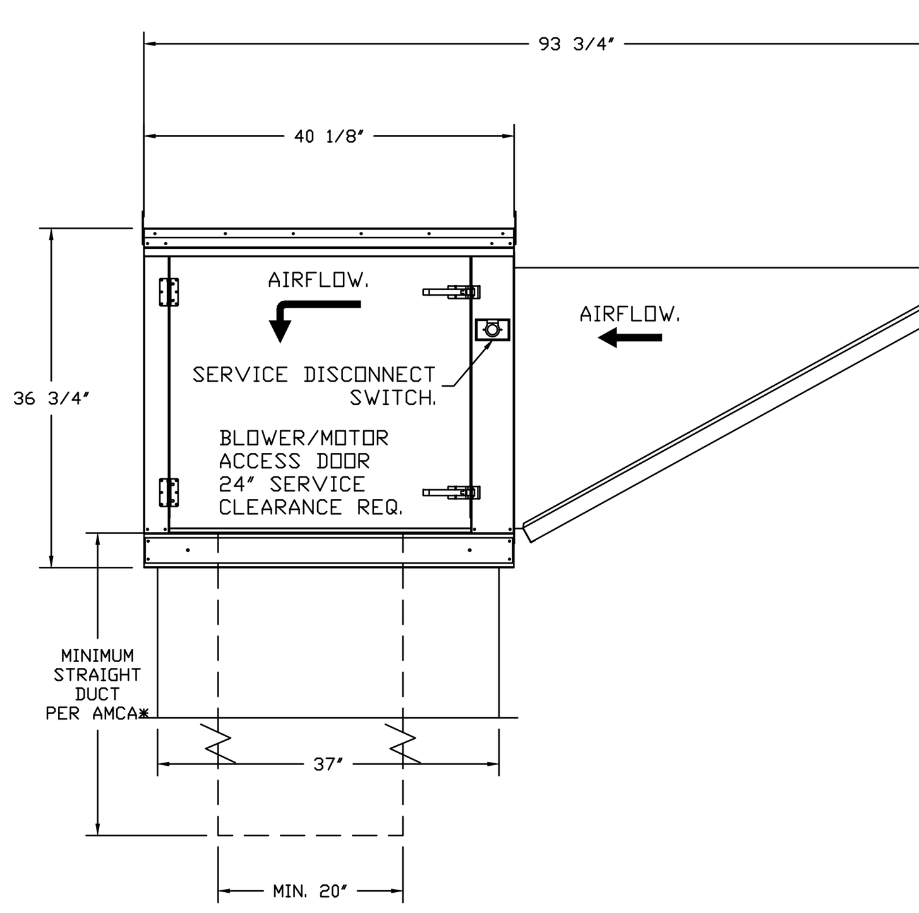


SECTION VIEW – MODEL 5424EX-2-PSP-F
HOOD – #1

FAN #2 EA-A2-20D - SUPPLY FAN
1. UNTEMPERED SUPPLY UNIT WITH 20" MIXED FLOW DIRECT DRIVE FAN IN SIZE #2 HOUSING.
2. INTAKE HOOD WITH EZ FILTERS.
3. DOWN DISCHARGE - AIR FLOW RIGHT -> LEFT.
4. MIAMI DADE IMPACT AND WIND LOAD CERTIFICATION +30 / -130 PSF - MIAMI DADE COUNTY PRODUCT CONTROL APPROVED. FLORIDA BUILDING CODE APPROVAL. ROOF MOUNT EXHAUST CURBS UP TO 20" HIGH MUST BE 16 GAUGE ALUMINIZED.
5. HINGED DOUBLE WALL INSULATED DOOR ASSEMBLY (BURNER/BLOWER SECTION).
6. 2 YEAR PARTS WARRANTY.

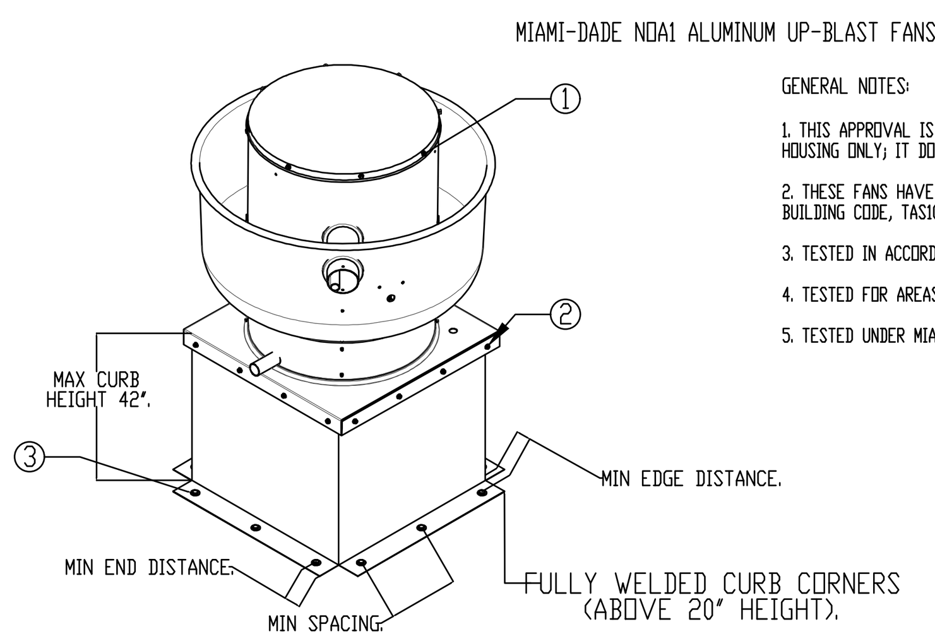
*NOTE: SUPPLY DUCT MUST BE INSTALLED TO MEET SMACNA STANDARDS. A MINIMUM STRAIGHT DUCT LENGTH MUST BE MAINTAINED DOWNSTREAM OF UNIT DISCHARGE AS OUTLINED IN AMCA PUBLICATION 201. WHEN USING RECTANGULAR DUCTWORK, ELBOWS MUST BE RADIUS THROAT, RADIUS BACK WITH TURNING VANES. FLEXIBLE DUCTWORK AND SQUARE THROAT/SQUARE BACK ELBOWS SHOULD NOT BE USED. ANY TRANSITION AND/OR TURNS IN THE DUCTWORK WILL CAUSE SYSTEM EFFECT. SYSTEM EFFECT WILL DRASTICALLY INCREASE STATIC PRESSURE AND REDUCE AIRFLOW. DO NOT RELY ON UNIT TO SUPPORT DUCT IN ANY WAY. FAILURE TO PROPERLY SIZE DUCTWORK MAY CAUSE SYSTEM EFFECTS AND REDUCE PERFORMANCE OF THE EQUIPMENT. SUGGESTED STRAIGHT DUCT SIZE IS 20" x 20".





PITCHED CURBS ARE AVAILABLE FOR PITCHED ROOFS.
SPECIFY PITCH:
EXAMPLE: 7/12 PITCH = 30° SLOPE.

MIAMI-DADE NOA1 ALUMINUM UP-BLAST FANS



GENERAL NOTES:

1. THIS APPROVAL IS FOR THE STRUCTURAL CAPACITY AND IMPACT RATING OF THE EXTERIOR HOUSING ONLY; IT DOES NOT INCLUDE ANY INTERIOR MECHANISM OR ELECTRICAL PART.
2. THESE FANS HAVE NOT BEEN WIND TESTED FOR WIND DRIVEN RAIN TEST PER FLORIDA BUILDING CODE, TAS100 (A)-95.
3. TESTED IN ACCORDANCE TO FLORIDA BUILDING CODE TEST PROTOCOL TAS201, TAS202, TAS203.
4. TESTED FOR AREAS INCLUDING HIGH VELOCITY HURRICANE ZONES.
5. TESTED UNDER MIAMI-DADE COUNTY NOTIFICATION NUMBER ATI-08033.

INSTALLATION INSTRUCTIONS:
1. SECURE LID TO FAN USING (8) 1/4"-14 X 1" ZINC PLATED STEEL SELF DRILLING SHEET METAL SCREWS WITH RUBBER WASHER SPACED EVENLY AROUND LID.

2. SECURE FAN BASE TO CURB USING 1/4"-14 X 2" GALVANIZED SELF DRILLING SCREWS (A307 OR BETTER) THROUGH PRE-PUNCHED HOLES IN THE FAN BASE. (SEE TABLE BELOW FOR QTY).

3. SECURE CURB TO ROOF OR WALL BY DRILLING 1/4" DIA PILOT HOLES IN THE CURB FLANGE AT LOCATIONS SHOWN IN THE DIAGRAM. SEE TABLE BELOW FOR FASTENER TYPE. USE TABLE BELOW FOR FASTENER QTY.

CURB MATERIAL:
20" HIGH & LESS = 20 GA. STEEL.
ABOVE 20" THRU 42" = 16 GA. STEEL.

DESIGN PRESSURE: +150.0 / -150.0 PSF.
LARGE MISSILE IMPACT RESISTANT.

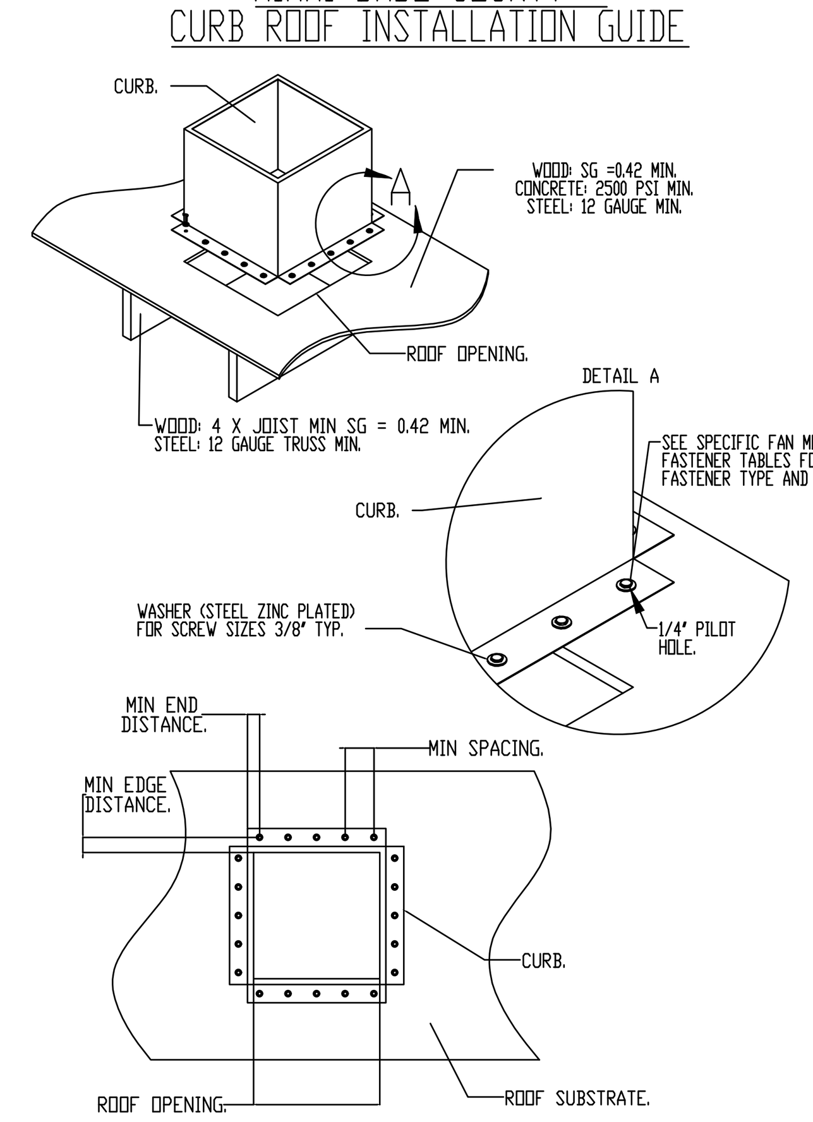
INSTALLATION FASTENER TYPES

	FAN TO CURB	WOOD (SG = 0.42 MIN.)	STEEL (12 GAUGE MIN.)	CONCRETE (2500 PSI MIN. CRACKED CONCRETE)
FASTENER	5/16"-18 X 2" SELF DRILLING SCREW (ELCO DRIL-FLEX OR BETTER)	3/8" DIA. ZINC PLATED LAG BOLT	1/4"-14 DRIL-FLEX SELF DRILLING SCREW	3/8" DIA. SS HILTI KWIK BOLT TZ EXPANSION ANCHOR
MINIMUM THREAD PENETRATION	N/A	2-1/2"	12 GAUGE	2"
MINIMUM EDGE DISTANCE	N/A	1-1/2"	3/8"	3"
MINIMUM END DISTANCE	N/A	2-5/8"	3/8"	3"
MINIMUM SPACING	N/A	1-1/2"	3/4"	5-1/2"

INSTALLATION FASTENER QTY

FAN MODEL	CURB TO FAN (ROOF) PER SIDE	TOTAL	CURB TO FAN (WALL) PER SIDE	TOTAL	WOOD (ROOF) PER SIDE	TOTAL	WOOD (WALL) PER SIDE	TOTAL	STEEL (ROOF) PER SIDE	TOTAL	STEEL (WALL) PER SIDE	TOTAL	CONCRETE (ROOF) PER SIDE	TOTAL	CONCRETE (WALL) PER SIDE	TOTAL
DU180	3	12	3	12	5	20	5	20	6	24	6	24	5	20	5	20

MIAMI-DADE COUNTY –
CURB ROOF INSTALLATION GUIDE



SPECIFICATION: CAPTRATE® GREASE-STOP® SOLO FILTER

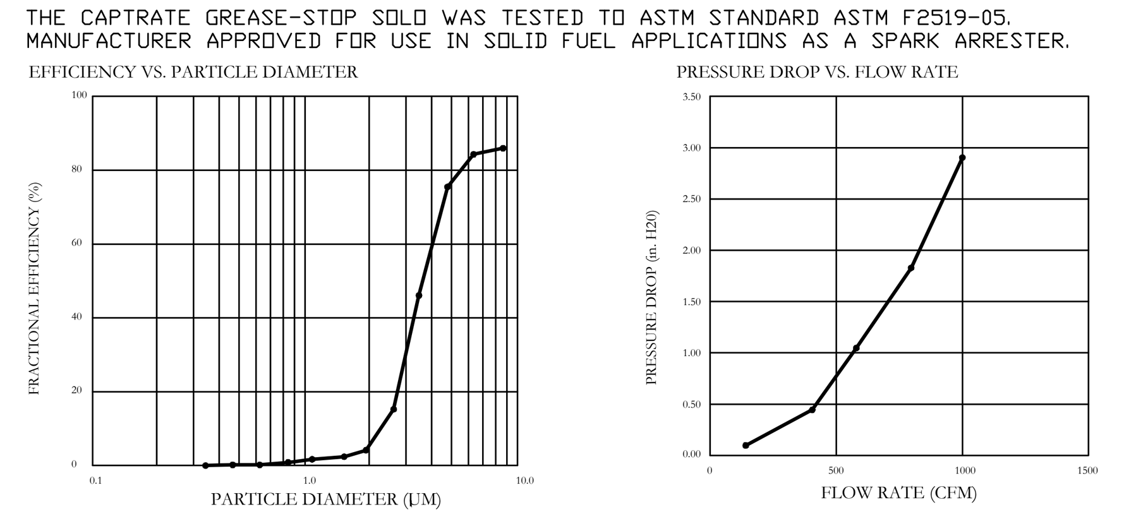
THE CAPTRATE GREASE-STOP SOLO FILTER IS A SINGLE-STAGE FILTER FEATURING A UNIQUE S-BAFFLE DESIGN IN CONJUNCTION WITH A SLOTTED REAR BAFFLE DESIGN, TO DELIVER EXCEPTIONAL FILTRATION EFFICIENCY.

FILTER IS STAINLESS STEEL CONSTRUCTION, AND SIZED TO FIT INTO STANDARD 2-INCH DEEP HOOD CHANNEL(S).

UNITS SHALL INCLUDE STAINLESS STEEL HANDLES AND A FASTENING DEVICE TO SECURE THE TWO COMPONENTS WHEN ASSEMBLED.

GREASE EXTRACTION EFFICIENCY PERFORMANCE SHALL REMOVE AT LEAST 75% OF GREASE PARTICLES FIVE MICRONS IN SIZE, AND 85% GREASE PARTICLES SEVEN MICRONS IN SIZE AND LARGER, WITH A CORRESPONDING PRESSURE DROP NOT TO EXCEED 1.0 INCHES OF WATER GAUGE.

THE CAPTRATE GREASE-STOP SOLO WAS TESTED TO ASTM STANDARD ASTM F2519-05. MANUFACTURER APPROVED FOR USE IN SOLID FUEL APPLICATIONS AS A SPARK ARRESTER.



CAPTRATE FILTERS ARE BUILT IN COMPLIANCE WITH:
NFPA #96.
NSF STANDARD #2.
UL STANDARD #1046.
INT. MECH. CODE (IMC).
ULC-S649.

JOB NO	MODEL NUMBER	DRAWN BY	SCHEMATIC TYPE	DESCRIPTION OF OPERATION:
5180183	DCV-1111		INSTALL	Fire System #1 TANK FS - 4.0/4.0. Tank-based Fire Protection System equipped with Electronic Detection utilizing CORE board as a Listed Release Mechanism. Installed in Hood Utility Cabinet with integral hood prewire panel.
	JOB NAME: Ocala Golf Club	DATE: 11/10/2021	DWG NO: ECP #1-3	

TANK PROTECTION ELECTRICAL DETAIL

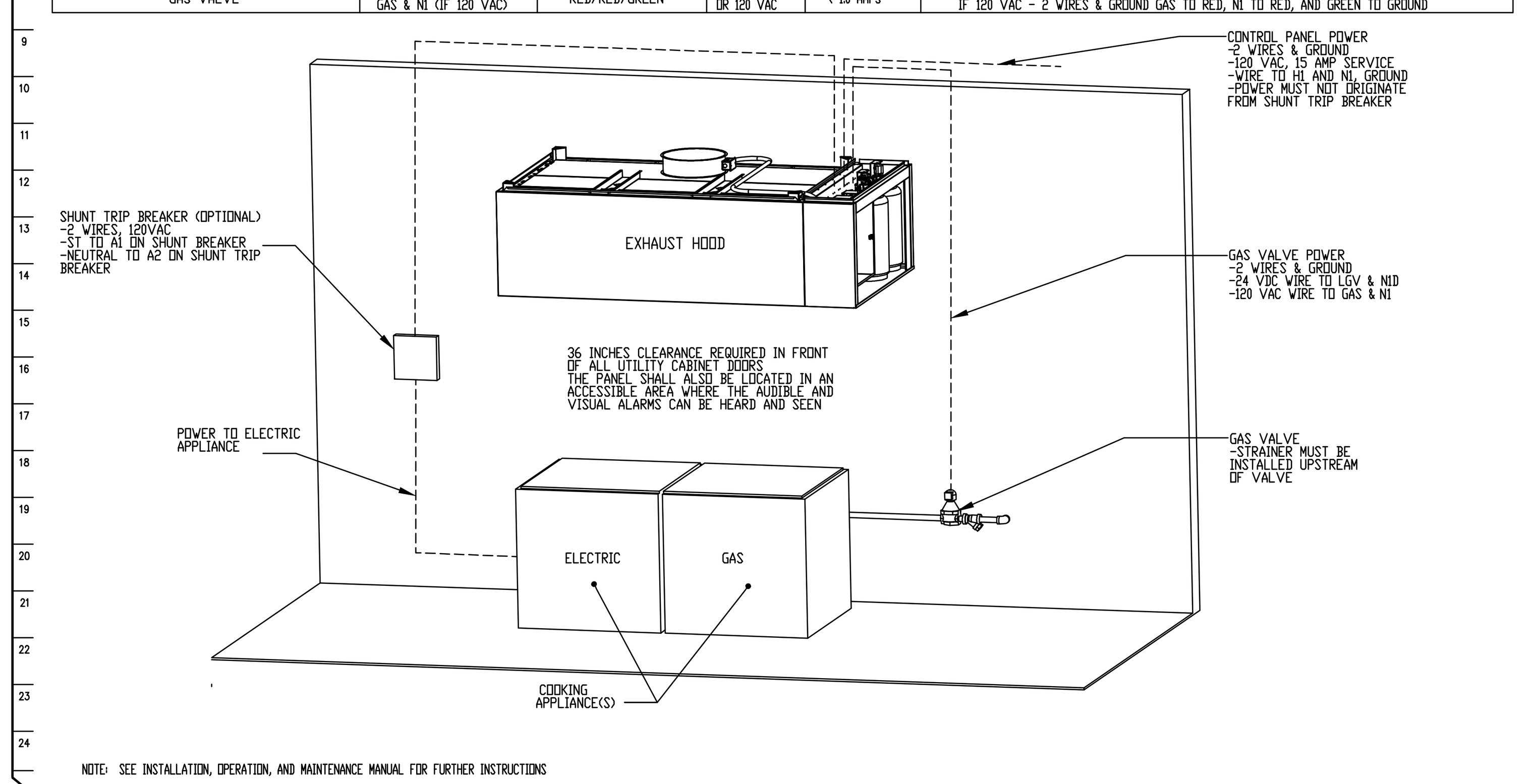
02/10/2021 Rev. 2

FS-1: MASTER

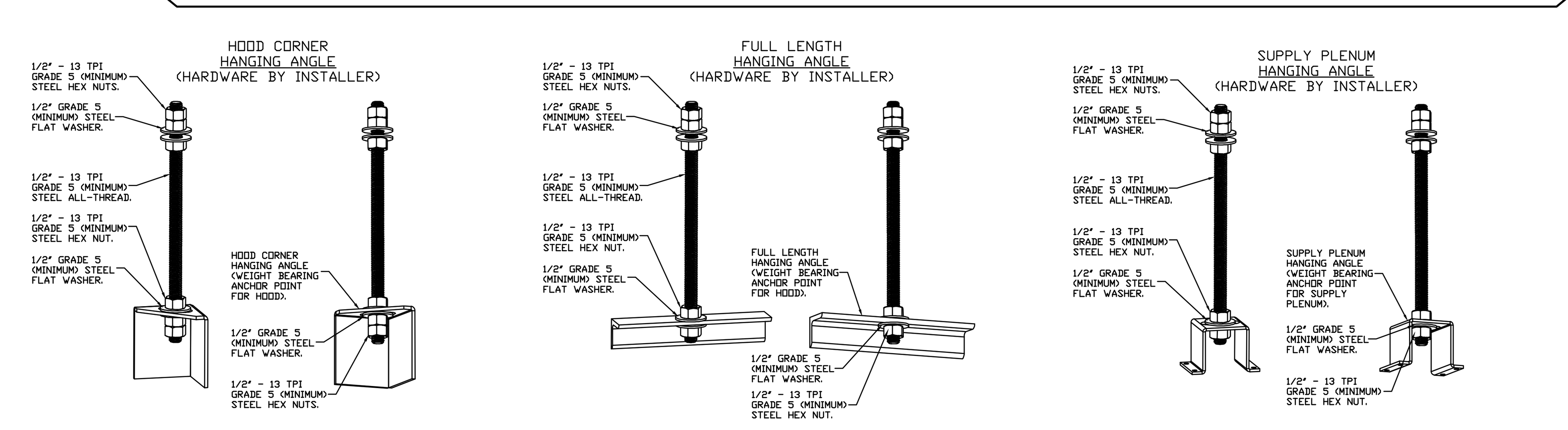
ELECTRICIAN:
1. WIRE MAIN CONTROL PANEL PER INCLUDED SCHEMATIC
2. WIRE ALL FANS PER INCLUDED SCHEMATIC
3. WIRE SHUNT TRIP BREAKER (OPTIONAL)
4. WIRE UDS APPLIANCE KILL SWITCH, IF EQUIPPED (OPTIONAL)
5. WIRE GAS VALVE

ELECTRICAL CONTRACTOR REQUIREMENT

ITEM	CONNECTION IN PANEL	CONNECTION IN DEVICE	VOLTAGE	AMPERAGE	COMMENTS
SHUNT TRIP BREAKER (OPTIONAL)	ST & N1	BREAKER COIL (A1 & A2)	120 VAC	< 4 AMPS	ST TO A1 ON SHUNT BREAKER COIL, AND NEUTRAL TO A2 ON SHUNT TRIP BREAKER COIL
CONTROL PANEL POWER	H1 & N1 + GROUND	CIRCUIT BREAKER	120 VAC	15 AMPS	CONTROL PANEL POWER MUST NOT BE RUN THROUGH SHUNT TRIP BREAKER
UDS APPLIANCE KILL SWITCH (OPTIONAL)	KTS & N1	KTS & N1	120 VAC	< 4 AMPS	KILL SWITCH TERMINALS MUST BE IN SERIES WITH OTHER KILL SWITCHES
REMOTE 120VAC ANSUL AUTOMAN (OPTIONAL)	AU1, AU2	SOLENOID	120 VAC	< 6 AMPS	120V TO AU1, AU2 TO ANSUL ELECTRIC AUTOMAN, ANSUL SOLENOID TO NEUTRAL
GAS VALVE	LGV & N1D (IF 24 VDC) GAS & N1 (IF 120 VAC)	RED/RED/GREEN	24 VDC OR 120 VAC	< 1.0 AMPS	IF 24 VDC - 2 WIRES & GROUND, N1D TO RED, LGV TO RED, AND GREEN TO GROUND IF 120 VAC - 2 WIRES & GROUND GAS TO RED, N1 TO RED, AND GREEN TO GROUND



NOTE: SEE INSTALLATION, OPERATION, AND MAINTENANCE MANUAL FOR FURTHER INSTRUCTIONS



ASSEMBLY INSTRUCTIONS

HANGING ANGLE MUST BE SUPPORTED WITH 1/2" - 13 TPI GRADE 5 (MINIMUM) ALL-THREAD. SANDWICH HANGING ANGLES AND CEILING ANCHOR POINTS WITH 1/2" GRADE 5 (MINIMUM) STEEL FLAT WASHERS AND 1/2" - 13 TPI GRADE 5 (MINIMUM) HEX NUTS AS SHOWN. MUST USE DOUBLED HEX NUT CONFIGURATION BENEATH HOOD HANGING ANGLES AND ABOVE CEILING ANCHORS. MAINTAIN 1/4" OF EXPOSED THREADS BENEATH BOTTOM HEX NUT. TORQUE ALL HEX NUTS TO 57 FT-LBS.

ASSEMBLY INSTRUCTIONS

HANGING ANGLE MUST BE SUPPORTED WITH 1/2" - 13 TPI GRADE 5 (MINIMUM) ALL-THREAD. SANDWICH HANGING ANGLES AND CEILING ANCHOR POINTS WITH 1/2" GRADE 5 (MINIMUM) STEEL FLAT WASHERS AND 1/2" - 13 TPI GRADE 5 (MINIMUM) HEX NUTS AS SHOWN. MUST USE DOUBLED HEX NUT CONFIGURATION ABOVE CEILING ANCHORS. SINGLE HEX NUT BENEATH HANGING ANGLE IS ACCEPTABLE FOR FULL LENGTH HANGING ANGLES. MAINTAIN 1/4" OF EXPOSED THREADS BENEATH BOTTOM HEX NUT. TORQUE ALL HEX NUTS TO 57 FT-LBS.

ASSEMBLY INSTRUCTIONS

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David A. DaSilva
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A NEW RENOVATION FOR:
CO OCALA MUNICIPAL GOLF CLUB
OCALA, FLORIDA

project no.	2136
by	IO
date	11.30.21
sheet no.	M-6

BID DOCUMENTS

Exhibit B - Complete Plan Set

HOOD INFORMATION – JOB#5180183

HOOD NO	TAG	MODEL	MANUFACTURER	LENGTH	MAX COOKING TEMP	TYPE	APPLIANCE DUTY	DESIGN CFM/FT	TOTAL EXH CFM	EXHAUST PLENUM RISER(S) WIDTH	LENG	HEIGHT	DIA	CFM	VEL	SP	TOTAL SUPPLY CFM	HOOD CONSTRUCTION	HOOD CONFIG END TO	RDW
1		5424 EX-2-PSP-F	ECON-AIR	13' 0"	600 DEG	I	HEAVY	200	2600			4"	16"	2600	1862	-0.908"	2100	430 SS WHERE EXPOSED	ALONE	ALONE
2		5424 EX-2-PSP-F	ECON-AIR	9' 0"	600 DEG	I	HEAVY	200	1800			4"	14"	1800	1684	-0.666"	1440	430 SS WHERE EXPOSED	ALONE	ALONE

HOOD INFORMATION

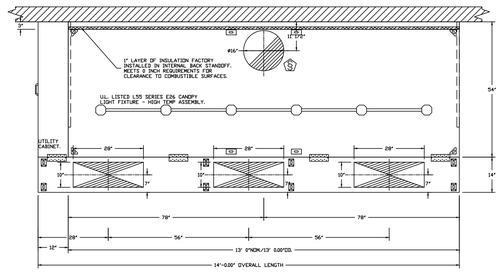
HOOD NO	TAG	FILTER(S) TYPE	QTY	HEIGHT	LENGTH	EFFICIENCY @ 7 MICRONS	LIGHT(S) QTY	TYPE	WIRE GUARD	LOCATION	SIZE	UTILITY CABINET(S) FIRE SYSTEM TYPE	SIZE	ELECTRICAL MODEL #	SWITCHES QUANTITY	FIRE SYSTEM PIPING	HOOD HANGING WEIGHT
1		CAPTRATE SOLO FILTER	9	20"	16"	85% SEE FILTER SPEC	6	L55 SERIES E26	NO	LEFT	12"x54"x24"	TANK FS	4.0/4.0	DCV-1111	1 LIGHT 1 FAN	YES	1171 LBS
2		CAPTRATE SOLO FILTER	6	20"	16"	85% SEE FILTER SPEC	4	L55 SERIES E26	NO	WALL MNT	12"x48"x24"	TANK FS	4.0/4.0	DCV-1111	1 LIGHT 1 FAN	YES	627 LBS

HOOD OPTIONS

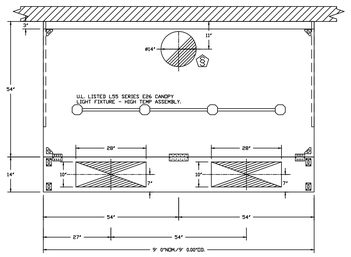
HOOD NO	TAG	OPTION
1		FIELD WRAPPER 18.00" HIGH FRONT, LEFT, RIGHT.
		INSULATION FOR BACK OF HOOD.
		RIGHT WIDE VERTICAL END PANEL 42" TOP WIDTH, 36" BOTTOM WIDTH, 80" HIGH INSULATED 430 SS.
		LEFT WIDE VERTICAL END PANEL 42" TOP WIDTH, 36" BOTTOM WIDTH, 80" HIGH INSULATED 430 SS.
2		WRAPPER CHANNEL - FRONT, LEFT, RIGHT.
		RIGHT WIDE VERTICAL END PANEL 42" TOP WIDTH, 36" BOTTOM WIDTH, 80" HIGH INSULATED 430 SS.
		LEFT WIDE VERTICAL END PANEL 42" TOP WIDTH, 36" BOTTOM WIDTH, 80" HIGH INSULATED 430 SS.
		NO HANGING ANGLES ON WALL MOUNTED UTILITY CABINET(S).

PERFORATED SUPPLY PLENUM(S)

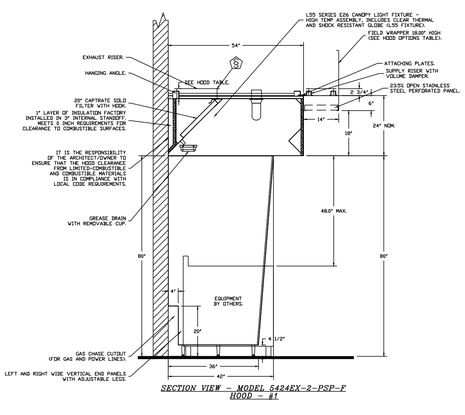
HOOD NO	TAG	POS	LENGTH	WIDTH	HEIGHT	RISER(S) TYPE	WIDTH	LENG	DIA	CFM	SP
1		Front	168"	14"	6"	MUA	10"	28"		700	0.191"
						MUA	10"	28"		700	0.191"
						MUA	10"	28"		700	0.191"
2		Front	108"	14"	6"	MUA	10"	28"		720	0.202"
						MUA	10"	28"		720	0.202"



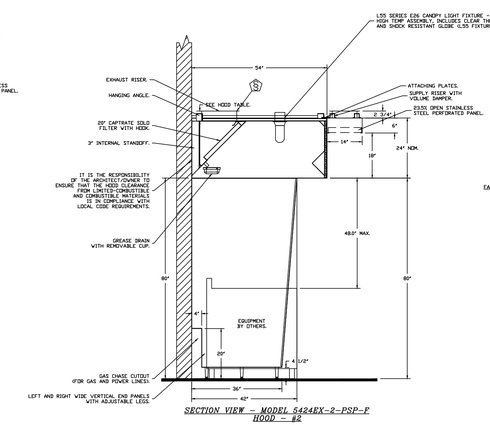
PLAN VIEW – HOOD #1
1.3' 0.00" LONG 5424EX-2-PSP-F
NOTE: ADDITIONAL HANGING ANGLES PROVIDED FOR HOODS 12' AND LONGER.



PLAN VIEW – HOOD #2
9' 0.00" LONG 5424EX-2-PSP-F



SECTION VIEW – MODEL 5424EX-2-PSP-F
HOOD – #1



SECTION VIEW – MODEL 5424EX-2-PSP-F
HOOD – #2

EXHAUST FAN INFORMATION – JOB#5180183

FAN UNIT NO	TAG	QTY	FAN UNIT MODEL #	MANUFACTURER	CFM	ESP	RPM	MOTOR ENCL	HP	BHP	PHASE	VOLT	FLA	DISCHARGE VELOCITY	WEIGHT (LBS)	SONES
1		1	DU180HFA	CAPTIVEAIRE	2600	1.200	1154	TEFC,PREMIUM	1.500	1.0950	3	208	6.5	600 FPM	189	14.3
3		1	DU85HFA	CAPTIVEAIRE	1800	1.000	1368	TEAD-ECM	0.750	0.4620	1	208	5.2	570 FPM	93	13.3

MUA FAN INFORMATION – JOB#5180183

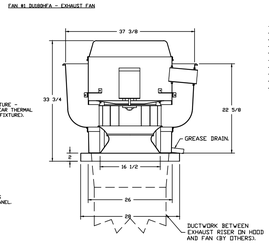
FAN UNIT NO	TAG	QTY	FAN UNIT MODEL #	BLOWER	HOUSING	MIN CFM	DESIGN CFM	ESP	RPM	MOTOR ENCL	HP	BHP	PHASE	VOLT	FLA	MCA	MOCP	WEIGHT (LBS)	SONES
2		1	EA-A2-20D	20MF-2-MOD	A2	1500	2100	0.500	915	ODP,PREMIUM	1.000	0.4170	3	208	3.8	4.8A	15A	394	8.4
4		1	EA-A1-15D	15MF-1-MOD	A1	-	1440	0.400	1436	TEAD-ECM	1.000	0.4670	1	208	6.9	8.7A	15A	229	16

FAN OPTIONS

FAN UNIT NO	TAG	QTY	DESCRIPTION
1		1	GREASE BOX.
		1	FAN BASE CERAMIC SEAL - SHIP LOOSE - FOR GREASE DUCTS.
		1	MIAMI DADE CERTIFICATION - NOA-1 ALUMINUM UPBLAST.
		1	HINGE KIT - SHIPS LOOSE FOR CURB SUPPLIED BY OTHERS.
		1	2 YEAR PARTS WARRANTY.
2		1	MIAMI DADE CERTIFICATION - NOA-2 SUPPLY.
		1	2 YEAR PARTS WARRANTY.
3		1	GREASE BOX.
		1	MIAMI DADE CERTIFICATION - NOA-1 ALUMINUM UPBLAST.
		1	FAN BASE CERAMIC SEAL - SHIP LOOSE - FOR GREASE DUCTS.
		1	ECM WIRING PACKAGE - EXHAUST - MODBUS CONTROL -MSC- (TELCD), CCW ROTATION.
		1	2 YEAR PARTS WARRANTY.
4		1	MIAMI DADE CERTIFICATION - NOA-2 SUPPLY.
		1	ECM WIRING PACKAGE - DD SUPPLY - MODBUS CONTROL-MSC- (TELCD).
		1	2 YEAR PARTS WARRANTY.

CURB ASSEMBLIES

NO	ON FAN	WEIGHT	ITEM	SIZE
1	# 1	30 LBS	CURB	26.500"W X 26.500"L X 26.000"H 3.000±2.000 PITCH ALONG LENGTH, RIGHT VENTED.
2	# 2	42 LBS	CURB	31.000"W X 37.000"L X 20.000"H 3.000±2.000 PITCH ALONG WIDTH, RIGHT INSULATED.
3	# 3	44 LBS	CURB	23.000"W X 23.000"L X 26.000"H ALONG LENGTH, RIGHT VENTED HINGED.
4	# 4	29 LBS	CURB	21.000"W X 29.000"L X 20.000"H ALONG WIDTH, RIGHT INSULATED.



FEATURES:
- DIRECT DRIVE CONSTRUCTION (NO BELTS/PULLEYS).
- ROOF MOUNTED FANS.
- RESTAURANT MODEL.
- UL705 AND UL762 AND ULC-S645
- VARIABLE SPEED CONTROL.
- INTERNAL WIRING.
- THERMAL OVERLOAD PROTECTION (SINGLE PHASE).
- HIGH HEAT OPERATION 300°F (149°C).
- GREASE CLASSIFICATION TESTING.
- NEMA 3R SAFETY DISCONNECT SWITCH.

NORMAL TEMPERATURE TEST
EXHAUST FAN MUST OPERATE CONTINUOUSLY WHILE EXHAUSTING AIR AT 300°F (149°C) UNTIL ALL FAN PARTS HAVE REACHED THERMAL EQUILIBRIUM, AND WITHOUT ANY DETERIORATING EFFECTS TO THE FAN WHICH WOULD CAUSE UNSAFE OPERATION.

ABNORMAL FLARE-UP TEST
EXHAUST FAN MUST OPERATE CONTINUOUSLY WHILE EXHAUSTING BURNING GREASE VAPORS AT 600°F (316°C) FOR A PERIOD OF 15 MINUTES WITHOUT THE FAN BECOMING DAMAGED TO ANY EXTENT THAT COULD CAUSE AN UNSAFE CONDITION.

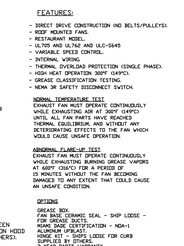
OPTIONS
GREASE BOX.
MIAMI DADE CERTIFICATION - NOA-1 ALUMINUM UPBLAST.
FAN BASE CERAMIC SEAL - SHIP LOOSE - FOR GREASE DUCTS.
ECM WIRING PACKAGE - EXHAUST - MODBUS CONTROL -MSC- (TELCD), CCW ROTATION.
2 YEAR PARTS WARRANTY.

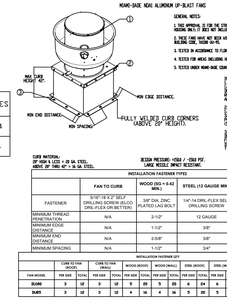
FEATURES:
- DIRECT DRIVE CONSTRUCTION (NO BELTS/PULLEYS).
- ROOF MOUNTED FANS.
- RESTAURANT MODEL.
- UL705 AND UL762 AND ULC-S645
- VARIABLE SPEED CONTROL.
- INTERNAL WIRING.
- THERMAL OVERLOAD PROTECTION (SINGLE PHASE).
- HIGH HEAT OPERATION 300°F (149°C).
- GREASE CLASSIFICATION TESTING.
- NEMA 3R SAFETY DISCONNECT SWITCH.

NORMAL TEMPERATURE TEST
EXHAUST FAN MUST OPERATE CONTINUOUSLY WHILE EXHAUSTING AIR AT 300°F (149°C) UNTIL ALL FAN PARTS HAVE REACHED THERMAL EQUILIBRIUM, AND WITHOUT ANY DETERIORATING EFFECTS TO THE FAN WHICH WOULD CAUSE UNSAFE OPERATION.

ABNORMAL FLARE-UP TEST
EXHAUST FAN MUST OPERATE CONTINUOUSLY WHILE EXHAUSTING BURNING GREASE VAPORS AT 600°F (316°C) FOR A PERIOD OF 15 MINUTES WITHOUT THE FAN BECOMING DAMAGED TO ANY EXTENT THAT COULD CAUSE AN UNSAFE CONDITION.

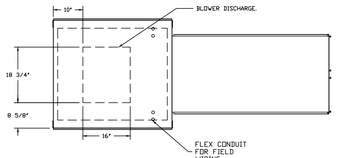
OPTIONS
GREASE BOX.
MIAMI DADE CERTIFICATION - NOA-1
ALUMINUM UPBLAST.
FAN BASE CERAMIC SEAL - SHIP LOOSE - FOR GREASE DUCTS.
ECM WIRING PACKAGE - EXHAUST - MODBUS CONTROL -MSC- (TELCD), CCW ROTATION.
2 YEAR PARTS WARRANTY.

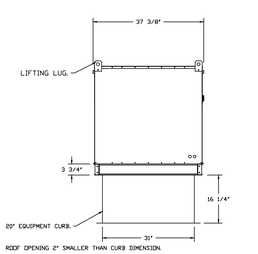


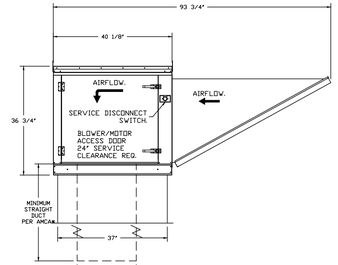


FAN #2 EA-A2-20D - SUPPLY FAN
1. UNTEMPERED SUPPLY UNIT WITH 20" MIXED FLOW DIRECT DRIVE FAN IN SIZE #2 HOUSING.
2. DETACH HOOD WITH EZ FILTERS-LOW CFM.
3. 30HP DISCHARGE - AIR FLOW RIGHT -> LEFT.
4. MIAMI DADE IMPACT AND WIND LOAD CERTIFICATION +30 / -130 PSF - MIAMI DADE COUNTY PRODUCT CONTROL APPROVED. FLORIDA BUILDING CODE APPROVAL. ROOF MOUNT EXHAUST CURBS UP TO 20" HIGH MUST BE 16 GAUGE ALUMINIZED.
5. HINGED DOUBLE WALL INSULATED DOOR ASSEMBLY (BURNER/BLOWER SECTION).
6. 2 YEAR PARTS WARRANTY.

*NOTE: SUPPLY DUCT MUST BE INSTALLED TO MEET SMACNA STANDARDS. A MINIMUM STRAIGHT DUCT LENGTH MUST BE MAINTAINED DOWNSTREAM OF UNIT DISCHARGE AS OUTLINED IN AMCA PUBLICATION 201, WHEN USING RECTANGULAR DUCTWORK, ELBOWS MUST BE RADIUS THROAT, RADIUS BACK WITH TURNING VANES. FLEXIBLE DUCTWORK AND SQUARE THROAT/SQUARE BACK ELBOWS SHOULD NOT BE USED. ANY TRANSITION AND/OR TURNS IN THE DUCTWORK WILL CAUSE SYSTEM STATIC PRESSURE AND REDUCE AIRFLOW. DO NOT RELY ON UNIT TO SUPPORT DUCT IN ANY WAY. FAILURE TO PROPERLY SIZE DUCTWORK MAY CAUSE SYSTEM EFFECTS AND REDUCE PERFORMANCE OF THE EQUIPMENT. SUGGESTED STRAIGHT DUCT SIZE IS 20" x 20".

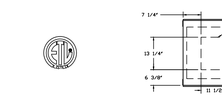


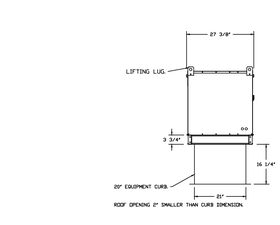


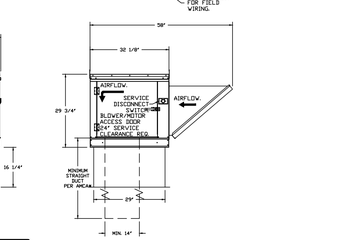


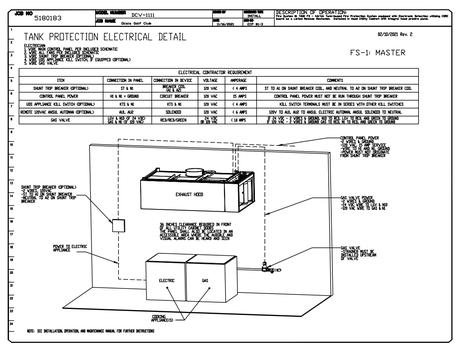
FAN #4 EA-A1-15D - SUPPLY FAN
1. UNTEMPERED SUPPLY UNIT WITH 15" MIXED FLOW DIRECT DRIVE FAN IN SIZE #1 HOUSING.
2. DETACH HOOD WITH EZ FILTERS-LOW CFM.
3. 15HP DISCHARGE - AIR FLOW RIGHT -> LEFT.
4. MIAMI DADE IMPACT AND WIND LOAD CERTIFICATION +30 / -130 PSF - MIAMI DADE COUNTY PRODUCT CONTROL APPROVED. FLORIDA BUILDING CODE APPROVAL. ROOF MOUNT EXHAUST CURBS UP TO 20" HIGH MUST BE 16 GAUGE ALUMINIZED.
5. HINGED DOUBLE WALL INSULATED DOOR ASSEMBLY (BURNER/BLOWER SECTION).
6. 2 YEAR PARTS WARRANTY.

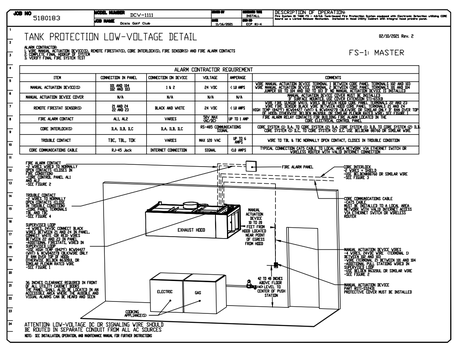
*NOTE: SUPPLY DUCT MUST BE INSTALLED TO MEET SMACNA STANDARDS. A MINIMUM STRAIGHT DUCT LENGTH MUST BE MAINTAINED DOWNSTREAM OF UNIT DISCHARGE AS OUTLINED IN AMCA PUBLICATION 201, WHEN USING RECTANGULAR DUCTWORK, ELBOWS MUST BE RADIUS THROAT, RADIUS BACK WITH TURNING VANES. FLEXIBLE DUCTWORK AND SQUARE THROAT/SQUARE BACK ELBOWS SHOULD NOT BE USED. ANY TRANSITION AND/OR TURNS IN THE DUCTWORK WILL CAUSE SYSTEM STATIC PRESSURE AND REDUCE AIRFLOW. DO NOT RELY ON UNIT TO SUPPORT DUCT IN ANY WAY. FAILURE TO PROPERLY SIZE DUCTWORK MAY CAUSE SYSTEM EFFECTS AND REDUCE PERFORMANCE OF THE EQUIPMENT. SUGGESTED STRAIGHT DUCT SIZE IS 14" x 14".

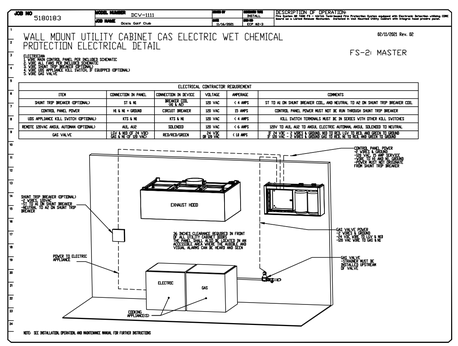


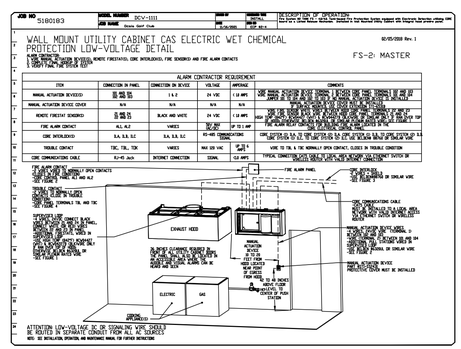












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CO OCALA MUNICIPAL GOLF CLUB
OCALA, FLORIDA

project no. 2136

by	date
IO	11.30.21

sheet no.
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BID DOCUMENTS

PROJECT MANUAL TABLE OF CONTENTS
DIVISION 15 - MECHANICAL

SECTION 15000
HEATING, VENTILATING, AND AIR CONDITIONING, GENERAL

PART 1 - GENERAL
1.01 DESCRIPTION
A. SECTIONS 15000 THROUGH 15890 PERTAIN TO HEATING, VENTILATING AND AIR CONDITIONING (HVAC) WORK. THIS SECTION APPLIES TO AND GOVERNS ALL HVAC SECTIONS.
B. REFER TO OTHER DIVISIONS FOR CONTINUATION OF EXTERIOR AND ALLIED WORK.
C. FIELD PAINTING SHALL BE PROVIDED BY THIS CONTRACTOR. PAINT ALL EXPOSED CONDUITS, PIPING, SUPPORTS ETC. FIELD PAINT SHALL MATCH SIMILAR EXISTING TRADES.

1.02 PERMITS, FEES, CODES, ORDINANCES AND REGULATIONS.
A. OBTAIN AND PAY FOR ALL PERMITS, INSPECTIONS AND CONNECTION FEES REQUIRED BY GOVERNING BODIES IN CONNECTION WITH THE WORK. DELIVER CERTIFICATES OF INSPECTION TO THE OWNER.
B. ALL WORK SHALL COMPLY WITH THE FLORIDA BUILDING CODE, 2017 EDITION AND ALL OTHER GOVERNING CODES, ORDINANCES AND REGULATIONS, THE NATIONAL ELECTRICAL CODE, AND THE FLORIDA MECHANICAL CODE.

1.03 QUALITY ASSURANCE
A. INDUSTRY STANDARDS AND CODES: UNLESS MODIFIED BY THESE SPECIFICATIONS, THE DESIGN, MANUFACTURE, TESTING AND METHOD OF INSTALLING ALL MATERIALS, APPARATUS AND EQUIPMENT SHALL CONFORM TO THE FOLLOWING:
1. ARI CODE FOR REFRIGERATION APPARATUS
2. ANSI B9.1 SAFETY CODE FOR MECHANICAL REFRIGERATION
3. STANDARDS OF NATIONAL FIRE PROTECTION ASSOCIATION
4. SMACNA
5. ASHRAE
B. SUBSTITUTIONS: SEE GENERAL CONDITIONS.

1.04 JOB CONDITIONS
A. PROTECT MATERIALS, APPARATUS AND EQUIPMENT FROM DAMAGE, MOISTURE, DIRT, DEBRIS AND WORK OF OTHER TRADES.
B. USE OF PAPER. CARDBOARD OR OTHER FLIMSY MATERIAL WILL NOT BE PERMITTED. REPLACE DAMAGED PROTECTIVE MATERIALS IMMEDIATELY. DO NOT INSTALL DAMAGED MATERIALS AND EQUIPMENT; REMOVE FROM THE SITE.

PART 2 - PRODUCTS
2.01 GENERAL
A. ALL MATERIALS AND EQUIPMENT SHALL BE NEW. SYSTEMS SHALL BE PROVIDED COMPLETE AND OPERATIONAL TO MAINTAIN THE SPECIFIED DESIGN CAPACITY. SHOULD A SYSTEM, OR ANY PART THEREOF FAIL TO MEET PERFORMANCE REQUIREMENTS THIS CONTRACTOR SHALL BE RESPONSIBLE FOR NECESSARY REPLACEMENTS, ALTERATIONS OR REPAIRS, AS REQUIRED BY THE ENGINEER, TO BRING PERFORMANCE UP TO SPECIFIED REQUIREMENTS. BUILDING CONSTRUCTION OR EQUIPMENT DAMAGED OR MARRED DURING THIS PROJECT SHALL BE RESTORED TO PRIOR CONDITIONS, AT NO ADDITIONAL COST TO THE OWNER.
B. WHERE MULTIPLE ITEMS OF EQUIPMENT OF MATERIALS ARE REQUIRED, THEY SHALL BE THE PRODUCT OF A SINGLE MANUFACTURER.
C. BEFORE ORDERING ANY EQUIPMENT, THE SIZE OF ALL EQUIPMENT SHALL BE CHECKED TO EASILY FIT SPACES ALLOTTED ON THE DRAWINGS.
D. INSERTS PIPE SLEEVES, SUPPORTS AND ANCHORAGE OF AIR CONDITIONING EQUIPMENT SHALL BE PROVIDED AS SPECIFIED HEREIN. WHERE SUCH ITEMS ARE TO SET OR EMBEDDED IN CONCRETE MASONRY OR SIMILAR WORK, THE ITEMS SHALL BE FURNISHED AND LAYOUT MADE AT THE PROPER TIME FOR THE SETTING OR EMBEDMENT THEREOF SO AS TO CAUSE NO DELAY IN THE WORK.
E. PIPING ASSEMBLIES OF EQUIPMENT SHOWN ON THE DRAWINGS ARE DIAGRAMMATIC. ALL PIPING AND APPURTENANCES REQUIRED FOR THE PROPER OPERATION OF ALL EQUIPMENT SHALL BE PROVIDED.

2.02 MANUFACTURER'S NAMES AND CATALOG NUMBERS
A. SPECIFIC REFERENCES HAVE BEEN MADE TO ONE OR MORE MANUFACTURER'S NAMES AND MODEL OR CATALOG NUMBERS.
B. THIS DOES NOT INDICATE THAT THE MATERIAL AND EQUIPMENT SPECIFIED IS NECESSARILY AN "OFF THE SHELF" ITEM; REQUIREMENTS FOR SPECIFIC FINISHES, MATERIALS OR OTHER MODIFICATIONS MAY INTRODUCE VARIANCES FROM MANUFACTURER'S STANDARDS. CONTRACTOR SHALL ASCERTAIN THAT SUCH MODIFICATIONS ARE FULLY CONSIDERED AND APPROVED PRIOR TO INSTALLATION.

2.03 EQUIPMENT IDENTIFICATION
A. EACH MAJOR COMPONENT OF EQUIPMENT SHALL HAVE THE MANUFACTURER'S NAME, ADDRESS AND CATALOG NUMBER ON A PLATE SECURELY AFFIXED IN A CONSPICUOUS PLACE. THE NAMEPLATE OF A DISTRIBUTING AGENT WILL NOT BE ACCEPTED.

PART 3 - EXECUTION
3.01 INSTALLATION AND WORKMANSHIP
A. THE WORK SHALL BE PERFORMED BY QUALIFIED CLASS A MECHANICAL CONTRACTOR AND INSTALL ALL MATERIALS, APPARATUS AND EQUIPMENT IN A NEAT, WORKMANLIKE MANNER. ANY MATERIAL, APPARATUS OR EQUIPMENT WHICH, IN THE OPINION OF THE PROJECT ENGINEER, IS IMPROPERLY INSTALLED SHALL BE REMOVED AND REINSTALLED IN AN APPROVED MANNER AT NO ADDITIONAL COST TO THE OWNER.
B. COORDINATE ALL WORK WITH OTHER TRADES. WHERE THE WORK IS DEPENDENT UPON WORK OF OTHER TRADES OR WORK ALREADY IN PLACE, SUCH OTHER WORK AND WORK IN PLACE SHALL BE EXAMINED AND SHALL BE IN PROPER CONDITION AND STATE OF COMPLETION BEFORE CONTINUING THE INSTALLATION.
C. THE INSTALLATION OF THE SYSTEM SHALL, IN GENERAL, BE IN ACCORDANCE WITH THE DRAWINGS WITH REGARDS TO LOCATION OF EQUIPMENT, DUCTS, PIPES, AND THE LIKE. PIPING INDICATED SHALL BE FOLLOWED AS ACCURATELY AS ACTUAL CONSTRUCTION WILL PERMIT AND ANY DEVIATIONS THEREFROM SHALL BE CALLED TO THE ATTENTION OF THE ENGINEER. WHERE NECESSARY, AS DETERMINED BY THE ENGINEER, CONTRACTOR SHALL FURNISH DRAWINGS SHOWING PROPOSED CHANGES.

3.02 EARTHWORK AND DEWATERING
A. NOT APPLICABLE.

3.03 CUTTING AND PATCHING
A. LAYOUT OPENINGS FOR CUTTING BY OTHER TRADES AS REQUIRED.
B. CUTTING OF STEEL, CONCRETE OR ANY OTHER STRUCTURAL PART MUST BE APPROVED IN WRITING BY ENGINEER PRIOR TO CUTTING.

3.04 WATERPROOFING
A. DO NOT CUT OR PENETRATE WATERPROOFED SURFACES, OR WATERPROOFING MEMBRANES, WITHOUT FIRST MAKING ARRANGEMENTS FOR REPAIR BY A METHOD APPROVED BY PROJECT ENGINEER.

3.05 ELECTRICAL WORK
A. POWER WIRING FROM PANELS TO MOTOR CONTROLLERS AND FROM CONTROLLERS TO MOTORS IS SPECIFIED IN DIVISION 16.
B. PROVIDE MOTOR STARTERS WITH THE MOTORS AT THE FACTORY.
C. SUBMIT WIRING DIAGRAMS FOR APPROVAL AND PROVIDE APPROVED DIAGRAMS SO THAT THE ELECTRICAL WORK MAY BE PROPERLY ACCOMPLISHED.
D. ELECTRICAL CONTROL WIRING FOR CONNECTION OF TEMPERATURE CONTROLLERS, PUSH BUTTONS, INTERLOCKS IN MOTOR CONTROLLERS, AND LIKE ITEMS IS SPECIFIED IN THE CONTROL SECTION(S) IN THIS DIVISION. FURNISH ALL EQUIPMENT WITH COMPLETE INTERNAL CONTROL WIRING.
E. ELECTRICAL WORK SPECIFIED IN THIS DIVISION SHALL CONFORM TO APPLICABLE PROVISIONS OF DIVISION 16. ALL CONTROL WIRING SHALL BE IN CONDUIT.
F. PROVIDE MOTORS CONFORMING TO CHARACTERISTICS SHOWN ON ELECTRICAL DRAWINGS.

3.06 SUPPORTS FOR PIPING AND EQUIPMENT
A. SUPPORT FOR PIPING AND EQUIPMENT SHALL BE SUPPORTED FROM STRUCTURAL MEMBERS AND NOT FROM METAL DECK AND SLAB ASSEMBLIES.

3.07 ACCESS DOORS (ACCESS PANELS)
A. PROVIDE ACCESS REQUIRED FOR MAINTENANCE, ADJUSTMENT, REMOVAL AND REPAIR OF VALVES, CONTROLS, DAMPERS, EQUIPMENT AND LIKE ITEMS FURNISHED HERE-UNDER.

3.08 CLEAN UP
A. REFER TO GENERAL CONDITIONS FOR CLEANING-UP.
B. CLEAN ALL MATERIALS AND EQUIPMENT OF DIRT, DUST, PAINT, SPOTS, AND STAINS, SOIL MARKS AND OTHER FOREIGN MATTER.

3.09 FINAL INSPECTION
A. NOTICE TO THE PROJECT ENGINEER THAT THE WORK IS READY FOR FINAL INSPECTION THE CONTRACTOR SHALL:
1. SUBMIT TEST AND BALANCE REPORT AND COMPLETE REQUIREMENTS AS NOTED.
2. SUBMIT LETTER FROM CONTROL MANUFACTURER CERTIFYING THAT CONTROLS HAVE BEEN CHECKED FOR OPERATION AND CALIBRATION, AND THAT SYSTEM IS OPERATING AS INTENDED.
B. CONTRACTOR SHALL FURNISH NECESSARY MECHANICS TO OPERATE SYSTEM, MAKE NECESSARY ADJUSTMENTS AND ASSIST WITH FINAL INSPECTION.

3.10 INSTRUCTION OF OWNER'S OPERATING PERSONNEL
A. THE CONTRACTOR SHALL INCLUDE THE COST OF THE SERVICES OF QUALIFIED INSTRUCTOR(S) TO INSTRUCT THE OWNER'S OPERATING PERSONNEL IN THE OPERATION, ADJUSTMENT, CARE AND MAINTENANCE OF ALL HVAC EQUIPMENT AND SYSTEMS.
B. INSTRUCTION SHALL BE PERFORMED AT A TIME APPROVED BY THE OWNER AND AFTER ALL HVAC EQUIPMENT AND SYSTEMS ARE INSTALLED, COMPLETE, ADJUSTED AND OPERATING TO SPECIFIED REQUIREMENTS. CONTRACTOR SHALL NOTIFY THE OWNER WHEN INSTRUCTIONS WILL BE GIVEN.
C. QUALIFICATIONS OF INSTRUCTORS SHALL BE SUBJECT TO APPROVAL OF THE OWNER AND EQUIPMENT MANUFACTURER.

D. ADDITIONAL REQUIREMENTS CONCERNING OPERATION AND MAINTENANCE OF MECHANICAL EQUIPMENT AND SYSTEMS MAY BE SPECIFIED IN OTHER SECTIONS.

END OF SECTION

SECTION 15005
VALVES

PART 1 - GENERAL
1.01 DESCRIPTION
A. PROVIDE WHERE INDICATED ON THE DRAWINGS AND SPECIFIED HEREIN.

1.02 QUALITY ASSURANCE
NOT USED.

PART 2 - PRODUCTS
2.01 BALL VALVES
A. PROVIDE FULL PORT DESIGN.
B. VALVES 1/2 INCH AND LARGER SHALL CONFORM TO MSS SP-72 OR SP-110 AND SHALL BE CAST IRON OR BRONZE WITH THREADED, FLANGED ENDS.

2.02 CHECK VALVES
A. CHECK VALVES 2-1/2 INCHES AND SMALLER SHALL CONFORM TO MSS SP-80. VALVES 3 INCHES AND LARGER SHALL CONFORM TO MSS SP-71, CLASS 125.

2.03 BUTTERFLY VALVES
A. VALVES SHALL CONFORM TO MSS SP-67, TYPE 1 AND SHALL BE EITHER WAFER OR LUG TYPE.
B. VALVES SMALLER THAN 8 INCHES SHALL HAVE THROTTLING HANDLES WITH A MINIMUM OF SEVEN LOCKING POSITIONS.

2.04 BALANCING COCKS
A. PROVIDE COPPER ALLOY OR CAST IRON BODY. PROVIDE CALIBRATED VALVE SO THAT FLOW CAN BE READ WHEN TEMPERATURE AND PRESSURE ACROSS THE VALVE IS KNOWN. VALVE SHALL BE ALSO BE USED AS A SERVICE VALVE.

2.05 OPERATORS
A. PROVIDE LEVER OR ELECTRIC OPERATORS.
B. LEVER TYPE OPERATORS SHALL BE USED FOR VALVES UP TO 6" IN SIZE.
C. VALVES USED FOR BALANCING SHALL HAVE INFINITE POSITION LEVER OR GEAR OPERATORS WITH MEMORY STOP.
D. ALL HANDLES SHALL BE PROVIDED WITH EXTENSIONS TO ALLOW FOR INSTALLATION.

PART 3 - EXECUTION
3.01 INSTALLATION
A. INSTALL ALL VALVES IN ACCESSIBLE LOCATIONS AND IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTION.
B. INSULATE ALL VALVES AND FITTINGS.
C. PROVIDE VALVE EXTENSIONS FOR ALL INSULATED PIPE.

END OF SECTION

SECTION 15100
OPERATION AND MAINTENANCE MANUALS

PART 1 - GENERAL
1.01 DESCRIPTION
A. FURNISH THREE COPIES OF COMPLETE OPERATION AND MAINTENANCE MANUALS TO THE ENGINEER, FOR APPROVAL AND FOR THE OWNER, ON ALL EQUIPMENT AND SYSTEMS. THE MANUALS SHALL BE BOUND IN HARD-BACK, THREE RING LOOSE-LEAF BINDERS.

PART 2 - PRODUCTS
2.01 MANUAL CONTENTS
A. TITLE SHEET WITH JOB NAME, AND THE NAMES, ADDRESSES AND PHONE NUMBERS OF THE CONTRACTOR, SUBCONTRACTOR, CONTROL SUBCONTRACTOR, RELATED CONTRACTORS AND MATERIAL AND EQUIPMENT SUPPLIERS.
B. TABLE OF CONTENTS.
C. A COPY OF ACKNOWLEDGMENT OF INSTRUCTION TO THE OWNER'S OPERATING PERSONNEL IN THE OPERATION OF ALL MECHANICAL EQUIPMENT AND SYSTEMS, SIGNED BY THE OWNER OR HIS AUTHORIZED REPRESENTATIVE.
D. TYPEWRITTEN OPERATING INSTRUCTIONS FOR THE OWNER'S PERSONNEL DESCRIBING HOW TO STOP AND START EACH PIECE OF EQUIPMENT, HOW TO SET THE TEMPERATURE CONTROL SYSTEM FOR NORMAL OPERATION AND NORMAL RESTARTING PROCEDURES, CAUTION AND WARNING NOTICES.
E. APPROVED SHOP DRAWINGS, PRODUCT DATA AND PARTS AND MAINTENANCE BOOKLET FOR EACH ITEM OF MATERIAL AND EQUIPMENT FURNISHED UNDER DIVISION 15.
F. RECORD DRAWINGS OF ALL SYSTEMS INCLUDING ELECTRICAL AND CONTROL DIAGRAMS.
G. TEST AND BALANCE REPORT.
H. COPIES OF CERTIFICATES OF INSPECTION.
I. GUARANTEES, INCLUDING EXTENDED GUARANTEES.

PART 3 - EXECUTION
3.01 DELIVERY
A. DELIVER THE MANUALS TO THE OWNER PRIOR TO SUBMITTING APPLICATION FOR FINAL PAYMENT.

3.02 OPERATION AND MAINTENANCE MANUALS

END OF SECTION

SECTION 15112
HVAC PIPING
PART 1 - GENERAL
1.01 QUALITY ASSURANCE
A. PIPING SYSTEMS SHALL BE CONSTRUCTED AND INSTALLED IN ACCORDANCE WITH ASME B31.9, CODE FOR PRESSURE PIPING, BUILDING SERVICES PIPING.
1.02 JOB CONDITIONS
A. INSPECT THE DRAWINGS AND VERIFY EXISTING CONDITIONS IN THE FIELD. REPORT CONFLICTS BEFORE STARTING FABRICATION.
PART 2 - PRODUCTS
2.01 PIPE MATERIAL
A. PIPE: SCHEDULE 40 BLACK STEEL SHALL BE SEAMLESS OR ELECTRIC RESISTANCE WELDED PIPE CONFORMING TO ASTM GRADE A FOR 2" AND SMALLER, AND CONTINUOUS WELD CONFORMING TO ASTM A53-89A TYPE B, ASTM A106 GRADE B. FOR PIPES 2" AND LARGER, PIPES MUST HAVE THE ASTM LABEL.
B. OWNER OPTION: SCHEDULE 80 PVC WITH 2" FOAM GLAS INSULATION AND ALUMINUM JACKET.
2.02 FITTINGS
A. FITTINGS SHALL BE 18 SEAMLESS BLACK STEEL WITH LONG RADIUS CONFORMING TO ANSI B16.9 FOR BUTT-TYPE WELDS.
B. UNIONS - PROVIDE STEEL FLANGE CONNECTIONS.
2.03 GROOVED MECHANICAL FITTINGS
A. GROOVED MECHANICAL FITTINGS AND COUPLINGS FOR STEEL PIPE SHALL BE SELF CENTERING AND THE SHALL ENGAGE AND LOCK IN PLACE IN A POSITIVE WATERTIGHT MANNER.
2.04 HANGERS
A. INSTALL HANGERS IN ACCORDANCE WITH MSS SP-69 AND SP-89.
2.06 FLEXIBLE CONNECTIONS.
A. FLEXIBLE CONNECTIONS SHALL BE PROVIDED FOR EACH COIL OR HVAC DEVICE TO PREVENT TRANSMISSION OF VIBRATIONS.
B. PROVIDE BRAIDED STAINLESS STEEL FLEX CONNECTORS .
PART 3 - EXECUTION
3.01 CONNECTIONS
A. REMOVE ALL PIPING FOUND TO VIBRATE, CHATTER OR PULSATE AND REPLACE WITH NEW MATERIAL.
B. ALL PIPES ARE TO BE INSTALLED IN A LEVEL POSITION WITH ALL VALVES AND FITTINGS IN ACCESSIBLE LOCATIONS. VALVE ACTUATORS ARE TO BE INSTALLED IN A VERTICAL POSITION. TEST ALL PIPES HYDROSTATICALLY AT A MIN OF 100PSI or 1 1/2 TIMES THE WORKING PRESSURE (35 PSI) WHICHEVER IS GREATER.

END OF SECTION

SECTION 15115
REFRIGERANT, PIPING

PART 1 - GENERAL
1.01 DESCRIPTION
A. PROVIDE REFRIGERANT PIPING AS HEREIN SPECIFIED AND AS SHOWN ON THE DRAWINGS.
C. ALL INSTALLATION SHALL COMPLY WITH THE FOLLOWING ASME CODE FOR PRESSURE PIPING ASHRAE STANDARD 15.
PART 2 - PRODUCTS
2.01 PIPING AND TUBING
A. PROVIDE COPPER TUBING, TYPE ACR, HARD DRAWN SEAMLESS TUBING.
2.02 ACCESSORIES
A. PROVIDE AND INSTALL FILTER DRYERS, SIGHT GLASS AND SERVICE VALVES TO EACH CIRCUIT.
B. PROVIDE THERMOSTATIC EXPANSION VALVES FOR EACH CIRCUIT.
PART 3 - EXECUTION
3.01 INSTALLATION
A. ALL REFRIGERANT PIPES VALVES AND FITTINGS SHALL BE INSULATED WITH 3/4" ARMAFLEX INSULATION.

B. JACKETING: PROVIDE ALUMINUM JACKET WITH THE MINIMUM 2" OVERLAPS. JACKET SHALL BE SECURED USING BANDS AND SEALS. (FOR ALL EXPOSED PIPES)
C. INSPECT, TEST AND PERFORM CORRECTIVE ACTION OF REFRIGERANT PIPING IN ACCORDANCE WITH ASME CODEB 31.5, CHAPTER VI AND FLORIDA MECHANICAL CODE.

END OF SECTION

SECTION 15305
DUCTWORK, LOW PRESSURE, GALVANIZED STEEL

PART 1 - GENERAL
1.01 QUALITY ASSURANCE
A. DUCTS SHALL BE CONSTRUCTED AND INSTALLED IN ACCORDANCE WITH "HVAC DUCT CONSTRUCTION STANDARDS" PUBLISHED BY THE SHEET METAL AND AIR CONDITIONING CONTRACTORS NATIONAL ASSOCIATION, INC. (SMACNA) AND THE CURRENT ADOPTED MODEL CODE.
B. SEE NOTES ON DRAWINGS FOR ADDITIONAL DUCTWORK SPECIFICATIONS.

C. DUCT WORK SHALL BE G90 GALVANIZED STEEL, 26 GAUGE MIN OF LOCK FORMING QUALITY.

1.02 JOB CONDITIONS
A. INSPECT THE DRAWINGS AND VERIFY ALL CONDITIONS IN THE FIELD. REPORT CONFLICTS BEFORE STARTING FABRICATION.
PART 2 - PRODUCTS
2.01 DUCT MATERIAL
A. WEIGHTS AND GAUGES SHALL BE IN ACCORDANCE WITH TABLE I OF "HVAC DUCT CONSTRUCTION STANDARDS" PUBLISH BY SMACNA AND THE CURRENT ADOPTED MODEL CODE. DUCT MATERIAL SHALL BE GALVANIZED STEEL.

2.02 SPLITTERS
A. SPLITTERS SHALL BE 18 GAUGE GALVANIZED STEEL WITH HORIZONTAL AND VERTICAL DIMENSIONS SUFFICIENT TO CLOSE OFF AIR TO BRANCH.

2.03 VOLUME DAMPERS
A. VOLUME DAMPERS SHALL BE 18 GAUGE STEEL; SINGLE BLADE UP TO 8"x8", OPPOSED BLADE ON ALL DUCTS OVER 8"x8".
B. PROVIDE DAMPERS WITH INDICATING QUADRANT REGULATORS (SELF-LOCKING REGULATOR).
C. DAMPER RODS SHALL BE 1/2" SQUARE BARS WITH BLADES SECURELY RIVETED TO BAR.
D. PROVIDE DAMPER WITH LOCKING QUADRANT AND 2" STAND OFF.

2.04 TURNING VANES
A. ALL SQUARE AND RECTANGULAR ELBOWS SHALL CONTAIN DOUBLE WALL VANES.

2.05 HANGERS
A. PROVIDE IN ACCORDANCE WITH CHAPTER IV OF SMACNA.
B. PROVIDE GALVANIZED STEEL, PAINTED WITH INORGANIC ZINC.

2.06 FLEXIBLE CONNECTIONS.
A. FLEXIBLE CONNECTIONS SHALL BE PROVIDED FOR EACH AIR HANDLING DEVICE TO PREVENT TRANSMISSION OF VIBRATIONS.
B. MAKE FLEXIBLE CONNECTION A MINIMUM OF 4 INCHES WIDE, FIRE RETARDANT, AIRTIGHT WOVEN FIBROUS GLASS CLOTH.
C. INSTALL BRAIDED COPPER BRIDGE STRAP FOR INSTALLATION ACROSS FLEXIBLE CONNECTIONS.
PART 3 - EXECUTION
3.01 INSTALLATION
A. GENERAL: SLIT, DIVIDE OR TURN DUCTS AS NECESSARY TO AVOID OBSTRUCTIONS AND, IN SUCH CASES, PROVIDE AIR STREAM DEFLECTORS AND INCREASE SIZE OF DUCT TO AN EQUIVALENT AREA.
B. SPLITTERS: RIGIDLY ATTACH SPLITTERS TO PIVOT ROD AND OPERATING LINKAGE. SET DAMPER ASSEMBLY ON RAISED INSULATED BASE ON INSULATED DUCTWORK.
C. VOLUME DAMPERS: SUPPLY AND MAKE-UP AIR DUCTWORK IN CONCEALED SPACES. SET REGULATOR ON RAISED BASE ON INSULATED DUCTWORK. MARK END OF DAMPER ROD TO SHOW DAMPER POSITION.
D. FLEXIBLE CONNECTION: SECURE FLEXIBLE CONNECTIONS TO DUCT AND UNIT WITH GALVANIZED STEEL STRAPS HOLDING THE MATERIAL IN FORMED GALVANIZED STEEL CHANNELS. INSTALL BRAIDED COPPER BRIDGE STRAP ACROSS ALL FLEXIBLE CONNECTIONS.
E. TEST PLUGS: PROVIDE SQUARE HEAD TYPE TEST PLUGS AS REQUIRED FOR INSERTION OF TEST APPARATUS. PROVIDE A RING AND A REMOVABLE INSULATION PLUG WHERE DUCTS ARE INSULATED.
F. PAINTING: PAINT INTERIOR OF DUCTWORK FLAT BLACK WHERE VISIBLE THROUGH GRILLES AND REGISTERS.
G. SEALING: DUCTWORK SHALL BE SEALED IN ACCORDANCE WITH TABLE 1-2 FOR "SEAL CLASS B" OF SMACNA.

3.02 CORRECTIONS
A. REMOVE ALL DUCTWORK FOUND TO VIBRATE, CHATTER OR PULSATE AND REPLACE WITH NEW DUCTWORK.

END OF SECTION

SECTION 15319
DUCTWORK, LOW PRESSURE, FLEXIBLE

PART 1 - GENERAL
1.01 DESCRIPTION
A. PROVIDE WHERE INDICATED ON THE DRAWINGS AND SPECIFIED HEREIN, FACTORY FABRICATED AND PREINSULATED FLEXIBLE DUCTS.

1.02 QUALITY ASSURANCE
A. FLEXIBLE DUCTS, INCLUDING INSULATION AND SEALANTS, SHALL CONFORM TO THE REQUIREMENTS OF NFPA 90A AND UL STANDARD 181 FOR CLASS 1 DUCTS.
B. PERFORMANCE DATA SHALL BE BASED ON TEST PERFORMED IN ACCORDANCE WITH AIR DIFFUSION COUNCIL FLEXIBLE AIR DUCT TEST CODE FD72.

PART 2 - PRODUCTS
2.01 LOW PRESSURE FLEXIBLE DUCTWORK
A. LOW PRESSURE FLEXIBLE DUCTWORK SHALL CONSIST OF CORROSION RESISTANT SPRING STEEL HELIX BONDED TO A GLASS REINFORCED NEOPRENE SLEEVE INSULATED WITH A MINIMUM OF 1 INCH THICK, 1 POUND DENSITY FIBERGLASS INSULATION WHICH IS IN TURN COVERED WITH AN OUTER VAPOR BARRIER OF FIBER REINFORCED FOIL-SCRIM-KRAFT LAMINATE.
B. INSULATION SHALL HAVE A THERMAL CONDUCTIVITY (K) OF NO GRATER THAN 0.25 AT 75°F. (MIN R VALUE OF 6)
C. DUCT FOR LOW VELOCITY SYSTEM CONNECTORS SHALL HAVE A WORKING PRESSURE OF NOT LESS THAN $1\frac{1}{2}$ INCHES OF WATER GAUGE AND A MAXIMUM OPERATING TEMPERATURE OF NOT LESS THAN 250°F.

2.02 DUCT CONNECTORS
A. WHERE FLEXIBLE DUCTS CONNECT TO LOW PRESSURE DUCTS TO FORM RUNOUTS TO INDIVIDUAL OUTLETS, PLENUMS OR LOW PRESSURE TERMINALS, PROVIDE FACTORY FABRICATED FITTINGS COMPLETE WITH MANUAL BALANCING DAMPERS HAVING LOCKING QUADRANTS WITH 2" STAND OFF. WHERE LOW PRESSURE DUCTS ARE INTERNALLY INSULATED THE CONNECTOR SHALL BE FURNISHED WITH AIR EXTENSION TO PROJECT THROUGH AND PROTECT THE INSULATION. FOR CONNECTION TO EQUIPMENT, AUXILIARY SLEEVES SHALL BE PROVIDED TO ALLOW AT LEAST 2 INCHES OF SURFACE FOR CLAMPING OF FLEXIBLE DUCTWORK. SLEEVES SHALL BE SCREWED OR BOLTED TO EQUIPMENT LIP FRAME.

2.03 CLAMPS
A. PROVIDE STAINLESS STEEL BAND, CADMIUM PLATED HEXBOLT ATTACHED TO METAL FITTINGS.

PART 3 - EXECUTION
3.01 INSTALLATION
A. INSTALL DUCT CONNECTORS TO LOW PRESSURE DUCTS USING MANUFACTURER'S TEMPLATE FOR ALL HOLES AND SECURE THE CONNECTOR WITH SHEET METAL SCREWS HAVING FIST APPLIED FOSTER'S 30-02 DUCT SEALANT TO THE ADJOINING SURFACES. DO NOT PRESSURIZE THE SYSTEM FOR 48 HOURS.
B. STRETCH NEW DUCT WHEN REMOVING IT FROM CARTONS WHERE IT MAY HAVE BEEN SHIPPED IN A COMPRESSED STATE.
C. USE THE MINIMUM LENGTH OF FLEXIBLE DUCT REQUIRED TO MAKE THE SPECIFIC CONNECTION UNLESS SPECIFICALLY NOTED OTHERWISE ON THE DRAWINGS. THE MAXIMUM DEVELOP LENGTH OF FLEX DUCT IS 12'-0".
D. AVOID SHARP BENDS. USE A MINIMUM INSIDE BEND RADIUS EQUAL TO (1) TIMES THE INSIDE DIAMETER OF THE DUCT.
E. SUPPORT HORIZONTAL DUCT RUNS AS DETAILED IN THE CONSTRUCTION DOCUMENTS.
F. ALLOW THE FLEXIBLE DUCT TO EXTEND STRAIGHT AWAY FROM CONNECTORS FOR A FEW INCHES PRIOR TO INITIATING ALL BENDS.
G. MAKE ALL CONNECTIONS OF FLEXIBLE DUCT TO RIGID DUCT OR TERMINALS AS FOLLOWS:
1. APPLY FOSTER'S 30-02 SEALANT TO THE INSIDE OF THE FLEXIBLE DUCT TO DEPTH OF 3 INCHES.
2. SLIDE THE FLEXIBLE DUCT OVER THE CONNECTOR AND WRAP WITH MINIMUM OF TWO REVOLUTIONS OF REINFORCED FOIL DUCT TAPE STARTING ABOUT 2 INCHES BACK FROM END OF FLEXIBLE DUCT AND SEALING OVERLAP WITH LAST WRAP.
3. PLACE A CLAMP OR STRAP OVER THE TAPED END AND SECURE FIRMLY.
4. REPAIR ALL DAMAGE TO VAPOR BARRIER WITH FOSTER'S 35-00 REINFORCED WITH 4 INCH WIDE GLASS FABRIC AND A SECOND COAT OF FOSTER'S 35-00.

END OF SECTION

SECTION 15450
AIR DISTRIBUTION EQUIPMENT

PART 1 - GENERAL
1.01 DESCRIPTION AIR DISTRIBUTION DEVICES SHALL BE PROVIDED TO DELIVER THE INDICATED VOLUME OF SUPPLY AIR WITHOUT EXCEEDING THE AVAILABLE THROW AND WITH NC RATING AS FOLLOWS: OFFICES: NC-25 CORRIDORS AND COMPUTER ROOM: NC-30.
PART 2 - PRODUCTS
2.01 DIFFUSERS. GRILLES AND REGISTERS: DIFFUSERS, GRILLES AND REGISTERS SHALL BE AS MANUFACTURED BY METALAIRE OR TITUS, UNLESS NOTED OTHERWISE. FOR MODEL NUMBERS AND TYPES SEE AIR DISTRIBUTION SCHEDULE ON DRAWING. DIFFUSERS, GRILLES, AND REGISTERS SHALL BE OF THE SURFACE, FLUSH OR LAY-IN TYPE, COLOR CORRESPONDING TO THE CEILING IN WHICH THEY ARE LOCATED THE FINISH OF THE DIFFUSERS, GRILLE, OR REGISTER FACE PANEL SHALL BE BAKED ENAMEL, BRIGHT WHITE COLOR.

2.02 MOUNTING SCREWS: WHERE MOUNTING SCREWS ARE REQUIRED IN AIR DISTRIBUTION DEVICES, THEY SHALL BE FINISHED TO MATCH THE ADJACENT SURFACE OF THE DEVICES.

2.03 GASKETS: SUPPLY AND RETURN GRILLES AND REGISTERS WHICH ARE SURFACE MOUNTED SHALL BE PROVIDED WITH SPONGE RUBBER GASKETED FRAMES TO PREVENT SMUDGING.
PART 3 - PRODUCTS
3.01 INSTALLATION: INSTALL WHERE SHOWN ON DRAWINGS. DIFFUSERS, REGISTERS AND FITTINGS SHALL BE SECURELY ATTACHED TO FINISH SURFACES, OR STRUCTURAL MEMBERS BEHIND FINISH SURFACES. LAY-IN DIFFUSERS MOUNTED IN ACOUSTICAL TILE CEILINGS SHALL BE RIGIDLY MOUNTED, ABOVE THE FACE PANEL, TO THE CEILING SUSPENSION SYSTEM.

END OF SECTION

SECTION 15750
AIR HANDLING EQUIPMENT

PART 1 - GENERAL
1.01 DESCRIPTION
A. AIR DISTRIBUTION UNITS SHALL BE PROVIDED TO DELIVER THE INDICATED VOLUME OF SUPPLY AIR AND WITH COOLING CAPACITIES AS INDICATED ON THE SCHEDULE.

PART 2 - PRODUCTS
2.01 AIR HANDLING UNITS (FOR DOUBLE WALL UNITS ONLY)
A. UNITS SHALL BE AS MANUFACTURED BY CARRIER, TRANE, YORK OR EQUAL. FOR MODEL NUMBERS AND TYPES SEE AIR SCHEDULE ON DRAWING. NOTE: UNIT SHALL BE MADE FOR OUTDOOR USAGE.

2.02 CASING
A. FABRICATE UNIT CASING OF NOMINAL 16 GAUGE CHANNEL POST AND GALVANIZED STEEL. UNIT SHALL HAVE DOUBLE WALL WITH 2" THICK, POLYETHYLENE FOAM INSULATION. ALL PANELS TO BE GASKETED.

2.03 ACCESS DOORS
A. GALV. STEEL WITH TWO 6" LONG STAINLESS STEEL PIANO-TYPE HINGES, LATCH AND FULL SIZE HANDLE ASSEMBLY. DOOR TO SWING OUTWARD.

2.04 DRAIN PAN
A. SOLID STAINLESS STEEL INSULATED WITH CROSS BREAK AND DOUBLE SLOPING PITCH TO DRAIN CONNECTION.

2.05 FANS
A. PROVIDE FORWARD CURVED SUPPLY FANS. ALL FANS, MOTORS AND SHEAVES SHALL BE DYNAMICALLY BALANCED.

2.06 COOLING COILS
A. PROVIDE 5/8" COIL TUBES SEAMLESS COPPER WITH COPPER FINS.
B. CERTIFY AIR COIL CAPACITIES & PRESSURE DROPS IN ACCORDANCE WITH ARI 410.

2.07 FILTERS
A. PROVIDE 2" FLAT FILTER SECTION WITH 2" PLEATED PANEL FILTERS. MEDIA-TYPE FILTERS SHALL BE UL 900 LISTED.

PART 3 - PRODUCTS
3.01 INSTALLATION
A. INSTALL WHERE SHOWN ON DRAWINGS AND IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.

END OF SECTION

SECTION 15802
HVAC INSULATION, GENERAL

PART 1 - GENERAL
1.01 DESCRIPTION
A. THIS SECTION GOVERNS ALL HVAC INSULATION.
PART 2 - EXECUTION
2.01 INSTALLATION
A. INSULATION SHALL NOT BE INSTALLED UNTIL TESTING PROCEDURES HAVE BEEN COMPLIED WITH ALL SURFACES AND HAVE BEEN CLEANED FREE OF DIRT AND GREASE AND ARE COMPLETELY DRIED.
B. PROTECT ADJACENT SURFACES, EQUIPMENT AND PREMISES FROM DROPPING OF COATINGS ADHESIVES AND FINISHES.
C. REMOVE ALL EXCESS MATERIALS AND DEBRIS FROM BOTH EXPOSED AND CONCEALED AREAS SO THAT THESE AREAS ARE COMPLETELY CLEAN.
PART 3- EXECUTION
NOT USED

END OF SECTION

SECTION 15841
INSULATION, LOW PRESSURE DUCTWORK

PART 1 - GENERAL
1.01 DESCRIPTION
A. ALL LOW PRESSURE CONCEALED DUCT SYSTEMS, 2 INCHES WATER GAUGE OR LESS, SHALL BE INSULATED.
B. ALL APPLICABLE REQUIREMENTS OF THE SECTION, HVAC INSULATION, GENERAL, SHALL APPLY TO THIS SECTION.
C. ALL EXPOSED DUCTWORK SHALL BE DOUBLE WALL INTERNALLY INSULATED WITH 1 INCH DUCT LINER BY SCHULLER. DUCT LINER SHALL BE COATED WITH AN IMMOBILIZED EPA-REGISTERED ANTI-MICROBIAL AGENT TO RESIST THE GROWING OF FUNGUS AND BACTERIA. FOLLOW MANUFACTURER'S INSTRUCTIONS FOR INSTALLATION AND CLEANING. ALL JOINTS AND FIELD CUTS SHALL BE PROPERLY SEALED WITH MANUFACTURER'S SEALANT/ADHESIVE.

1.02 EQUIVALENT MATERIALS
A. MATERIALS OTHER THAN THOSE SPECIFIED WILL BE CONSIDERED FOR APPROVAL EQUAL.

PART 2 - PRODUCTS
2.01 INSULATION
A. EXTERNAL INSULATION SHALL BE 2 INCH THICK, 1 POUND DENSITY, SCHULLER TYPE SMALLITE, FSK SPIN GLAS OR APPROVED EQUAL WITH AN EMBOSSED ALUMINUM FOIL FACING. (MIN. R VALUE OF 6).

2.02 ADHESIVES, MASTIC, SEALANTS
A. ADHESIVES SHALL BE FOSTER'S 85-20. STUDWELD PINS SHALL BE SEALED WITH FOSTER'S 30-36 ADHESIVE.
B. ALL JOINTS, SEAMS AND BREAKS IN THE VAPOR BARRIER SHALL BE SEALED WITH FOSTER'S 35-00, REINFORCED WITH 4 INCH WIDE GLASS FABRIC.

PART 3 - EXECUTION
3.01 INSTALLATION
A. ALL CONCEALED SUPPLY AND RETURN AIR DUCTWORK SHALL BE INSULATED AND INSTALLED PER SMACNA STANDARDS.
B. AIR SUPPLY DIFFUSER BACKS AND NECKS:
1. ALL AIR SUPPLY DIFFUSERS BACKS AND NECKS, SHALL BE INSULATED WITH $1\frac{1}{2}$ INCH THICK, $\frac{3}{4}$ POUND DENSITY, MANVILLE R-SERIES SMALLITE, OR APPROVED EQUAL FIBERGLASS BLANKET INSULATION, HAVING A CONDUCTANCE (K) NO GREATER THAN .31.

END OF SECTION

SECTION 15845
INSULATION, PIPING

PART 1 - GENERAL
1.01 DESCRIPTION
A. PROVIDE THERMAL INSULATION AS HEREIN SPECIFIED AND AS SHOWN ON THE DRAWINGS..
B. ALL APPLICABLE REQUIREMENTS OF THE SECTION, HVAC INSULATION, GENERAL, SHALL APPLY TO THIS SECTION.
C. ALL INSTALLATION SHALL HAVE A COMPOSITE FIRE AND SMOKE HAZARD RATING AS TESTED BY ASTME84 WITH A MAX. FLAME SPREAD RATING OF 25 AND A SMOKE DEVELOPED RATING OF 450.

1.02 EQUIVALENT MATERIALS
A. MATERIALS OTHER THAN THOSE SPECIFIED WILL BE CONSIDERED FOR APPROVAL EQUAL. NOTE: PREINSULATED PIPING MAY BE USED IN LIEU OF THE ABOVE. (ACCEPTABLE MANUFACTURER'S INCLUDE ENERGY TASK FORCE AND INSULTEK.

PART 2 - PRODUCTS
2.01 INSULATION
A. EXTERNAL INSULATION SHALL BE 2 INCH THICK, CELLULAR GLASS INSULATION IN CONFORMANCE WITH ASTMC556, TYPE 11, WITH A THERMAL CONDUCTIVITY OF .38 AT 75°F. MINIMUM DENSITY OF 7 PCF.

2.02 ADHESIVES, MASTIC, SEALANTS
A. ADHESIVES SHALL BE PITTCOTE 404 COATING WITH PC FABRIC 79 AVAILABLE FROM PITTSBURGH CORNING CORP.
B. ALL JOINTS, SEAMS AND BREAKS IN THE VAPOR BARRIER SHALL BE SEALED WITH PITTSEAL 444 SEALANT BY PITTSBURGH CORNING CORP.

PART 3 - EXECUTION
3.01 INSTALLATION
A. ALL CHILLED WATER PIPES VALVES AND FITTINGS SHALL BE INSULATED WITH 2" CELLULAR GLASS
B. JACKETING: PROVIDE ALUMINUM JACKET WITH THE MINIMUM 2" OVERLAPS. JACKET SHALL BE SECURED USING BANDS AND SEALS.
C. PUMPS, TANKS AND OTHER CHILLED WATER EQUIPMENT SHALL BE INSULATED WITH THE SAME MATERIAL AS THE PIPES ABOVE.

END OF SECTION

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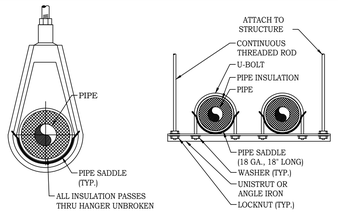
A NEW RENOVATION FOR:
CO OCALA MUNICIPAL GOLF CLUB
OCALA, FLORIDA

project no. 2136
by JJD
date 11.30.21
sheet no.
MS-1

BID DOCUMENTS

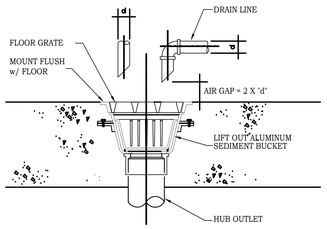


SIZES UP TO 3" SINGLE

MULTIPLE

P1 INSULATED PIPE HANGER DETAIL

N.T.S. M-D009



P2 FLOOR SINK FS-1 DETAIL

N.T.S. P-D012

INSTANTANEOUS WATER HEATER

MARK	STORAGE GALLONS	STORAGE TEMP	KW PER ELEMENT	NUMBER ELEMENTS	TOTAL KW	VOLTAGE/ PHASE	RECOVERY (GPH) @ 100°F	THERMAL EFFICIENCY	MANUFACTURE / MODEL	NOTE
IWH-1	Ø	110°F	3.0	1	3.0	120/1	Ø	97%	EEMAX OR EQUAL	SEE BELOW

NOTES:
1. COORDINATE SELECTION WITH OWNER.
2. IWH SHALL BE INSTALLED AT A LOCATION NOT WITHIN TOE AND/OR KNEE CLEARANCES REQUIRED BENEATH LAVATORY FOR ACCESSIBILITY TO INDIVIDUALS WITH DISABILITIES.

PLUMBING FIXTURE SCHEDULE

TAG	EQUIPMENT	DESCRIPTION / ACCESSORIES	PIPE SIZE CW	PIPE SIZE HW	PIPE SIZE WASTE	PIPE SIZE VENT	MANUFACTURE / MODEL	NOTES
3CS	3 COMPARTMENT SINK	STAINLESS STEEL (18 GA.) WITH GOOSENECK FAUCET	1/2"	1/2"	2"	1-1/2"	ELKAY/JUST OR EQUAL	SEE BELOW
FS-1	FLOOR SINK	ACID RESISTANT DRAIN WITH OPEN GRATE	-	-	3"	1-1/2"	ZURN OR EQUAL	SEE BELOW
FD-1	FLOOR DRAIN	POLISHED BRONZE TOP W/ TRAP PRIMER	-	-	3"	1-1/2"	ZURN Z-400 SERIES	SEE BELOW
LAV-1	LAVATORY WALL HUNG ADA	VITREOUS CHINA SINGLE LEVER FAUCET ADA TYPE	1/2"	1/2"	2"	1-1/2"	KOHLER/AMERICAN STANDARD OR EQUAL	SEE BELOW
SK-1	SINK SINGLE	STAINLESS STEEL (18 GA.) WITH GOOSENECK FAUCET	1/2"	1/2"	2"	1-1/2"	ELKAY/JUST OR EQUAL	SEE BELOW
UR-1	URINAL WALL HUNG	VITREOUS CHINA W/ FLUSH VALVE	3/4"	-	2"	1 1/2"	KOHLER/AMERICAN STANDARD OR EQUAL	SEE BELOW
WC-1	WATER CLOSET ADA (17" HIGH)	PLASTIC ELONGATED SEAT, FLOOR MOUNTED TANK TYPE	3/4"	-	3"	2"	KOHLER/AMERICAN STANDARD OR EQUAL	SEE BELOW
WC-2	WATER CLOSET (15" HIGH)	PLASTIC ELONGATED SEAT, FLOOR MOUNTED TANK TYPE	3/4"	-	3"	2"	KOHLER/AMERICAN STANDARD OR EQUAL	SEE BELOW

NOTES:
1. PROVIDE SHUT OFF VALVES AND P-TRAPS AT ALL PLUMBING FIXTURES.
2. PROVIDE HANDICAP FIXTURES IN ALL HANDICAP DESIGNATED RESTROOMS.
3. ROUTE ⅜" DRAIN, ⅜" HW TO ALL DISHWASHERS FROM NEAREST SINK.
4. PROVIDE PRESSURE BALANCING VALVE AND ANTI SCALD DEVICE FOR ALL SHOWERS AND TUBS.
5. COORDINATE SINK SIZE WITH CABINET INSTALLER.
6. PROVIDE ULTRA-COMPACT THERMOSTATIC MIXING VALVE, WITH TEMPERATURE GAUGE, FOR ALL LAVATORIES AND HAND SINKS, AS MANUFACTURED BY WEBSONE.

CONTRACTOR TO PROVIDE A SEPERATE COST FOR ALL PLUMBING FIXTURES IN BID PACKAGE.
OWNER TO MAKE FINAL SELECTION OF FIXTURES. (CONTRACTOR TO COORDINATE WITH OWNER).

DRAWING LEGEND

DETAIL	DESCRIPTION
SS	SANITARY WASTE PIPING
CW	COLD WATER PIPING
HW	HOT WATER PIPING
140°	HI-TEMP HOT WATER PIPING
HWR	(TEMPERED) HOT WATER RECIRCULATION PIPING
CD	CONDENSATE DRAIN PIPING
	VENT PIPING
SD	STORM DRAIN
	CHECK VALVE
	MIXING VALVE
FCO/ECO	FLOOR CLEANOUT & EXTERIOR CLEANOUT
WCO.	WALL CLEANOUT
	FLOOR DRAIN
	FLOOR SINK
	CONNECT TO EXISTING
	GATE VALVE OR BALL VALVE
RD	ROOF DRAIN
RWL	RAIN WATER LEADER
VTR	VENT THROUGH ROOF
SS	SANITARY SEWER
GWH	GAS WATER HEATER
TMX	THERMOSTATIC MIXING VALVE
GW	GREASE WASTE
A	COMPRESSED AIR
GAS	GAS SERVICE
	DEMO
	NOT IN CONTRACT (N.I.C.)

PLUMBING SPECIFICATIONS

PROVIDE THE FOLLOWING:

SCOPE OF WORK
CONTRACTOR SHALL PROVIDE ALL LABOR AND MATERIALS AS REQUIRED TO PROVIDE A COMPLETE AND OPERATIONAL PLUMBING SYSTEMS AS INDICATED ON THE DRAWINGS. CONTRACTOR SHALL COORDINATE ALL HIS WORK WITH ALL OTHER TRADES.

SPECIAL PROVISIONS
ALL WORK SHALL BE IN COMPLIANCE WITH THE 2020 FLORIDA BUILDING CODE (7TH EDITION), 2020 FLORIDA BUILDING CODE - PLUMBING (7TH EDITION), 2020 FLORIDA ENERGY CONSERVATION CODE (7TH EDITION), ORDINANCES AND REGULATIONS OF THE LOCAL AUTHORITY HAVING JURISDICTION.

SHOP DRAWINGS
BEFORE PURCHASE OR FABRICATION OF EQUIPMENT AND WITHIN 30 DAYS OF AWARD OF GENERAL CONTRACT, CONTRACTOR SHALL SUBMIT TO THE ARCHITECT/ENGINEER FOR APPROVAL, 3 COPIES OF SHOP DRAWINGS FOR ALL EQUIPMENT AND MATERIALS. SHOP DRAWINGS SHALL INDICATE WORKING AND ERECTION DIMENSIONS, ELECTRICAL CHARACTERISTICS (VOLTS, PHASE AND AMPS), LOCATION AT WHICH MATERIALS AND EQUIPMENT ARE TO BE INSTALLED AND OTHER ESSENTIAL DATA. PARTIAL OR INCOMPLETE SUBMITTALS WILL NOT BE ACCEPTED. ANY MATERIAL USED WITHOUT APPROVAL WILL BE REJECTED. PROVIDE SUBMITTALS ON ALL ITEMS EXCEPT PIPING. SUBMIT SHOP DRAWINGS TO ELECTRICAL CONTRACTOR FOR APPROVAL AND COORDINATION.

MATERIALS
MATERIALS, UNLESS OTHERWISE NOTED, SHALL BE NEW, FREE OF DEFECTS AND IN ACCORD WITH FOLLOWING SCHEDULES AND PARAGRAPHS. THE APPROVAL OF ANY MATERIALS WILL NOT BE CONSIDERED AS ACCEPTANCE OF WORK WHERE INSTALLED IF SUCH MATERIALS PROVE DEFECTIVE. WHERE NO SPECIFIC WEIGHTS OR GRADES ARE SPECIFIED, MATERIALS SHALL BE OF THE GENERALLY ACCEPTED STANDARD WEIGHT AND GRADE.

DRAIN, WASTE AND VENT PIPING
SANITARY PIPING SHALL BE SCHEDULE 40 PVC IN CONFORMANCE WITH ASTM F1488.

WATER SYSTEM (DOMESTIC PIPING)
ABOVE GROUND WATER PIPING SHALL BE TYPE 'L' COPPER WITH SWEATED CONNECTIONS. BELOW GROUND PIPING SHALL BE TYPE 'K' COPPER WITH SWEATED CONNECTIONS. PIPING SHALL BE IN CONFORMANCE WITH ASTM B88
A. SOLDER JOINTS WITH FREE FLOWING SOFT LEAD FREE SOLDER (95%) PER ASTM B32
B. PIPING SHALL BE TESTED HYDROSTATICALLY AT A PRESSURE OF 150 PSIG.
C. AFTER COMPLETION OF WORK, THE PIPING SHALL BE FLUSHED AND STERILIZED IN ACCORDANCE WITH THE FLORIDA BUILDING CODE.
D. CPVC MAY BE USED.

INSTALLATION PIPE SHALL BE CUT ACCURATELY TO MEASUREMENTS ESTABLISHED AT THE JOB SITE AND WORKED INTO PLACE WITHOUT FORCING, PROPERLY CLEARING ALL WINDOWS, DOORS, AND OTHER OPENINGS. PIPES SHALL HAVE BURRS REMOVED BY REAMING AND SHALL BE SO INSTALLED AS TO PERMIT FREE EXPANSION AND CONTRACTION WITHOUT DAMAGE TO JOINTS OR HANGERS.

OPERATION AND MAINTENANCE INSTRUCTION
COMPLETE OPERATING AND MAINTENANCE INSTRUCTIONS MANUALS FOR EACH PIECE OF EQUIPMENT, BOUND IN BOOK FORM, SHALL BE PREPARED. OPERATING INSTRUCTIONS EXPLAINING PREVENTIVE MAINTENANCE PROCEDURES, METHODS OF CHECKING THE SYSTEM FOR NORMAL SAFE OPERATION, AND PROCEDURE FOR SAFELY STARTING AND STOPPING THE SYSTEM SHALL BE PREPARED AND INCLUDED WITH THE MANUALS.

GUARANTEE AND WARRANTIES
A. FURNISH OWNER WITH A WRITTEN GUARANTEE PROTECTING THE OWNER FROM COSTS DUE TO POOR WORKMANSHIP AND FAULTY MATERIALS OR EQUIPMENT FOR A PERIOD OF ONE (1) YEAR FROM DATE OF ACCEPTANCE.
B. FURNISH OWNER WITH ORIGINAL EQUIPMENT FACTORY WARRANTIES.

* ANY CHANGES TO THESE DOCUMENTS BASED ON CONTRACTOR REQUESTED REVISIONS SHALL BE CONSIDERED ADDITIONAL SERVICES.

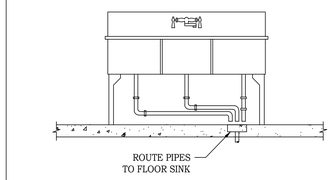
GAS WATER HEATER (NG TYPE)

MARK	STORAGE GALLONS	STORAGE TEMP	BTUH	VENT SIZE	EXHAUST	VOLTAGE	RECOVERY (GPM) @ 100°F	MANUFACTURE / MODEL	NOTE
GWH-1	-	110	199,000	4"Ø	4"Ø	120/1	-	A.O. SMITH/510 SERIES	SEE BELOW

NOTES: PROVIDE THE FOLLOWING:
-ASME RATED
-PROVIDE MAXITOL PRESSURE REDUCER (COORDINATE W/SUPPLIER)
-GFI POWER SUPPLY
-ELECTRONIC IGNITION
-PROVIDE STAINLESS STEEL VENT PIPING TO EXTERIOR WITH 4" VENT CAP
-ZERO INCH CLEARANCE
-MOUNT HEATER ON WALL
-PROVIDE 3" INTAKE VENT
-FLAME SENSOR
-MANUAL RESET
-0.80 EF

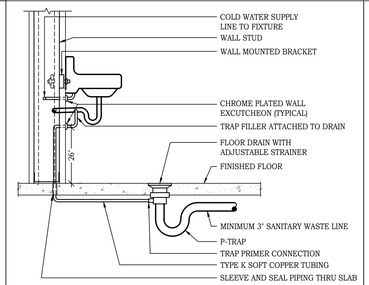
CODE COMPLIANCE REQUIREMENTS

ALL WORK SHALL BE IN COMPLIANCE WITH THE FOLLOWING CODES, BUT NOT LIMITED TO:
7TH EDITION OF THE 2020 FLORIDA BUILDING CODE - BUILDING (FBCB)
7TH EDITION OF THE 2020 FLORIDA BUILDING CODE - EXISTING BUILDING (FBCEB)
7TH EDITION OF THE 2020 FLORIDA BUILDING CODE - ACCESSIBILITY (FBCA)
7TH EDITION OF THE 2020 FLORIDA BUILDING CODE - ENERGY CONSERVATION (FBCEC)
7TH EDITION OF THE 2020 FLORIDA BUILDING CODE - MECHANICAL (FBCM)
7TH EDITION OF THE 2020 FLORIDA BUILDING CODE - PLUMBING (FBCP)
7TH EDITION OF THE 2020 FLORIDA BUILDING CODE - FUEL GAS (FBCFG)
7TH EDITION OF THE 2020 FLORIDA FIRE PREVENTION CODE (FFPC)
NFPA 70 - 2017 NATIONAL ELECTRICAL CODE (NEC)



P3 3 COMPARTMENT SINK DRAIN TO FLOOR SINK

N.T.S.



P4 LAVATORY SUPPORT TRAP PRIMER DETAIL

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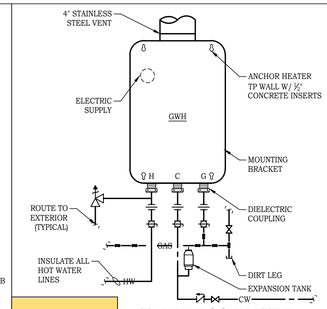
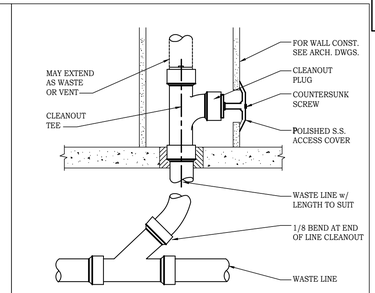


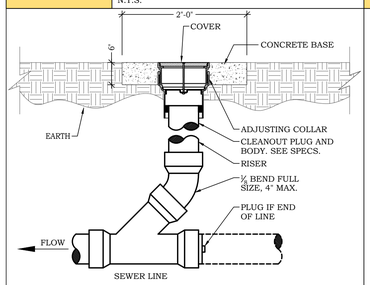
P5 TANKLESS WATER HEATER MOUNTING DETAIL

N.T.S.



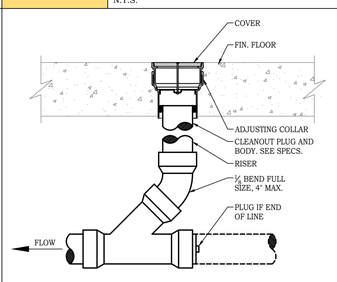
P6 WALL CLEANOUT DETAIL

N.T.S.



P7 EXTERIOR CLEANOUT DETAIL

N.T.S. P-D006



P8 FLOOR CLEANOUT DETAIL

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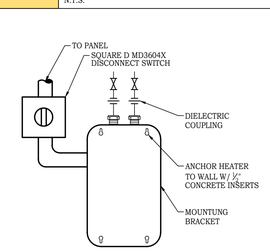

P9 TANKLESS WATER HEATER MOUNTING DETAIL

N.T.S.

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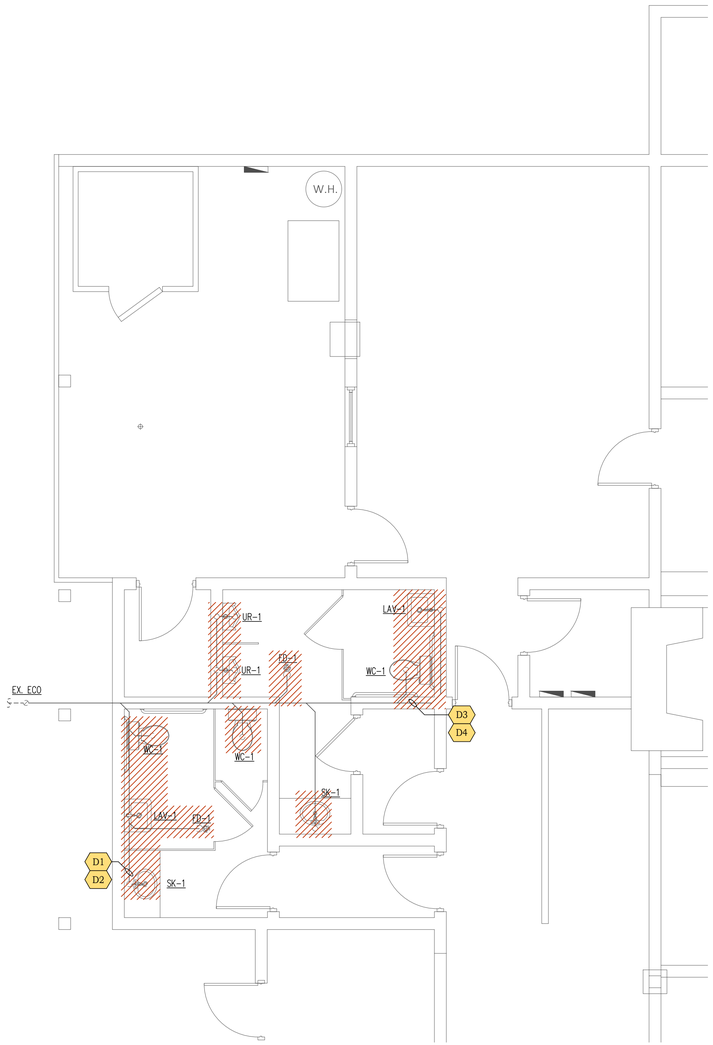
A NEW RENOVATION FOR:
COCOALA MUNICIPAL GOLF CLUB
OCALA, FLORIDA

project no. 2136
by AJB/JJD
date 11.30.21
sheet no.
P–1

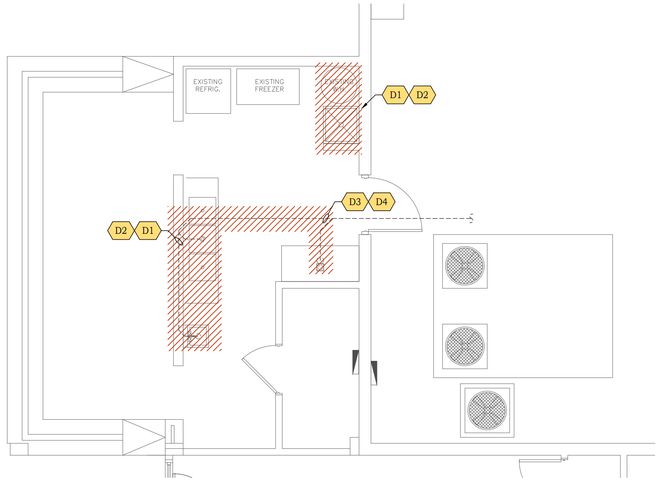
BID DOCUMENTS

DEMOLITION PLAN NOTES

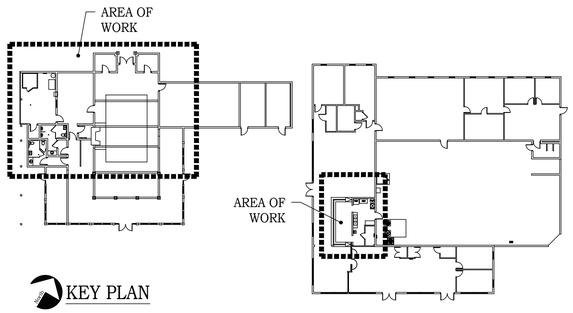
D1.	REMOVE EXISTING PLUMBING FIXTURES.
D2.	REMOVE EXISTING WATER AND SEWER SERVICE TO FIXTURE.
D3.	CAP ALL SEWER/WATER LINES NOT BEING USED.
D4.	SAW CUT WALLS AND SLABS AS NECESSARY TO INSTALL NEW WORK.



SEWER DEMOLITION PLAN
WEST SIDE
1/4" = 1'-0"



SEWER DEMOLITION PLAN
EAST SIDE
1/4" = 1'-0"



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by	date
AJB/JJD	11.30.21

sheet no.
P-2

BID DOCUMENTS

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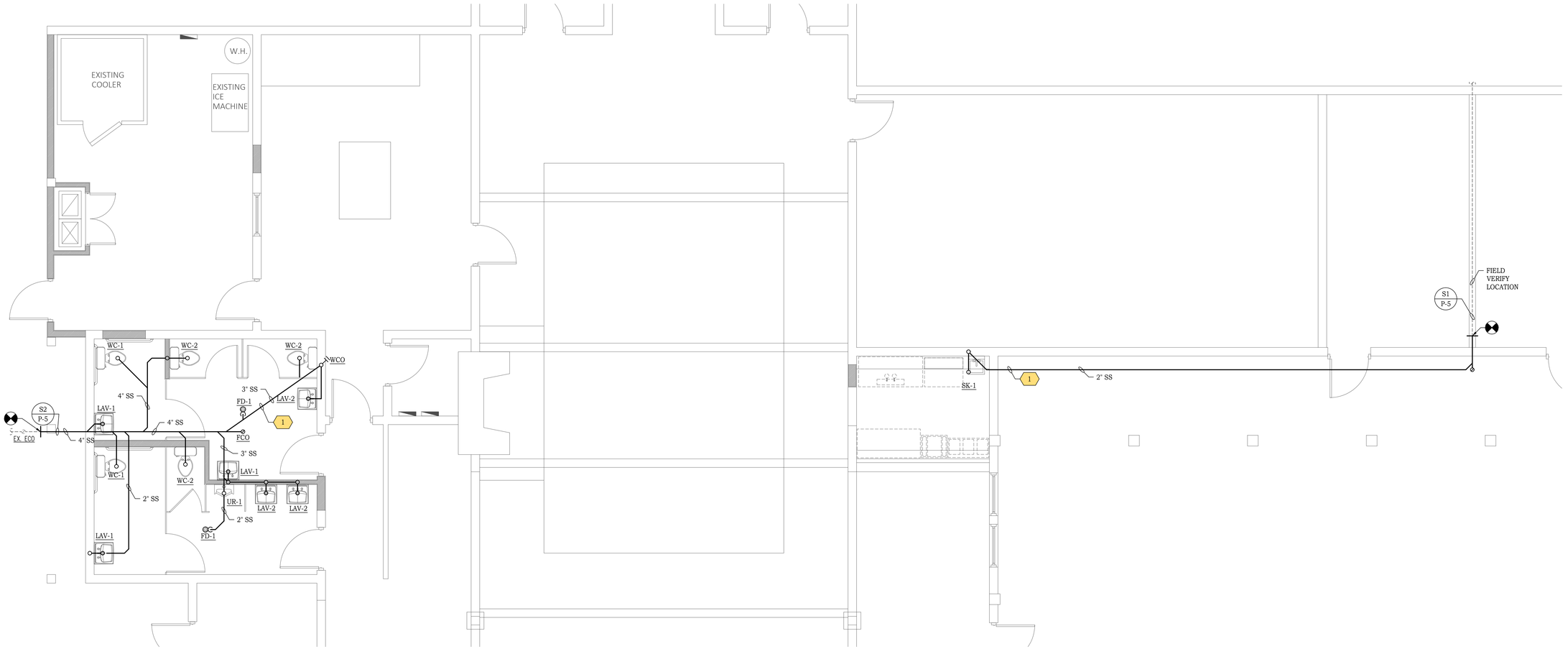
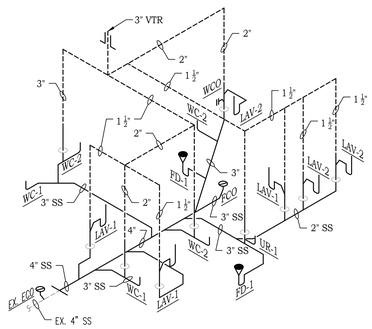
PLAN NOTES

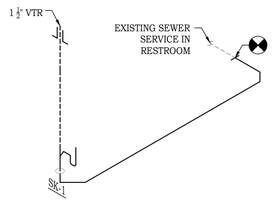
1. SAW CUT WALLS AND SLABS AS NECESSARY TO INSTALL NEW PLUMBING SYSTEM.



PLUMBING PLAN (SEWER)
WEST SIDE
1/4" = 1'-0"



S2 P-5 SEWER RISER
N.T.S.



S1 P-5 SEWER RISER
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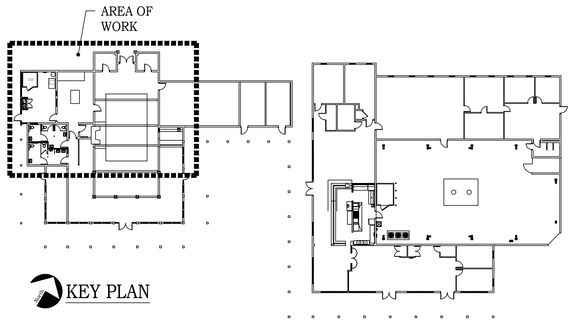

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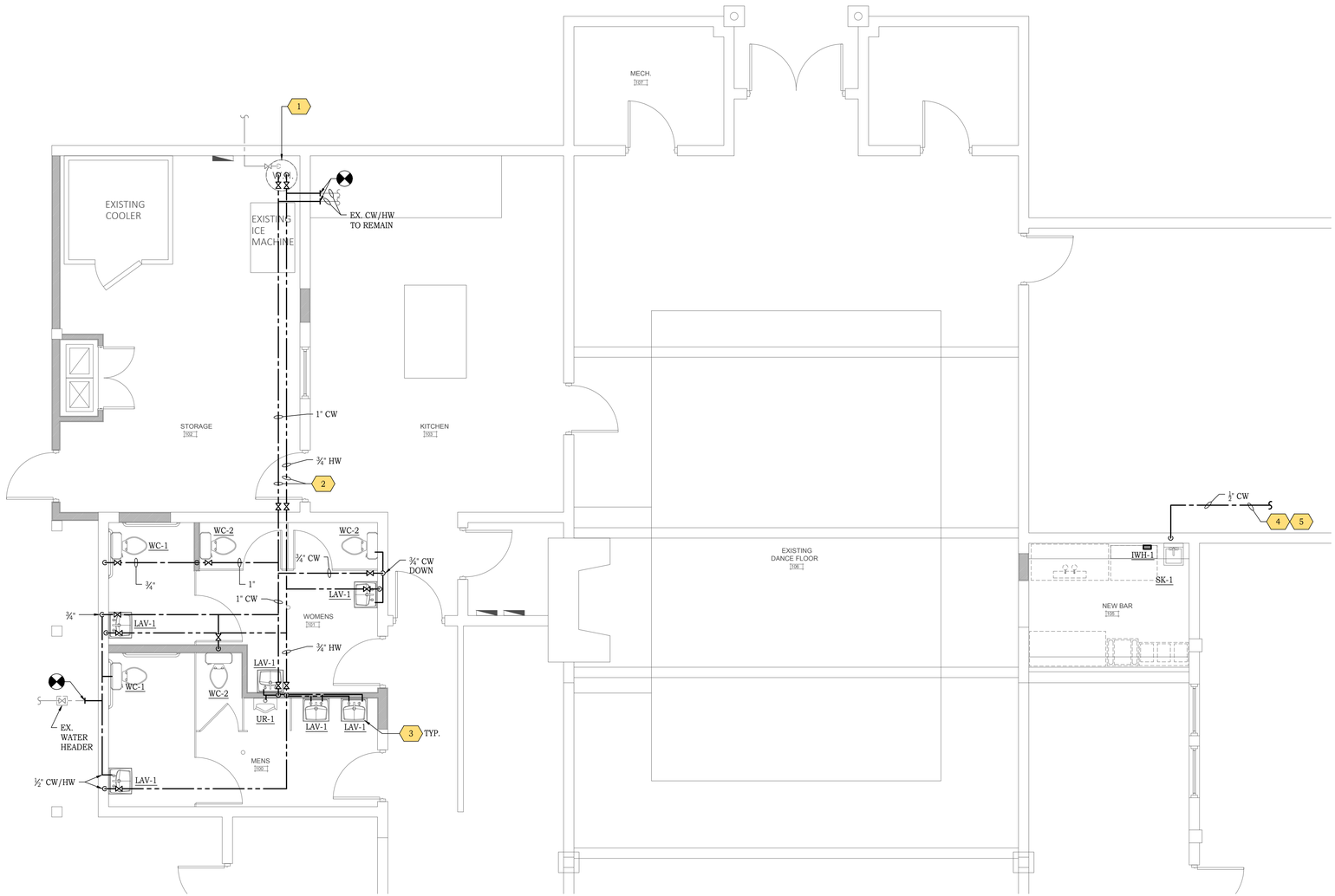
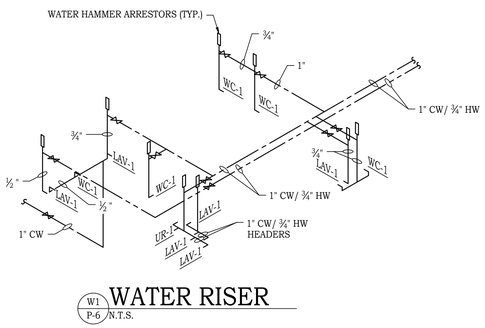
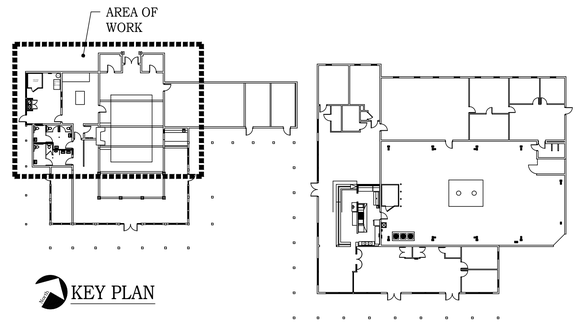
BID DOCUMENTS



PLUMBING PLAN (WATER)
WEST SIDE 1/4" = 1'-0"



W1 P-6 WATER RISER N.T.S.



KEY PLAN

GENERAL NOTES

1. PROVIDE WATER HAMMER ARRESTORS FOR ALL PLUMBING FIXTURES.
2. CONTRACTOR TO CONFIRM PIPE SIZES, LOCATIONS AND FLOW.
3. PROVIDE SHUT OFF VALVES FOR EACH FIXTURE.
4. PROPERLY ANCHOR ALL PIPING TO STRUCTURE.
5. INSULATE ALL HOT WATER PIPES WITH 1" ARMAFLEX.
6. CONTRACTOR TO SAW CUT WALLS AND SLAB AS NECESSARY TO INSTALL NEW WORK. PROPERLY PATCH AND REPAIR.
7. PROVIDE CLEANOUTS AT BASE OF ALL STACKS.

PLAN NOTES

1. CONNECT NEW WATER SERVICE FROM EXISTING WATER HEATER.
2. ROUTE NEW PIPES TO NEW RESTROOMS.
3. INSTALL NEW PLUMBING FIXTURES.
4. ROUTE ½" COLD WATER FROM NEAREST RESTROOM.
5. CONNECT TO EXISTING SYSTEM IN RESTROOMS.

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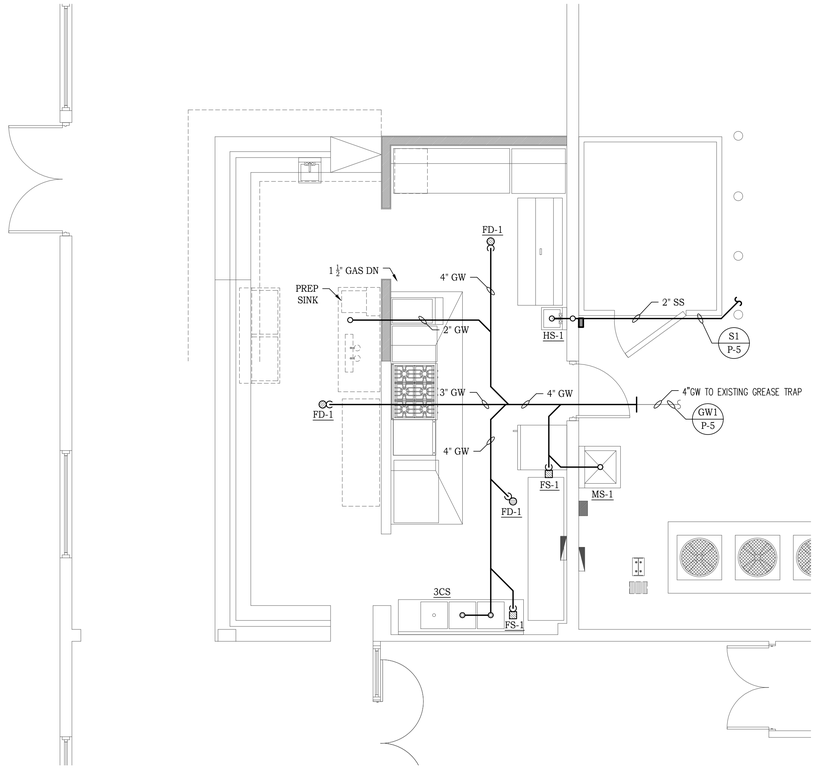
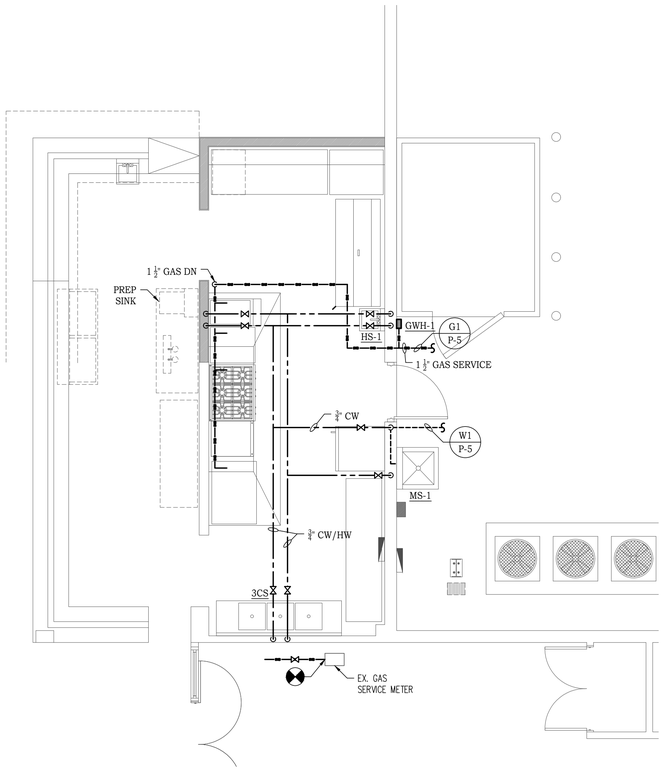
sheet no.
P-4

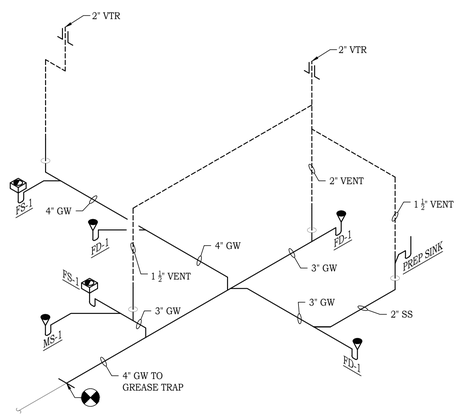
BID DOCUMENTS



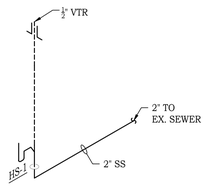
PLUMBING PLAN (SEWER)
EAST SIDE 1/4" = 1'-0"



PLUMBING PLAN (WATER)
EAST SIDE 1/4" = 1'-0"



GW1 / P-5 GREASE WASTE RISER
N.T.S.



S1 / P-5 SEWER RISER
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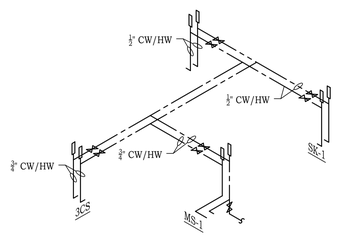

W1 / P-5 WATER RISER
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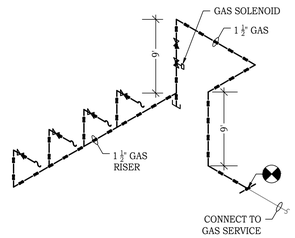

G1 / P-5 GAS RISER
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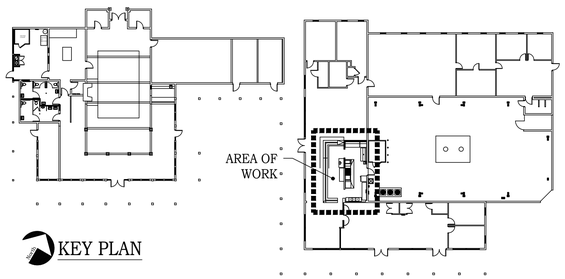

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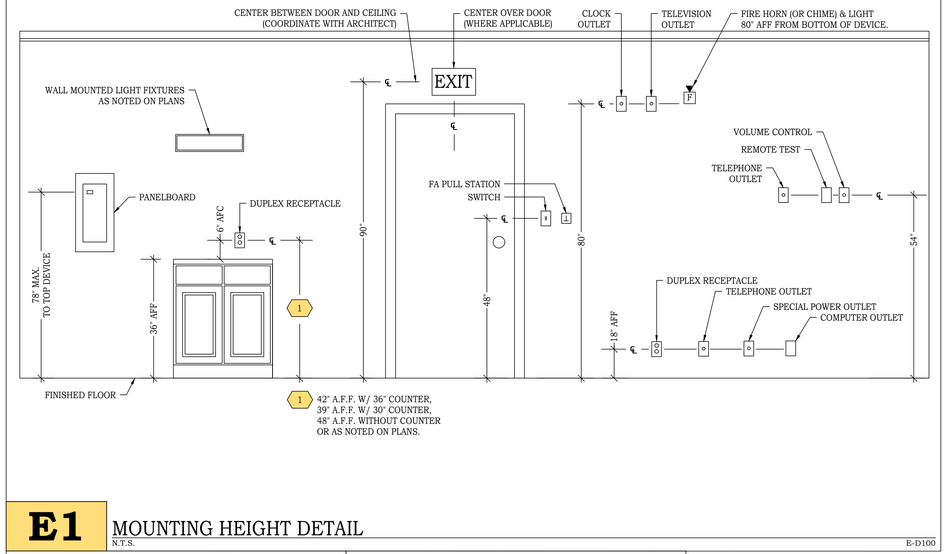
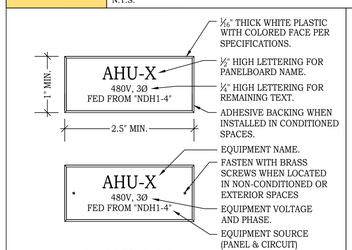


E1 MOUNTING HEIGHT DETAIL

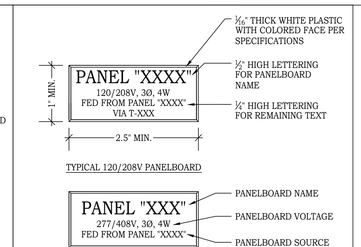
N.T.S. E-D100



TYPICAL EQUIPMENT

E2 EQUIPMENT NAMEPLATE

N.T.S. E-D101

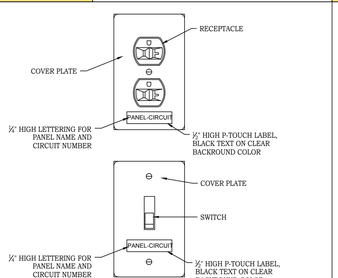


TYPICAL 120/208V PANELBOARD

TYPICAL 120/208V PANELBOARD

E3 PANELBOARD NAMEPLATE

N.T.S. E-D102



E4 DEVICE COVERPLATE

N.T.S. E-D102

ELECTRICAL LEGEND

ABBREVIATIONS

A	AMPERES	KCMIL	THOUSAND OF CIRCULAR MILS
AC	ALTERNATING CURRENT OR AIR CONDITIONER	KVA	KILOVOLT-AMPERES
ADA	AMERICANS W/ DISABILITIES ACT	KW	KILOWATT
AFC	ABOVE FINISHED COUNTER	LTG	LIGHTING
AFF	ABOVE FINISHED FLOOR	MCM	THOUSANDS OF CIRCULAR MILS
AFG	ABOVE FINISHED GRADE	MCB	MAIN CIRCUIT BREAKER
AHU	AIR HANDLING UNIT	MCP	MOTOR CIRCUIT PROTECTION
AIC	AMPS INTERRUPTING CAPACITY	MCU	MASTER OR MOTOR CONTROL UNIT
AWG	AMERICAN WIRE GAUGE	MH	METAL HALIDE
C	CONDUIT	MLO	MAIN LUG ONLY
CATV	CABLE TELEVISION	N	NEUTRAL
CH	COUNTER HEIGHT	NA	NOT APPLICABLE
COND	CONDUIT	NEC	NATIONAL ELECTRIC CODE
CU	COPPER OR CONDENSER UNIT	NEMA	NATIONAL ELECTRICAL MANUFACTURERS ASS.
DISC	DISCONNECT	NF	NON-FUSED
ECB	ENCLOSED CIRCUIT BREAKER	NFPA	NATIONAL FIRE PROTECTION ASSOCIATION
EF	EXHAUST FAN	NIC	NOT IN CONTRACT
ELEC	ELECTRICAL	NL	NIGHT LIGHT
EM	EMERGENCY	O.C.	ON CENTER
EMS	ENERGY MANAGEMENT SYSTEM	P	POLE
EMT	ELECTRICAL METALLIC TUBING	PNL	PANELBOARD
ETR	EXISTING TO REMAIN	PVC	POLYVINYL CHLORIDE
EWC	ELECTRIC WATER COOLER	RGS	RIGID GALVANIZED STEEL
EWH	ELECTRIC WATER HEATER	RM	ROOM
EX	EXISTING	RTU	ROOF TOP UNIT
EXIST	EXISTING	SPEC	SPECIFICATION
FA	FIRE ALARM	SS	SYPER SAVER OR STAINLESS STEEL
FACP	FIRE ALARM CONTROL PANEL	TBB	TELEPHONE/COMPUTER TERMINAL BOARD
G	GROUND	TYP	TYPICAL
GFI	GROUND FAULT INTERRUPTER	UON	UNLESS OTHERWISE NOTED
GND	GROUND	V	VOLTS
GRC	GALVANIZED RIGID CONDUIT	VAV	VARIABLE AIR VOLUME
HVAC	HEATING, VENTILATING AND AIR CONDITIONING	VFD	VARIABLE FREQUENCY DRIVE
J	JUNCTION	W	WIRE
KAIC	(THOUSAND) AMPERE INTERRUPTING CAPACITY	WP	WEATHERPROOF

LIGHTING

- 2'x4' RECESSED FIXTURE
- INTERIOR WALL MOUNTED FIXTURE
- RECESSED DOWNLIGHT
- EMERGENCY LIGHT WITH BATTERY BACKUP - DUAL HEAD
- CEILING MOUNTED EXIT SIGN WITH BATTERY BACKUP - SINGLE FACE-ARROW INDICATES DIRECTION
- COMBINATION EXIT / EMERGENCY LIGHT WITH BATTERY BACKUP

SWITCHES

- S_x SINGLE POLE SWITCH - TOGGLE TYPE - MOUNT 48" AFF. SUBSCRIPT INDICATES AS FOLLOWS: (a) FIXTURES CONTROLLED BY SWITCH (3) 3-WAY (D) DIMMING
- S_M MOTOR RATED SWITCH - 1 OR 2 POLE 30 AMP WITH INTEGRAL THERMAL OVERLOADS
- S_{OC} WALL MOUNTED OCCUPANCY SENSOR SWITCH
- OCS CEILING MOUNTED OCCUPANCY SENSOR
- OCS WALL MOUNTED OCCUPANCY SENSOR
- PCS PHOTOCELL SENSOR

SERVICE AND DISTRIBUTION

- FUSED DISCONNECT SWITCH
- BRANCH CIRCUIT PANELBOARD, UNDER 250 VOLTS, RECESSED MOUNTED

POWER

- DUPLEX RECEPTACLE, 18" AFF
- DUPLEX GFI RECEPTACLE, 18" AFF
- DUPLEX GFI RECEPTACLE MOUNTED ABOVE COUNTER
- QUAD RECEPTACLE
- J J-BOX
- EF EXHAUST FAN MOTOR
- HOME RUN

DATA/COMMUNICATION

- DATA/COMM OUTLET WITH FLUSH MOUNTED 4" SQUARE SINGLE GANGE JUNCTION BOX 18"AFF UNLESS NOTED OTHERWISE. EXTEND 1" CONCEALED CONDUIT TO ABOVE ACCESSIBLE CEILING AND STUB-OUT WITH PLASTIC BUSHING OR AS NOTED. INSTALL PULL WIRE
- DATA/COMM OUTLET JUNCTION BOX FLUSH MOUNTED IN CEILING. EXTEND 1" CONCEALED CONDUIT CONDUIT TO ABOVE ACCESSIBLE CEILING AND STUB-OUT WITH PLASTIC BUSHING OR AS NOTED. INSTALL PULL WIRE
- TV FLUSH MOUNTED TV OUTLET (WIREMOLD EVELUTION EFS SERIES OR EQUAL) WITH RECEPTACLE, TV CONNECTION, AND DATA CONNECTION. EXTEND 1.5" CONCEALED CONDUIT, FOR TV AND DATA CABLE, TO ABOVE ACCESSIBLE CEILING AND STUB-OUT WITH PLASTIC BUSHING OR AS NOTED. INSTALL PULL WIRE. COORDINATE MOUNTING HEIGHTS WITH OWNER PRIOR TO INSTALLATION.

MISCELLANEOUS

- # SHEET NOTE CALLOUT
- # REVISION REFERENCE
- A INDICATES LIGHTING FIXTURE TYPE
- a INDICATES SWITCH DESIGNATION
- 14 INDICATES CIRCUIT NUMBER
- FIXTURES WITH DIAGONAL SHADING DENOTES EMERGENCY FIXTURE WITH INTEGRAL 1400 LUMEN BATTERY PACK. (NL INDICATES NIGHT LIGHT)
- OC# LIGHTING SEQUENCE OF OPERATION CALLOUT
- # RISER EQUIPMENT NOTES

CODE COMPLIANCE REQUIREMENTS

ALL WORK SHALL BE IN COMPLIANCE WITH THE FOLLOWING CODES, BUT NOT LIMITED TO:
- 7TH EDITION OF THE 2020 FLORIDA BUILDING CODE - BUILDING (FBCB)
- 7TH EDITION OF THE 2020 FLORIDA BUILDING CODE - EXISTING BUILDING (FBCEB)
- 7TH EDITION OF THE 2020 FLORIDA BUILDING CODE - ACCESSIBILITY (FBCA)
- 7TH EDITION OF THE 2020 FLORIDA BUILDING CODE - ENERGY CONSERVATION (FBCEC)
- 7TH EDITION OF THE 2020 FLORIDA BUILDING CODE - MECHANICAL (FBCM)
- 7TH EDITION OF THE 2020 FLORIDA BUILDING CODE - PLUMBING (FBCP)
- 7TH EDITION OF THE 2020 FLORIDA BUILDING CODE - FUEL GAS (FBCFG)
- 7TH EDITION OF THE 2020 FLORIDA FIRE PREVENTION CODE (FFPC)
- NFPA 70 - 2017 NATIONAL ELECTRICAL CODE (NEC)

ELECTRICAL SPECIFICATIONS

GENERAL

1. ALL WORK SHALL BE IN ACCORDANCE WITH THE 2017 NATIONAL ELECTRICAL CODE (N.E.C.). 2020 FLORIDA ENERGY CONSERVATION CODE (7TH EDITION), ALL LOCAL CODES, ORDINANCES, REGULATIONS AND UTILITY POWER AND TELEPHONE COMPANY STANDARDS.
2. ALL WIRE SHALL BE COPPER TYPE "THHN" FOR SIZES UP TO #8 AND TYPE "THW FOR #6 AND LARGER (UNLESS OTHERWISE NOTED). MINIMUM WIRE SIZE SHALL BE #12 AWG.
3. ALL BRANCH AND FEEDER CIRCUITS SHALL CONTAIN A SEPARATE GROUNDING CONDUCTOR AND SHALL BE SIZED AND BONDED IN ACCORDANCE WITH ARTICLE 250 OF THE N.E.C.
4. ALL CONDUIT INSTALLED IN INTERIOR LOCATIONS SHALL BE TYP E.M.T. WITH STEEL SET SCREW CONNECTORS AND COUPLINGS. ALL CONDUIT INSTALLED IN EXTERIOR LOCATIONS, ABOVE GRADE, SHALL BE GALVANIZED RIGID CONDUIT. ALL CONDUIT BELOW GRADE SHALL BE SCHEDULE 40 PVC. ALL CONDUITS SHALL BE CONCEALED.
5. CONTRACTOR TO COORDINATE THE LOCATION OF RECEPTACLES, CONTROL CIRCUITS, COMMUNICATIONS AND DATA OUTLETS, LIGHTING FIXTURES AND DEVICES WITH THE OWNER'S REPRESENTATIVE PRIOR TO INSTALLATION.
6. DRAWINGS ARE DIAGRAMMATIC - CONTRACTOR SHALL REFER TO ARCHITECTURAL, CIVIL AND STRUCTURAL DRAWINGS AND FIELD CONDITIONS FOR ALL DIMENSIONS.
7. CONTRACTOR SHALL OBTAIN AND FURNISH ALL PERMITS REQUIRED. PROVIDE ALL LABOR, MATERIALS, EQUIPMENT, APPLIANCES AND TOOLS TO PERFORM ALL WORK NECESSARY FOR THE COMPLETE EXECUTION OF THE ELECTRICAL WORK AS SHOWN ON THE DRAWINGS. PROVIDE WORK NOT SPECIFICALLY SHOWN OR SPECIFIED, YET REQUIRED TO INSURE PROPER AND COMPLETE OPERATION OF ALL SYSTEMS AND TO SATISFY THE DESIGN INTENT IN THE WORK AND TO COMPLY WITH ALL APPLICABLE CODES AND REGULATIONS.
8. THE DRAWINGS INDICATE THE GENERAL ARRANGEMENT OF CIRCUITS AND OUTLETS, LOCATIONS OF SWITCHES PANEL BOARDS, CONDUITS AND OTHER WORK. PRIOR FIELD VERIFICATION OF ALL DIMENSION IS REQUIRED. CONDUIT RUNS AND GROUNDING ARE SHOWN DIAGRAMMATICALLY ONLY. FIELD VERIFY ACTUAL ROUTING OF CONDUITS.
9. ANY PENETRATIONS MADE THROUGH A FIRE RATED ASSEMBLY SHALL BE PROPERLY SEALED TO MAINTAIN THE FIRE RATING OF THE ASSEMBLY PER U.L. AND NFPA.
10. THE WORK SHALL INCLUDE REVISIONS, DEMOLITION, MODIFICATIONS AND REWORK OF THE EXISTING FACILITY AND SYSTEMS AS REQUIRED FOR INSTALLATION OF NEW WORK, AND FOR CONNECTIONS BETWEEN EXISTING WORK AND NEW WORK WHERE REQUIRED. THE WORK SHALL ALSO INCLUDE THE COMPLETION OF ELECTRICAL POWER AND CONTROL CIRCUITS, FOR DEVICES AND EQUIPMENT THAT ARE TO REMAIN IN SERVICE, IF THE CIRCUITS ARE BROKEN BY DEMOLITION WORK, OR BY THE REMOVAL OR CUTTING OF EXISTING BUILDING CONSTRUCTION, EXISTING DEVICES OR EQUIPMENT. EXISTING CONDUIT WIRING SHALL BE REROUTED AND CONNECTED WHERE NECESSARY.
11. EACH BIDDER SHALL INSPECT THE SITE AS REQUIRED FOR KNOWLEDGE OF EXISTING CONDITIONS PRIOR TO BIDDING AND FAILURE TO OBTAIN SUCH KNOWLEDGE SHALL NOT RELIEVE THE SUCCESSFUL BIDDER OF THE RESPONSIBILITY TO MEET EXISTING CONDITIONS IN PERFORMING THE WORK UNDER THIS CONTRACT.
12. WHERE NEW WORK CANNOT BE INSTALLED WITHOUT CHANGES IN EXISTING FACILITY OR SYSTEMS OR WHERE IT IS INDICATED ON DRAWINGS TO REWORK AN EXISTING INSTALLATION, THIS CONTRACT SHALL INCLUDE ALTERATIONS TO EXISTING WORK AS REQUIRED TO INSTALL NEW WORK. ADDITIONS TO THE CONTRACT COST WILL NOT BE ALLOWED BECAUSE OF THIS CONTRACTORS FAILURE TO INSPECT EXISTING CONDITIONS AT THE SITE OF THE WORK.
13. PROVIDE HACR RATED CIRCUIT BREAKERS FOR ALL HVAC EQUIPMENT.

CUTTING AND PATCHING

1. THE RESPONSIBILITY FOR ANY CUTTING OF CONSTRUCTION WHICH IS REQUIRED FOR THE INSTALLATION OF DIVISION 16 WORK, SHALL BE BY THE CONTRACTOR. THE CONTRACTOR SHALL COORDINATE WITH ALL OTHER TRADES AND THE OWNER BEFORE ANY CUTTING AND OBTAIN APPROVAL FROM THE ARCHITECT/ENGINEER PRIOR TO ANY CUTTING. ALL PATCHING, PAINTING AND FINISH SHALL BE BY THE CONTRACTOR.
2. CUTTING SHALL BE DONE WITH EXTREME CARE AND IN SUCH A MANNER THAT THE STRENGTH OF THE STRUCTURE WILL NOT BE ENDANGERED. WHEREVER POSSIBLE, OPENINGS IN CONCRETE OR MASONRY CONSTRUCTION SHALL BE BY CONCRETE SAW OR ROTARY CORE DRILL. OPENINGS IN ANY CONSTRUCTION SHALL BE CUT THE MINIMUM SIZE REQUIRED FOR THE INSTALLATION OF THE WORK. ADEQUATE PROTECTION SHALL BE PROVIDED TO PREVENT DAMAGE TO ADJACENT AREAS AND TO PREVENT DUST FROM SPREADING TO ADJACENT AREAS.
3. WHERE OPENINGS OR HOLES ARE CUT IN CONSTRUCTION AND THE CUTTING BREAKS ELECTRICAL CIRCUITRY OR CONTROL CIRCUITRY CONDUIT AND WIRING, THEN IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO REROUTE THE CIRCUITRY CONDUIT AND REWIRING AND TO COMPLETE THE CIRCUITRY AS REQUIRED AND AS APPROVED BY THE ARCHITECT/ENGINEER. TEMPORARY COMPLETION SHALL BE PROVIDED WHERE NECESSARY BEFORE THE PERMANENT REROUTING AND COMPLETION WORK IS FINISHED.
4. BEFORE ANY CUTTING, PATCHING, OR FINISHING WORK IS STARTED, DUST AND MOISTURE PROTECTION SHALL FIRST BE INSTALLED AS REQUIRED AND AS SPECIFIED IN THESE SPECIFICATIONS.
5. OPENINGS CUT IN FLOOR SHALL BE CUT BY CORE DRILLING WHERE POSSIBLE. AFTER WORK IS INSTALLED THROUGH ANY OPENING IN FLOOR, THE OPENING AROUND THE WORK SHALL BE PATCHED AND SEALED WATERTIGHT AND EPOXY OR SILICONE BASED, NON-CRACKING ELASTOMERIC SEALANT.

PAINTING

1. CONTRACTOR SHALL BE RESPONSIBLE FOR REPAINTING AREAS OF CONSTRUCTION THAT ARE SCRATCHED, MARRED, OR DAMAGED BY THE NEW CONSTRUCTION. CONTRACTOR SHALL MATCH THE COLOR, TYPE AND THICKNESS OF PAINT AS PREVIOUS.

ACCEPTANCE TESTING

1. UPON COMPLETION OF WORK, THE ENTIRE WIRING SYSTEM SHALL BE TESTED, AND SHALL BE SHOWN TO BE IN PROPER WORKING CONDITION IN ACCORDANCE WITH INTENT OF SPECIFICATIONS AND DRAWINGS. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO HAVE ALL SYSTEMS READY FOR OPERATION AND TO HAVE AN ELECTRICIAN AVAILABLE TO OPERATE SAME IN ACCORDANCE WITH AND UNDER THE SUPERVISION OF THE INSPECTION REPRESENTATIVE OF THE ARCHITECT/ENGINEER. THE CONTRACTOR SHALL BE AVAILABLE TO ASSIST IN REMOVAL OF PANEL FRONTS, ETC., TO PERMIT INSPECTION AS REQUIRED.

AS-BUILT DRAWINGS

1. THE CONTRACTOR SHALL PROVIDE AND KEEP UP TO DATE A COMPLETE RECORD SET OF CONSTRUCTION "AS-BUILTS" BLUE LINE PRINTS WHICH SHALL BE CORRECTED DAILY, AND SHALL SHOW EVERY CHANGE FROM THE ORIGINAL CONTRACT DRAWINGS, INCLUDING ADDENDA AND CHANGE ORDERS IN ACCORDANCE WITH GENERAL REQUIREMENTS AND SPECIAL CONDITIONS. THIS SET OF PRINTS SHALL BE KEPT ON THE JOB SITE, AND SHALL BE USED ONLY AS A RECORD SET. THIS SHALL NOT BE CONSTRUED AS AUTHORIZATION FOR THE CONTRACTORS TO MAKE CHANGES IN THE LAYOUT WITHOUT DEFINITE INSTRUCTION IN EACH CASE.

PROTECTION

1. THE CONTRACTOR SHALL KEEP THE CONSTRUCTION SITE CLEAN OF ALL WASTE MATERIALS AND RUBBISH CAUSED BY HIS WORK OR EMPLOYEES. UPON COMPLETION OF THE WORK AND AT TIMES DURING PROGRESS OF THE WORK WHEN REQUESTED BY THE ARCHITECT/ENGINEER, THE CONTRACTOR SHALL REMOVE ALL SURPLUS MATERIALS, RUBBISH, AND DEBRIS RESULTING FROM THE OPERATION, AND SHALL LEAVE THE ENTIRE BUILDING AND INVOLVED PORTIONS OF THE SITE, INSOFAR AS THE WORK OF THE CONTRACT IS CONCERNED, IN A NEAT, CLEAN, AND ACCEPTABLE CONDITION AS APPROVED BY THE ARCHITECT/ENGINEER. EQUIPMENT, LIGHTING FIXTURES, MATERIALS AND ACCESSORIES SHALL BE THOROUGHLY CLEANED OF CEMENT, PLASTER, AND OTHER MATERIALS.
2. THE CONTRACTOR SHALL PROVIDE ADEQUATE PROTECTION, WHEREVER WORK IS TO BE PERFORMED IN FINISHED/OCCUPIED SPACES, TO PREVENT DAMAGE TO ADJACENT AREAS, EQUIPMENT, OR FURNISHINGS; TO PREVENT ACCIDENTAL INJURY TO BUILDING OCCUPANTS AND THE PUBLIC; TO PREVENT THE SPREADING OF DUST, DIRT, DEBRIS, AND MOISTURE FROM THE AREA WHERE WORK IS BEING PERFORMED; AND TO PREVENT DUST, DIRT, DEBRIS, AND MOISTURE FROM GETTING ON OR IN THE BUILDING OCCUPANTS FURNISHINGS OR EQUIPMENT.
3. THE CONTRACTOR SHALL REPAIR, AT NO COST TO THE OWNER, ANY DAMAGE DONE BY HIMSELF OR HIS EMPLOYEES. HE SHALL ALSO BE RESPONSIBLE FOR ALL CUTTING AND PATCHING REQUIRED TO PROPERLY INSTALL HIS WORK. THIS SHALL ALSO INCLUDE THE PATCHING OF EXISTING ROADWAYS (PAVED OR IMPROVED), PARKING AREAS, SIDEWALKS, CURBS, GUTTERS, ETC., CUT TO INSTALL WORK PROVIDED BY THE CONTRACTOR. PATCH WORK SHALL COMPLY WITH THE APPLICABLE SECTIONS OF THESE SPECIFICATIONS AND SHALL MATCH THE EXISTING FINISHES.

GENERAL NOTES

1. ALL ELECTRICAL CONDUITS SHALL CARRY A SEPARATE GREEN INSULATED COPPER WIRE SIZED PER NEC UNLESS OTHERWISE INDICATED IN THE DRAWINGS.
2. COORDINATE ELECTRICAL REQUIREMENTS FOR ALL EQUIPMENT TO BE INSTALLED BY OTHER TRADES.
3. MULTIWIRE BRANCH CIRCUITS IN A SINGLE CONDUIT RUN SHALL BE ALLOWED. WIRE SIZES MIGHT REQUIRE UPSIZING FOR CONDUITS CONTAINING MORE THAN 3 CURRENT CARRYING CONDUCTORS, AS REQUIRED BY THE DERATING GUIDELINES OF ARTICLE 310.15 IN THE 2017 NEC.
4. BRANCH CIRCUIT FEEDER WIRE AND CONDUIT SIZES ARE INDICATED ON PANEL SCHEDULES.
5. RESTROOM EXHAUST FANS SHALL BE CONTROLLED BY RESTROOM LIGHT SWITCH.
6. REFER TO MECHANICAL PLANS FOR EXACT LOCATIONS AND REQUIREMENTS OF MECHANICAL EQUIPMENT.
7. EMERGENCY LIGHTING CONNECTED AHEAD OF LOCAL SWITCH.
8. OWNER SHALL HAVE FINAL APPROVAL OF LIGHT FIXTURE SELECTION.
9. FIRE ALARM DESIGN BY OTHERS. CONTRACTOR SHALL PROVIDE AND SUBMIT FULL SET OF FIRE ALARM DRAWINGS, DESIGNED, SIGNED AND SEALED BY A FLORIDA LICENSED ENGINEER.
10. COORDINATE SIGN LIGHT LOCATION WITH OWNER/ARCHITECT.
11. EXTERIOR LIGHTING SHALL BE CONTROLLED BY PHOTOCELL.
12. CONTRACTOR SHALL ENGAGE THE MANUFACTURERS FACTORY-AUTHORIZED SERVICE REPRESENTATIVE TO INSPECT COMPONENTS AND FUNCTION OF LIGHTING CONTROL SYSTEM INSTALLED. REPRESENTATIVE SHALL BE RESPONSIBLE FOR THE FUNCTIONAL TESTING AND SHALL PROVIDE DOCUMENTATION TO THE CODE OFFICIAL CERTIFYING THAT THE INSTALLED LIGHTING CONTROLS MEET THE PROVISIONS OF THE 7TH EDITION OF THE FLORIDA BUILDING CODE ENERGY CONSERVATION SECTION C405 AND C408.3.1. REPRESENTATIVE SHALL BE INDEPENDENT FROM DESIGN OR CONSTRUCTION TEAM. APPROVED MANUFACTURERS ARE WATT STOPPER OR CRESTRON.
13. WITHIN 30 DAYS AFTER THE DATE OF SYSTEM ACCEPTANCE, RECORD DRAWINGS OF THE ACTUAL INSTALLATION SHALL BE PROVIDED TO THE BUILDING OWNER, INCLUDING A SINGLE LINE DIAGRAM OF THE BUILDING'S ELECTRICAL DISTRIBUTION, AS REQUIRED PER THE 7TH EDITION OF THE FLORIDA BUILDING CODE - ENERGY CONSERVATION C405.5.4.1.
14. AN OPERATING MANUAL AND MAINTENANCE MANUAL SHALL BE PROVIDED TO THE BUILDING OWNER, PER 7TH EDITION OF THE FLORIDA BUILDING CODE - ENERGY CONSERVATION C405.5.4.2.
    INCLUDE AT A MINIMUM THE FOLLOWING:
    a) SUBMITTAL DATA STATING EQUIPMENT RATING AND SELECTED OPTIONS FOR EACH PIECE OF EQUIPMENT REQUIRING MAINTENANCE.
    b) OPERATION MANUALS AND MAINTENANCE MANUALS FOR EACH PIECE OF EQUIPMENT REQUIRING MAINTENANCE. REQUIRED ROUTINE MAINTENANCE ACTIONS SHALL BE CLEARLY IDENTIFIED.
    c) NAMES AND ADDRESSES OF AT LEAST ONE QUALIFIED SERVICE AGENCY.
15. PROVIDE FAULT CURRENT MARKER PER NEC 110.24 AND ARC-FLASH DECALS PER NEC 110.16.
16. ALL LIGHTING SHALL BE CONTROLLED BY OCCUPANCY SENSORS, AS MANUFACTURED BY WATT STOPPER DLM SERIES OR EQUAL BY CRESTRON, UNLESS NOTED OTHERWISE. RESTROOMS SWITCHES SHALL BE 2-POLE (SINGLE BUTTON), EXHAUST FANS SHALL CONTINUE TO RUN 5 MIN (ADJUSTABLE) AFTER LIGHT SHUTS OFF. OCCUPANCY SENSORS TO BE DUAL TECHNOLOGY UNLESS NOTED OTHERWISE. CONTRACTOR SHALL CONSULT REPRESENTATIVE FOR TYPE AND PLACEMENT OF OCCUPANCY SENSORS AND PROVIDE SHOP DRAWINGS.
17. THIS PROJECT IS IN COMPLIANCE WITH 7TH EDITION FBC-EC C405.5.3 & NEC 210.19 WITH REGARDS TO VOLTAGE DROP FOR BOTH DISTRIBUTION PANEL & DOWNSTREAM BRANCH CIRCUITS.
18. CONTRACTOR SHALL CONFIRM AND COORDINATE ALL EQUIPMENT ELECTRICAL REQUIREMENTS WITH EQUIPMENT SUPPLIER, MECHANICAL CONTRACTOR, PLUMBING CONTRACTOR, ECT..
19. RECEPTACLE AND LIGHTING BRANCH CIRCUITS CONDUCTORS SHALL BE SIZED FOR A 3% MAXIMUM VOLTAGE DROP FROM THE SERVICE PANEL TO THE LOAD. CONDUCTOR SIZES SHALL BE UPGRADED BASED ON RUN LENGTH AS FOLLOWS:
    FEEDER LENGTH BELOW 56' #12 AWG
    FEEDER LENGTH BELOW 93' #10 AWG
    FEEDER LENGTH BELOW 144' #8 AWG
    FEEDER LENGTH BELOW 229' #6 AWG
    (20 AMP FEEDERS UPGRADED ABOVE #10AWG, SHALL BE DOWN SIZED TO #10AWG IN A JUNCTION BOX LOCATED WITHIN 8' OF DEVICE)
    INCREASE CONDUIT PER NEC AS REQUIRED.
    EQUIPMENT FEEDERS HAVE BEEN SIZED FOR A MAXIMUM 2% VOLTAGE DROP FROM MAIN SERVICE TO THE PANELS.
20. ALL EXPOSED METAL SURFACES IN PATIENT TREATMENT AREAS SHALL BE BONDED TO COMPLY WITH NEC 517. ALL ELECTRICAL INSTALLATIONS IN PATIENT TREATMENT AREAS SHALL BE IN ACCORDANCE WITH NEC 517. SPECIFIC EQUIPMENT CONNECTION REQUIREMENTS SHALL BE COORDINATED WITH OWNER AND IMPLEMENTED IN ACCORDANCE WITH NEC 517.
21. AFTER WALLS ARE FRAMED, MARK ALL OUTLET, DATA, SWITCH, ETC. LOCATIONS ON THE GROUND AND CONFIRM LOCATION AND MOUNTING HEIGHTS WITH OWNER PRIOR TO ANY CONDUIT, ETC. IS INSTALLED.

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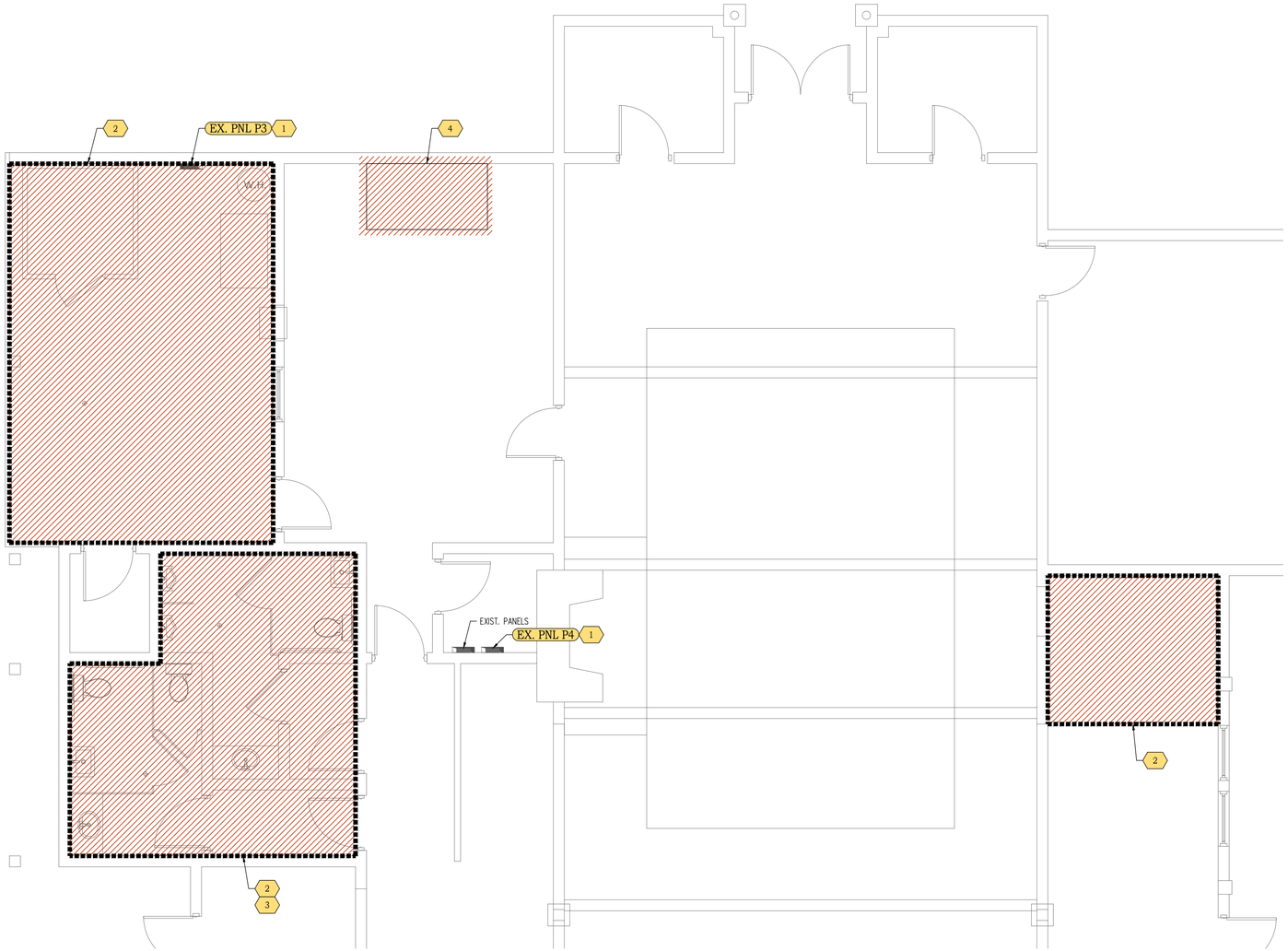
A NEW RENOVATION FOR:
COCOALA MUNICIPAL GOLF CLUB
OCALA, FLORIDA

project no. 2136

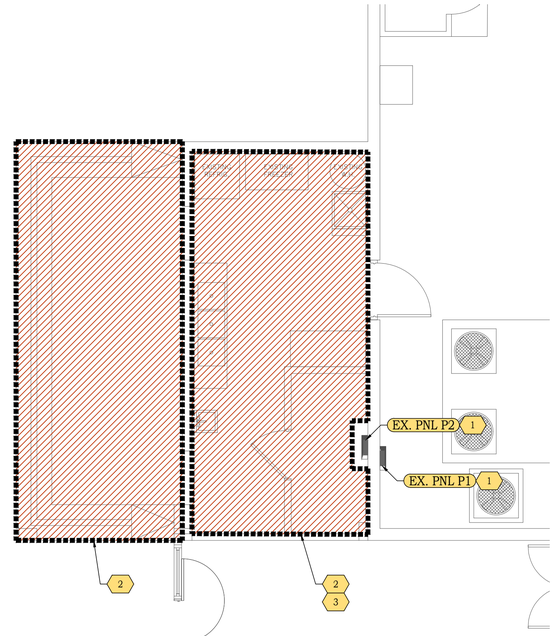
by	date
AJB	11.30.21

sheet no.
E-1

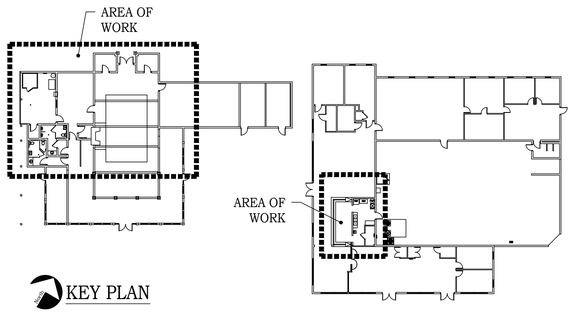
BID DOCUMENTS



ELECTRICAL DEMOLITION PLAN
WEST KITCHEN
1/4" = 1'-0"



ELECTRICAL DEMOLITION PLAN
1/4" = 1'-0"



KEY PLAN

PLAN NOTES

1. EXISTING PNL SHALL BE REPLACED WITH NEW 54 CKT PNL. NEW PANEL SHALL BE ONE FOR ONE REPLACEMENT. PROVIDE NEW CIRCUIT BREAKERS FRO EXISTING LOADS.
2. EXISTING LIGHTING WITHIN THIS AREA SHALL BE REMOVED AND REPLACED WITH NEW. PRESERVE LIGHTING CIRCUIT TO SERVE NEW FIXTURES.
3. EXISTING DEVICES WITHIN THIS AREA SHALL BE REMOVED. REMOVE ALL CONDUIT, WIRING, ETC., BACK TO SOURCE PANEL. MAINTAIN CONTINUITY TO DEVICES DOWNSTREAM THAT ARE TO REMAIN. RE-LABEL UNUSED CIRCUITS AS SPARE.
4. EXISTING HOOD SHALL BE REMOVED. REMOVE ALL ASSOCIATED DEVICES, CONDUITS, WIRING, ETC., BACK TO SOURCE PANEL. RE-LABEL UNUSED CIRCUIT AS SPARE.

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A NEW RENOVATION FOR:
CO OCALA MUNICIPAL GOLF CLUB
OCALA, FLORIDA

project no. 2136

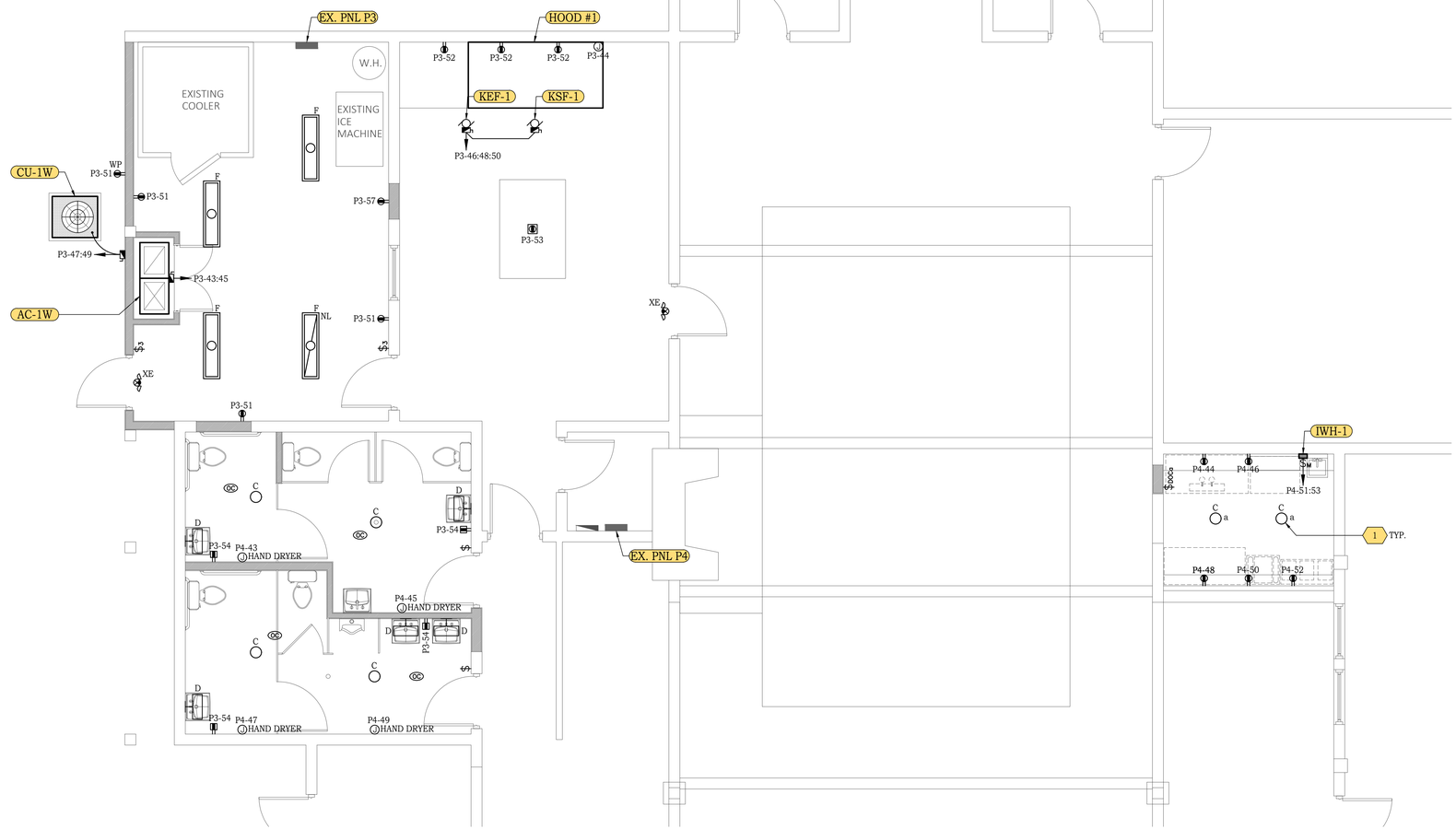
by	date
AJB/JJD	11.30.21

sheet no.
E-2

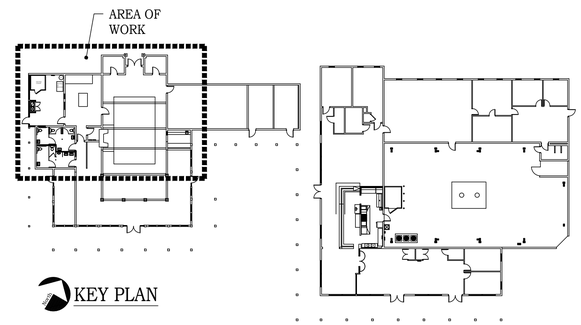
BID DOCUMENTS

PLAN NOTES

1. CONNECT NEW LIGHT FIXTURES TO EXISTING LIGHTING CIRCUIT. CONNECT USING (2) #12 AWG CU, (1) #12 AWG CU G, 1/2"C. PROVIDE NEW CONTROL SWITCHES AS SHOWN.



ELECTRICAL PLAN
WEST KITCHEN 1/4" = 1'-0"



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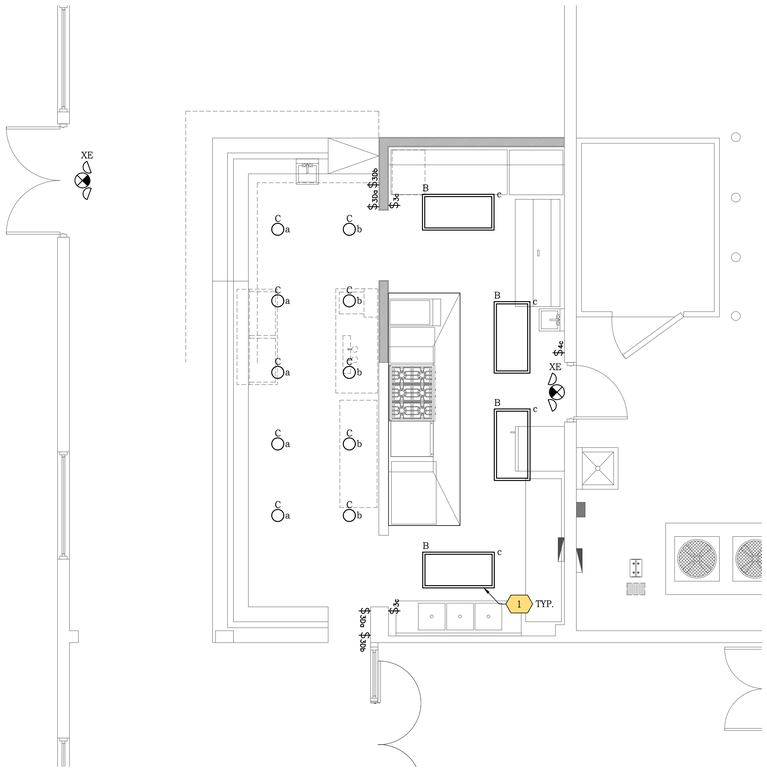
OCALA, FLORIDA

project no. 2136
by AJB/JJD
date 11.30.21
sheet no.
E-3

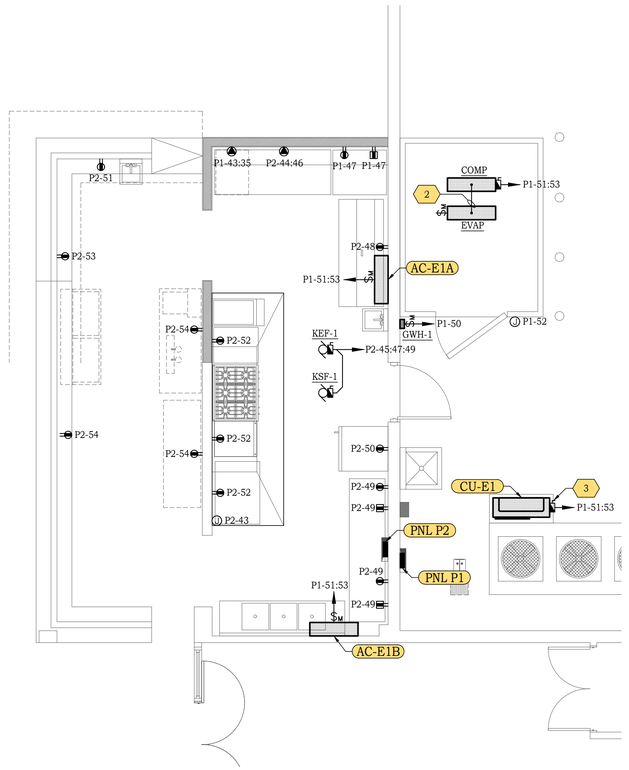
BID DOCUMENTS

PLAN NOTES

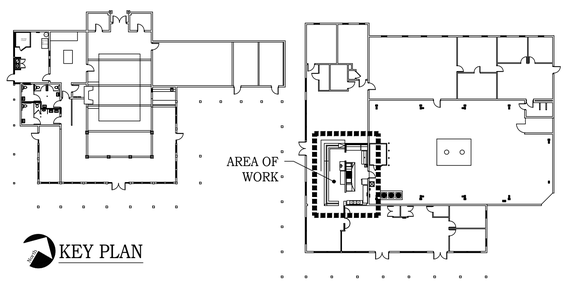
1. CONNECT NEW LIGHTING FIXTURES TO EXISTING LIGHTING CIRCUIT SERVICE SPACE. CONNECT USING (2) #12 AWG CU, (1) #12 AWG CU G, 3/4"C. PROVIDE NEW CONTROL SWITCHES AS SHOWN.
2. ROUTE TWO (2) 3/4" CONDUITS FROM COMPRESSOR TO EVAPORATOR. ONE (1) FOR CONTROLS AND ONE (1) FOR POWER.
3. ROUTE TWO (1) 3/4" CONDUITS FROM CU TO EACH AC UNIT. ONE (1) FOR CONTROLS AND ONE (1) FOR POWER



ELECTRICAL LIGHTING PLAN
EAST KITCHEN 1/4" = 1'-0"



ELECTRICAL POWER PLAN
EAST KITCHEN 1/4" = 1'-0"



KEY PLAN

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E-4

BID DOCUMENTS

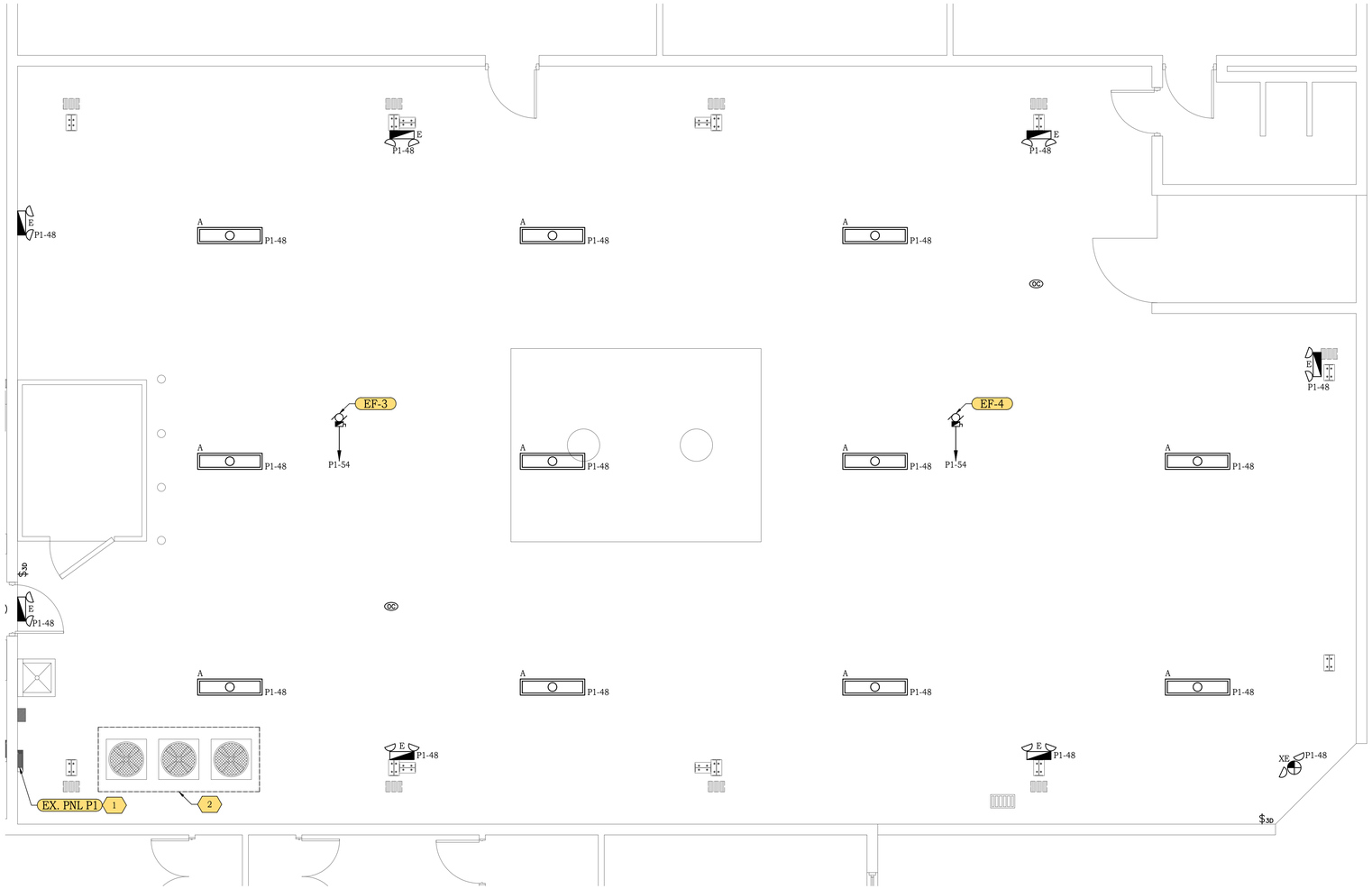
LIGHTING SCHEDULE

MARK	DESCRIPTION	LAMPS QTY.	LAMPS WATTS	LAMPS TYPE	DIFFUSER	MOUNTING	VOLTAGE	MANUFACTURER
A	HIGHBAY CANOPY LIGHTING		100	LED 4000K		SURFACE	UNV	WILLIAMS VG1-L65/740-T5-SM-BLK-DIM-UNV
B	2x4 LED FIXTURE		50	LED 3500K		RECESSED	UNV	WILLIAMS LP-24-L50/835-DIM-UNV
C	4" DOWNLIGHT		20	LED 3500K		RECESSED	UNV	WILLIAMS 4DR-TL-L20/835-DIM-UNV-OW-OF-CS-N-F1
D	WALL MOUNTED VANITY LIGHT		40	LED 3500K		WALL	UNV	OWNER/ARCHITECT SELECTED
E	EMERGENCY LIGHT WITH BACKUP		1.5	LED		WALL	UNV	BEGHELLI PEH-1
F	4' LED STRIP		50	LED 3500K		SURFACE	UNV	WILLIAMS 7SL-4-L50/835-AF12125-DIM-UNV
XE	COMBINATION EXIT/EMERGENCY LIGHT W/ BACKUP		5	LED		WALL/CEILING	UNV	BEGHELLI PCH-R-SA

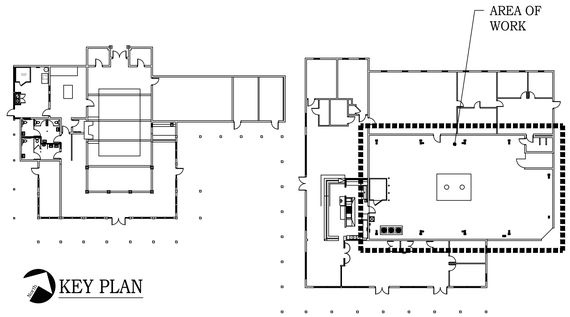
NOTES:
1. PROVIDE ALL EMERGENCY DEVICES WITH BATTERY BACKUP
2. EXIT SIGNS SHALL BE PROVIDE WITH ARROWS AS DIRECTED ON PLANS.
3. CONTRACTOR SHALL COORDINATE ALL RECESSED LIGHTING WITH CEILING TYPES AND PROVIDE DRYWALL KITS AS REQUIRED.
4. CONTRACTOR SHALL COORDINATE ALL EXTERIOR FIXTURE FINISHES WITH ARCHITECT/OWNER PRIOR TO PURCHASING.
5. ALL LIGHTING SHALL BE CONTROLLED BY WATTSTOPPER DLM SYSTEM OR EQUAL BY CRESTRON.

PLAN NOTES

1. EXISTING PNL SHALL BE REPLACED WITH NEW 54 CKT PNL. NEW PANEL SHALL BE ONE FOR ONE REPLACEMENT. PROVIDE NEW CIRCUIT BREAKERS FRO EXISTING LOADS.
2. EXISTING CONDENSER UNITS SHALL BE RELOCATED. EXTEND CONDUIT AND WIRING TO NEW LOCATION OR PROVIDE NEW AS REQUIRED. PROVIDE NEW DISCONNECTS. SEE MECHANICAL PLAN FOR NEW LOCATION.



ELECTRICAL PLAN
CART STORAGE 1/4" = 1'-0"



KEY PLAN

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A NEW RENOVATION FOR:
CO OCALA MUNICIPAL GOLF CLUB
OCALA, FLORIDA

project no. 2136
by AJB/JJD
date 11.30.21
sheet no. E-5

BID DOCUMENTS

PANEL: P1 (NEW)

PANEL TYPE:	SQ-D OR EQUAL	BUS AMP RATING:	***	VOLTAGE:	120/208	LUG LOCATION:	TOP OR BOTTOM
PANEL LOCATION:	EXISTING	MAIN AMP RATING:	***	PHASE:	3	MOUNTING:	***
FED FROM SOURCE:	EXISTING	MAIN TYPE:	***	WIRE:	4	AIC RATING:	***

CKT NO.	EQUIP NO.	TYPE	EQUIPMENT SERVED	NOTES	KVA	CKT. BKR. POLE/TR	BRANCH CKT				Ø	CKT NO.	EQUIP NO.	TYPE	EQUIPMENT SERVED	NOTES	KVA	CKT. BKR. POLE/TR	BRANCH CKT			
							Ø	N	GND	C									Ø	N	GND	C
1			EXISTING LOADS								A	2			EXISTING LOADS							
3			EXISTING LOADS								B	4			EXISTING LOADS							
5			EXISTING LOADS								C	6			EXISTING LOADS							
7			EXISTING LOADS								A	8			EXISTING LOADS							
9			EXISTING LOADS								B	10			EXISTING LOADS							
11			EXISTING LOADS								C	12			EXISTING LOADS							
13			EXISTING LOADS								A	14			EXISTING LOADS							
15			EXISTING LOADS								B	16			EXISTING LOADS							
17			EXISTING LOADS								C	18			EXISTING LOADS							
19			EXISTING LOADS								A	20			EXISTING LOADS							
21			EXISTING LOADS								B	22			EXISTING LOADS							
23			EXISTING LOADS								C	24			EXISTING LOADS							
25			EXISTING LOADS								A	26			EXISTING LOADS							
27			EXISTING LOADS								B	28			EXISTING LOADS							
29			EXISTING LOADS								C	30			EXISTING LOADS							
31			EXISTING LOADS								A	32			EXISTING LOADS							
33			EXISTING LOADS								B	34			EXISTING LOADS							
35			EXISTING LOADS								C	36			EXISTING LOADS							
37			EXISTING LOADS								A	38			EXISTING LOADS							
39			EXISTING LOADS								B	40			EXISTING LOADS							
41			EXISTING LOADS								C	42			EXISTING LOADS							
43		K	COOK/HOLD OVEN		4.80	2/30	10	-	10	3/4"	A	44		H	AC-E1A/AC-E1B/CU-E1	HACR	3.00	2/30	10	-	10	3/4"
45			⊥			⊥	10				B	46			⊥			⊥	10			
47		R	KITCHEN		.360	1/20	12	12	12	1/2"	C	48		H	LIGHTING CANOPY		1.10	1/20	12	12	12	1/2"
49		R	EF-4		.720	1/20	12	12	12	1/2"	A	50		H	GNH		.100	1/20	12	12	12	1/2"
51		H	WALK IN COMP/EVA		5.00	2/40	8	8	10	1"	B	52		H	WALK-IN CONTROL/LT		.100	1/20	12	12	12	1/2"
53			⊥			⊥	8				C	54		H	EF-3/EF-4		1.00	1/20	12	12	12	1/2"

EQUIPMENT SERVED	CONN. LOAD	LF	DF	DESIGN LOAD
EXISTING LOADS, DO NOT INCREASE				
TOTAL AMPS				

NOTES:
TC - WIRE THROUGH CONTACTOR
HACR - HACR TYPE BREAKER
LO - LOCKOUT BREAKER
GFCI - GND FAULT CURRENT INTERRUPT CIRCUIT BREAKER
IG - ISOLATED GROUND
WIF - WALK IN FREEZER
WIC - WALK IN COOLER

CONNECTION TYPE
R - RECEPTACLE
L - LIGHTING
H - HVAC/EWH
K - KITCHEN EQUIPMENT
M - MISC.

** PROVIDE NEW CIRCUIT BREAKERS TO MATCH EXISTING TO RE-FEED EXISTING LOADS. CONTRACTOR SHALL FIELD CONFIRM AND COORDINATE ALL CIRCUIT BREAKER SIZES. PROVIDE ONE FOR ONE REPLACEMENT.
**** AIC RATING OF NEW CIRCUIT BREAKERS SHALL MATCH OR EXCEED AIC RATING OF EXISTING CIRCUIT BREAKERS.

REMARKS:
- PROVIDE NEW GROUND BUS & NEUTRAL BUS.
- PROVIDE TYPE WRITTEN DIRECTORY.
- CONTRACTOR SHALL CONFIRM HVAC CIRCUIT BREAKER REQUIREMENTS BEFORE PURCHASING.
- HEAT/COOLING LOADS ARE MUTUALLY EXCLUSIVE.
- CONTRACTOR SHALL REMOVE EXISTING PANEL AND REPLACE WITH NEW 54 CIRCUIT PANEL OF EQUAL SIZE.
** MOUNTING SHALL MATCH EXISTING. CONTRACTOR SHALL FIELD COORDINATE.
** BUS RATING, MAIN AMP RATING, AND MAIN TYPE (MLO OR MCB), AND VOLTAGE/PHASE SHALL MATCH EXISTING. CONTRACTOR SHALL FIELD CONFRIM AND COORDINATE

PANEL: P2 (NEW)

PANEL TYPE:	SQ-D OR EQUAL	BUS AMP RATING:	***	VOLTAGE:	120/208	LUG LOCATION:	TOP OR BOTTOM
PANEL LOCATION:	EXISTING	MAIN AMP RATING:	***	PHASE:	3	MOUNTING:	***
FED FROM SOURCE:	EXISTING	MAIN TYPE:	***	WIRE:	4	AIC RATING:	***

CKT NO.	EQUIP NO.	TYPE	EQUIPMENT SERVED	NOTES	KVA	CKT. BKR. POLE/TR	BRANCH CKT				Ø	CKT NO.	EQUIP NO.	TYPE	EQUIPMENT SERVED	NOTES	KVA	CKT. BKR. POLE/TR	BRANCH CKT			
							Ø	N	GND	C									Ø	N	GND	C
1			EXISTING LOADS								A	2			EXISTING LOADS							
3			EXISTING LOADS								B	4			EXISTING LOADS							
5			EXISTING LOADS								C	6			EXISTING LOADS							
7			EXISTING LOADS								A	8			EXISTING LOADS							
9			EXISTING LOADS								B	10			EXISTING LOADS							
11			EXISTING LOADS								C	12			EXISTING LOADS							
13			EXISTING LOADS								A	14			EXISTING LOADS							
15			EXISTING LOADS								B	16			EXISTING LOADS							
17			EXISTING LOADS								C	18			EXISTING LOADS							
19			EXISTING LOADS								A	20			EXISTING LOADS							
21			EXISTING LOADS								B	22			EXISTING LOADS							
23			EXISTING LOADS								C	24			EXISTING LOADS							
25			EXISTING LOADS								A	26			EXISTING LOADS							
27			EXISTING LOADS								B	28			EXISTING LOADS							
29			EXISTING LOADS								C	30			EXISTING LOADS							
31			EXISTING LOADS								A	32			EXISTING LOADS							
33			EXISTING LOADS								B	34			EXISTING LOADS							
35			EXISTING LOADS								C	36			EXISTING LOADS							
37			EXISTING LOADS								A	38			EXISTING LOADS							
39			EXISTING LOADS								B	40			EXISTING LOADS							
41			EXISTING LOADS								C	42			EXISTING LOADS							
43		H	HOOD		.100	1/20	12	12	12	1/2"	A	44		K	REACH-RN		2.29	2/20	12	-	12	3/4"
45		H	KEF-1/KSF-1		3.71	3/20	12	-	12	3/4"	B	46			⊥			⊥	12			
47			│			│	12				C	48		K	PREP TABLE		.403	1/20	12	12	12	1/2"
49			⊥			⊥	12				A	50		K	REFRIGERATOR		.575	1/20	12	12	12	1/2"
51		R	BAR		.180	1/20	12	12	12	1/2"	B	52		R	UNDER HOOD	TC	.540	1/20	12	12	12	1/2"
53		R	BAR		.180	1/20	12	12	12	1/2"	C	54		K	BEER COOLER		.794	1/20	12	12	12	1/2"

EQUIPMENT SERVED	CONN. LOAD	LF	DF	DESIGN LOAD
EXISTING LOADS, DO NOT INCREASE				
TOTAL AMPS				

NOTES:
TC - WIRE THROUGH CONTACTOR
HACR - HACR TYPE BREAKER
LO - LOCKOUT BREAKER
GFCI - GND FAULT CURRENT INTERRUPT CIRCUIT BREAKER
IG - ISOLATED GROUND
WIF - WALK IN FREEZER
WIC - WALK IN COOLER

CONNECTION TYPE
R - RECEPTACLE
L - LIGHTING
H - HVAC/EWH
K - KITCHEN EQUIPMENT
M - MISC.

** PROVIDE NEW CIRCUIT BREAKERS TO MATCH EXISTING TO RE-FEED EXISTING LOADS. CONTRACTOR SHALL FIELD CONFIRM AND COORDINATE ALL CIRCUIT BREAKER SIZES. PROVIDE ONE FOR ONE REPLACEMENT.
**** AIC RATING OF NEW CIRCUIT BREAKERS SHALL MATCH OR EXCEED AIC RATING OF EXISTING CIRCUIT BREAKERS.

REMARKS:
- PROVIDE NEW GROUND BUS & NEUTRAL BUS.
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** BUS RATING, MAIN AMP RATING, AND MAIN TYPE (MLO OR MCB), AND VOLTAGE/PHASE SHALL MATCH EXISTING. CONTRACTOR SHALL FIELD CONFRIM AND COORDINATE

PANEL: P3 (NEW)

PANEL TYPE:	SQ-D OR EQUAL	BUS AMP RATING:	***	VOLTAGE:	120/208	LUG LOCATION:	TOP OR BOTTOM
PANEL LOCATION:	EXISTING	MAIN AMP RATING:	***	PHASE:	3	MOUNTING:	***
FED FROM SOURCE:	EXISTING	MAIN TYPE:	***	WIRE:	4	AIC RATING:	***

CKT NO.	EQUIP NO.	TYPE	EQUIPMENT SERVED	NOTES	KVA	CKT. BKR. POLE/TR	BRANCH CKT				Ø	CKT NO.	EQUIP NO.	TYPE	EQUIPMENT SERVED	NOTES	KVA	CKT. BKR. POLE/TR	BRANCH CKT			
							Ø	N	GND	C									Ø	N	GND	C
1			EXISTING LOADS								A	2			EXISTING LOADS							
3			EXISTING LOADS								B	4			EXISTING LOADS							
5			EXISTING LOADS								C	6			EXISTING LOADS							
7			EXISTING LOADS								A	8			EXISTING LOADS							
9			EXISTING LOADS								B	10			EXISTING LOADS							
11			EXISTING LOADS								C	12			EXISTING LOADS							
13			EXISTING LOADS								A	14			EXISTING LOADS							
15			EXISTING LOADS								B	16			EXISTING LOADS							
17			EXISTING LOADS								C	18			EXISTING LOADS							
19			EXISTING LOADS								A	20			EXISTING LOADS							
21			EXISTING LOADS								B	22			EXISTING LOADS							
23			EXISTING LOADS								C	24			EXISTING LOADS							
25			EXISTING LOADS								A	26			EXISTING LOADS							
27			EXISTING LOADS								B	28			EXISTING LOADS							
29			EXISTING LOADS								C	30			EXISTING LOADS							
31			EXISTING LOADS								A	32			EXISTING LOADS							
33			EXISTING LOADS								B	34			EXISTING LOADS							
35			EXISTING LOADS								C	36			EXISTING LOADS							
37			EXISTING LOADS								A	38			EXISTING LOADS							
39			EXISTING LOADS								B	40			EXISTING LOADS							
41			EXISTING LOADS								C	42			EXISTING LOADS							
43		H	AC-1W	HACR	10.0	2/60	6	-	10	1"	A	44		H	EF-3		.500	1/20	12	12	12	1/2"
45			⊥			⊥	6				B	46		H	KEF-2/KSF-2	HACR		2/20	12	-	12	3/4"
47		H	CU-1W	HACR	5.00	2/50	8	-	10	1"	C	48			│			│	12			
49			⊥			⊥	8				A	50			⊥			⊥	12			
51		R	STORAGE/EXTERIOR		.900	1/20	12	12	12	1/2"	B	52		R	UNDER HOOD	TC	.540	1/20	12	12	12	1/2"
53		R	KITCHEN		.180	1/20	12	12	12	1/2"	C	54		R	RESTROOMS		.720	1/20	12	12	12	1/2"

EQUIPMENT SERVED	CONN. LOAD	LF	DF	DESIGN LOAD
EXISTING LOADS, DO NOT INCREASE				
TOTAL AMPS				

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PANEL: P4 (NEW)

PANEL TYPE:	SQ-D OR EQUAL	BUS AMP RATING:	***	VOLTAGE:	120/208	LUG LOCATION:	TOP OR BOTTOM
PANEL LOCATION:	EXISTING	MAIN AMP RATING:	***	PHASE:	3	MOUNTING:	***
FED FROM SOURCE:	EXISTING	MAIN TYPE:	***	WIRE:	4	AIC RATING:	***

CKT NO.	EQUIP NO.	TYPE	EQUIPMENT SERVED	NOTES	KVA	CKT. BKR. POLE/TR	BRANCH CKT				Ø	CKT NO.	EQUIP NO.	TYPE	EQUIPMENT SERVED	NOTES	KVA	CKT. BKR. POLE/TR	BRANCH CKT			
							Ø	N	GND	C									Ø	N	GND	C
1			EXISTING LOADS								A	2			EXISTING LOADS							
3			EXISTING LOADS								B	4			EXISTING LOADS							
5			EXISTING LOADS								C	6			EXISTING LOADS							
7			EXISTING LOADS								A	8			EXISTING LOADS							
9			EXISTING LOADS								B	10			EXISTING LOADS							
11			EXISTING LOADS								C	12			EXISTING LOADS							
13			EXISTING LOADS								A	14			EXISTING LOADS							
15			EXISTING LOADS								B	16			EXISTING LOADS							
17			EXISTING LOADS								C	18			EXISTING LOADS							
19			EXISTING LOADS								A	20			EXISTING LOADS							
21			EXISTING LOADS								B	22			EXISTING LOADS							
23			EXISTING LOADS								C	24			EXISTING LOADS							
25			EXISTING LOADS								A	26			EXISTING LOADS							
27			EXISTING LOADS								B	28			EXISTING LOADS							
29			EXISTING LOADS								C	30			EXISTING LOADS							
31			EXISTING LOADS								A	32			EXISTING LOADS							
33			EXISTING LOADS								B	34			EXISTING LOADS							
35			EXISTING LOADS								C	36			EXISTING LOADS							
37			EXISTING LOADS								A	38			EXISTING LOADS							
39			EXISTING LOADS								B	40			EXISTING LOADS							
41			EXISTING LOADS								C	42			EXISTING LOADS							
43		R	HAND DRYER		1.50	1/20	12	12	12	1/2"	A	44		R	BAR EQUIPMENT		1.00	1/20	12	12	12	1/2"
45		R	HAND DRYER		1.50	1/20	12	12	12	1/2"	B	46		R	BAR EQUIPMENT		1.00	1/20	12	12	12	1/2"
47		R	HAND DRYER		1.50	1/20	12	12	12	1/2"	C	48		R	BAR EQUIPMENT		1.00	1/20	12	12	12	1/2"
49		R	HAND DRYER		1.50	1/20	12	12	12	1/2"	A	50		R	BAR EQUIPMENT		1.00	1/20	12	12	12	1/2"
51		H	EWH		3.00	2/30	10	-	10	3/4"	B	52		R	BAR EQUIPMENT		1.00	1/20	12	12	12	1/2"
53			⊥			⊥	10				C	54										

EQUIPMENT SERVED	CONN. LOAD	LF	DF	DESIGN LOAD
EXISTING LOADS, DO NOT INCREASE				
TOTAL AMPS				

NOTES:
TC - WIRE THROUGH CONTACTOR
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A NEW RENOVATION FOR:
CO OCALA MUNICIPAL GOLF CLUB
OCALA, FLORIDA

project no. 2136
by JJD
date 11.30.21
sheet no.
E-6

BID DOCUMENTS