# **GEORGE WASHINGTON CARVER** FOOD ENTERPRISE CENTER - PHASE 1

# NOTICE TO CONTRACTOR & ALL TRADES

ALL TRADES SHALL BE RESPONSIBLE FOR THE CONTENTS CONTAINED HEREIN, AND FOR THE INFORMATION REPRESENTED ON ALL SHEETS. THESE CONSTRUCTION DOCUMENTS HAVE BEEN PRODUCED WITH THE INTENTION OF BEING USED AS A SINGULAR TOOL FOR THE CONSTRUCTION OF THIS PROJECT. NO SINGLE DRAWING WILL STAND ALONE, AND AT NO TIME WILL THE ARCHITECT OR OWNER BE RESPONSIBLE FOR ACTIONS TAKEN BY A CONTRACTOR OR SUBCONTRACTOR WHO HAS NOT REVIEWED, AND IS NOT IN POSSESSION OF A FULL WORKING SET OF DOCUMENTS. BE ADVISED, THERE MAY BE NOTES ON A DRAWING FOR ONE SPECIFIC TRADE THAT WILL PERTAIN TO THE WORK OF OTHER TRADES. GENERAL CONTRACTOR IS RESPONSIBLE FOR THE CLEAR COMMUNICATION BETWEEN ALL TRADES, AND THAT ALL WORKERS HAVE ADEQUATELY REVIEWED ALL DRAWINGS AND LOCATED ALL WORK THAT WOULD FALL UNDER THEIR RESPONSIBILITY.

AN APPROVED SET OF DRAWINGS BY EACH TRADE SHALL BE OBTAINED FROM THE AHJ BEFORE WORK CAN COMMENCE FOR THAT TRADE.

## GENERAL NOTES

BUILDING PERMIT BY GENERAL CONTRACTOR.

CONTRACTOR SHALL BE RESPONSIBLE FOR ALL TEMPORARY SHORING, BRACING & WEATHER PROTECTION.

CONTRACTOR SHALL BE RESPONSIBLE FOR ALL PROTECTION AND BARRICADING OF PUBLIC AREAS AND NEIGHBORING PROPERTIES

CONTRACTOR SHALL COMPLY WITH ALL PERTINENT RULES, REGULATIONS, ORDINANCES, AND LAWS MANDATED BY LOCAL, STATE, AND FEDERAL AGENCIES.

PRIOR TO CONSTRUCTION, EXAMINE ALL PROJECT SPECIFICATIONS, DRAWINGS, AND VISIT THE SITE TO DEVELOP A COMPLETE UNDERSTANDING OF THE PROJECT SCOPE. FAILURE TO DO SO SHALL NOT RELIEVE THE CONTRACTOR OF HIS RESPONSIBILITY TO PERFORM ALL WORK REQUIRED FOR A COMPLETE INSTALLATION. UPON REVIEW OF THESE DOCUMENTS, ADVISE THE ARCHITECT IN A TIMELY MANNER OF ANY DISCREPANCIES WHICH WILL EFFECT THE WORK REQUIRED SO THAT THE ARCHITECT MAY PROVIDE DIRECTION PRIOR TO BEGINNING AFFECTED WORK.

EACH INDIVIDUAL TRADE IS RESPONSIBLE FOR THE DAILY CLEAN UP OF THEIR WORK AREA AND GENERAL CLEAN UP OF THE JOBSITE.

GENERAL CONTRACTOR SHALL SUBMIT LEGIBLE COPIES OF EACH INDIVIDUAL TRADE PERMIT TO OWNER AND HAVE APPROVED DRAWINGS FOR EACH SUB-CONTRACTOR PRIOR TO THE SUB-CONTRACTOR STARTING WORK ON THE SITE.

### **CODE INFORMATION** 2018 VEBC

HEIGHT & AREA LIMITATION (ALLOWABLE/ACTUAL): NO CHANGE IS PROPOSED TO BUILDING HEIGHT OR AREA

### TOTAL BUILDING AREA (FOOTPRINT): 33,584 SF APPROX. REMODELED AREA: 7,487 SF

103.2 NEW CERTIFICATE OF OCCUPANCY REQUIRED FOR CHANGE OF OCCUPANCY

CHAPTER 3 302.1 DETERMINE OCCUPANCY AND USE BY VCC

ORIGINAL USE

- A-1 EXISTING ASSEMBLY LEASE CHURCH USE
- EXISTING OFFICE USE EXISTING STORAGE S-1
- F-1 NEW COMMERCIAL KITCHEN USE (WORK AREA 1)

WORK AREA OCCUPANCY: 49 TOTAL (SEE FLOOR PLANS FOR INDIVIDUAL SPACE OCCUPANCY

NON-SEPARATED USES IN BUILDING OUTSIDE WORK AREA NEW WORK AREA SEPARATED W/ (1) HOUR RATING

CONSTRUCTION TYPE: IIB NON-COMBUSTIBLE

CHAPTER 4 ACCESSIBILITY: COMPLY WITH VCC CHAPTER 11 EXCEPT AS MODIFIED

PROVIDE ACCESSIBLE ROUTE TO PRIMARY 404.3 FUNCTION AREAS.

**REPAIRS COMPLY W/ CHAPTER 5** 

THIS WORK INCLUDES LEVEL 1 & 2 ALTERATIONS.

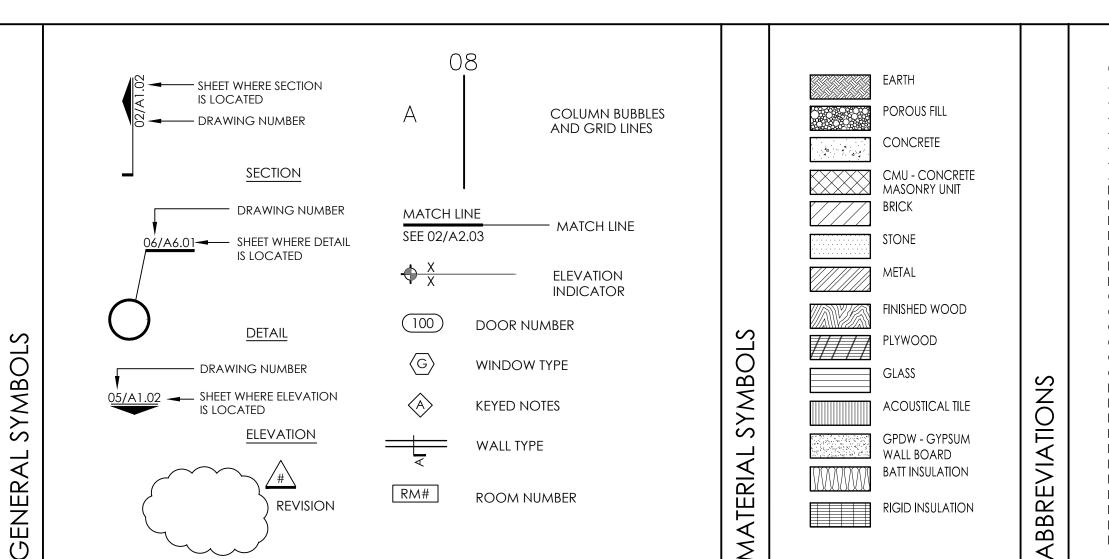
1.4	CONFORM TO THE IECC W/ EXCEPTIONS
2.3.1	NEW INTERIOR FINISHES SHALL COMPLY WITH
	CHAPTER 8 OF THE VCC
3.3	NEW CONSTRUCTION WITHIN THE WORK AREA
	SHALL COMPLY WITH THE VCC.

STORY OCCUPANCY LOAD NOT INCREASE BY 603.6 MORE THAN 20%. EXISTING BUILDING TOILETS TO BE USED IN PHASE 1

706.2 706.4 707.1 708.4 709.1 710.1

711

WORK INCLUDES DEMOLITION OF PORTIONS OF THE EXISTING INTERIOR WALLS, MODIFICATIONS TO EXISTING EXTERIOR OPENINGS & PARTIAL BUILD-OUT FOR NEW COMMERCIAL KITCHEN SPACE WITH ASSOCIATED STORAGE. A NEW ACCESSIBLE ENTRANCE WILL BE ADDED AND AN EXISTING EXIT WILL BE MODIFIED. ACCESSIBLE TOILET FACILITIES WILL BE PROVIDED IN A FUTURE PHASE.



# CULPEPER COUNTY, VIRGINIA

CODE INFORMATION (CONTINUED)

- INTERIOR FINISH: COMPLY W/ VCC FIRE SPRINKLER SYSTEM [NR] F-1 FIRE AREA < 12.000 SF
- FIRE ALARM [NR] HAZARD CATEGORY 4 (NO CHANGE OR REDUCED)
- MEANS OF EGRESS MEET VCC CHAPTER 10 EGRESS 705.4
  - CAPACITY HEIGHT & AREA HAZARD CATEGORY 3 (NO CHANGE) EXISTING HEIGHT & AREA ACCEPTABLE EXTERIOR WALL HAZARD CATEGORY 2 (NO CHANGE) LIGHTING: COMPLY W/ VCC IN WORK AREA
  - MECHANICAL: COMPLY W/ VCC IN WORK AREA PLUMBING: COMPLY W/ VCC IN WORK AREA STRUCTURAL: NO INCREASE IN HAZARD / CHANGE IN EXISTING LOADS REQUIRED

SEE PLANS FOR NEW STRUCTURAL ALTERATIONS

### SUMMARY OF WORK

THIS WORK WILL BE PERFORMED IN ONE PHASE IN ONE WORK AREA. NO CHANGES ARE PROPOSED TO THE REMAINDER OF THE BUILDING USE OR OCCUPANCY.

SEE PLANS FOR PROPOSED STRUCTURAL MODIFICATIONS.

### MEP COORDINATION NOTE

PLUMBING, ELECTRICAL, FIRE ALARM & HVAC SYSTEMS ARE TO BE CONSTRUCTED AS COMPLETE, COORDINATED SYSTEMS. AS A MINIMUM THEY SHALL MEET APPLICABLE BUILDING AND LIFE SAFETY CODES UNDER VA USBC 2018 & ANSI A117,1-2009, EACH SYSTEM INSTALLER MUST COORDINATE WITH THE GENERAL CONTRACTOR, KITCHEN EQUIPMENT BY OTHERS AND OTHER PROJECT SUB-CONTRACTORS.

FIRE ALARM NOTE:

FIRE ALARM IS NOT REQUIRED OR PROVIDED IN PHASE 1

# **BID ALTERNATES**

ADD ALTERNATE #1: NEW EXTERIOR WINDOWS & FINISH WORK IN SPACES 102, 102A & 102B. SEE PLANS

ADD ALTERNATE #2: NOT USED

ADD ALTERNATE #3: ELECTRICAL FEEDER EXTENSION - RISER DIAGRAM NOTE SHEET E1.1

# WORK BY OTHERS

### (BASE BID)

- DATA CABLING, TELEPHONE, SECURITY, CARD
- READERS & IT RACKS (SEE PLANS FOR CONDUIT W/ PULL STRING & EMPTY BOXES) FURNITURE NOT INDICATED IN CONTRACT 2.
- DOCUMENTS
- ITEMS SPECIFICALLY IDENTIFIED AS "BY OTHERS" OR N.I.C.
- EXTERIOR AND INTERIOR SIGNAGE EXCEPT AS 4
- INDICATED. LOCKSET CORES (SARGENT 11 LINE XC KEYING 5.
- APPLIANCES & KITCHEN EQUIPMENT NOT 6.
- SPECIFICALLY IDENTIFIED FIRE ALARM - FUTURE 7.

SYSTEM)

# **PROJECT CONTACTS** OWNER

COUNTY OF CULPEPER, VIRGINIA PAUL HOWARD 540.727.3409

# **TENANT / PROJECT MANAGER**

GEORGE WASHINGTON CARVER AGRICULTURE RESEARCH CENTER **REBECCA SHEFFIELD GARTNER** 540.727.3435 EXT. 344

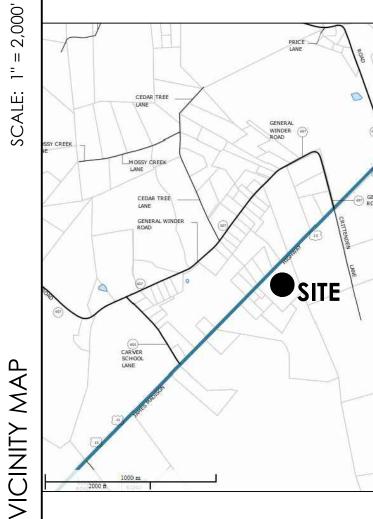
### ARCHITECT

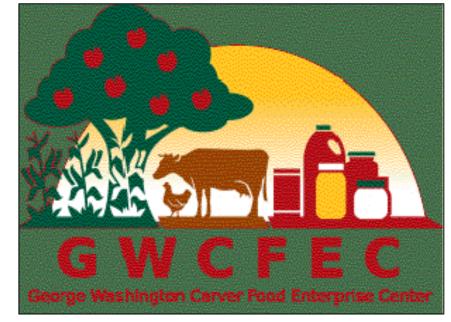
SANDERS ARCHITECTURE, PC DEX SANDERS 540.829.2590

### **MEP ENGINEER**

MEI ENGINEERING, INC. WESLEY SEIVER 540.432.6272 EXT. 107

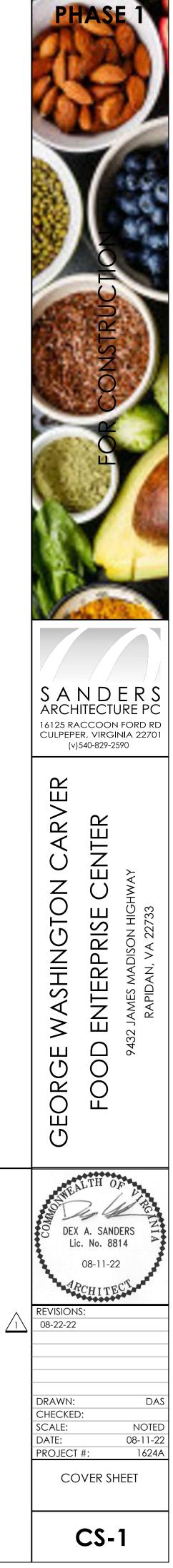
@ ABV. A.C.T. A.J. ALT. ALUM. ARCH. B.F.F. BSMT BLK'G B.O. BOT. BD BLDG. C.T. CLG. CLO. CMU CONC. CONST DBL DWG DTL. EX. E.C. ELEV. EQ. EXP. EXT.	AT ABOVE ACOUSTICAL CEILING TILE ABOVE FINISHED FLOOR ADJUSTABLE ALTERNATE ALUMINUM ARCHITECTURAL BELOW FINISHED FLOOR BASEMENT BLOCKING BOTTOM OF BOTTOM BOARD BUILDING CERAMIC TILE CEILING CLOSET CONCRETE MASONRY UNIT CONCRETE CONSTRUCTION DOUBLE DRAWING DETAIL EXISTING ELECTRICAL CONTRACTOR ELECTRICAL ELEVATION EQUIVALENT EXPANSION EXTERIOR	F.F. BRD. FLR. FND. FRMG. FT. FTG. G.C. GPDW GA. GALV. HVAC HW HDR. HGT. HORIZ. INSUL. INT. JAN. JT. L.F. MANUF. MAX. MECH. MIN. MTL. O.C. PTD	FINISHED FLOOR FINISH FLOOR FOUNDATION FRAMING FOOT/FEET FOOTING GENERAL CONTRACTOR GYPSUM WALLBOARD GAUGE GALVANIZED HEATING, VENTILATION & AIR CONDITIONING HARDWARE HEADER HEIGHT HORIZANTAL INSULATION INTERIOR JANITOR JOINT LINEAR FOOT MECHANICAL CONTRACTOR MOISTURE RESISTANT BOARD MANUFACTURED MAXIMUN MECHANICAL MINIMUM METAL ON CENTER PAINTED	P.C. PSF PSI P.T. PERIM. PLUMB. R.O. RWC REINF. REQ. RESP. RET. RM S.F. S.S.R SCHED. STD. STD. STD. STD. STD. STD. STD. ST	PLUMBING CONTRACTOR PER SQUARE FOOT PER SQUARE INCH PRESSURE TREATED PERIMETER PLUMBING ROUGH OPENING RAIN WATER CONDUCTOR REINFORCED REQUIRED RESPONSIBLE RETURN ROOM SQUARE FEET STANDING SEAM ROOF SCHEDULE STANDARD STEEL STORAGE TONGUE & GROOVE TEMPORARY TOP OF TYPICAL UNDERGROUND UNLESS NOTED OTHERWISE VINYL WALLCOVERING VERTICAL VINYL COMPOSITE TILE WITH WITHOUT WELDED WIRE FABRIC	1111111111 (1) 100 SCALE: 1" = 2,000	SSY CREEK HE HE CEDAR CANE CEDAR CANE CEDAR CANE CEDAR CANE CEDAR CANE CEDAR CANE CEDAR CANE CEDAR CANE CEDAR CANE CEDAR CEDAR CANE CEDAR CANE CEDAR CEDAR CANE CEDAR CENAR CEDAR CE
EXT. F.G.	exterior Fiberglass	PTD PL	PAINTED PLATE	W.W.F. WD.	WELDED WIRE FABRIC WOOD	ΙŲ	





# PHASE 1

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line out on our of the out of the	CS.1 CS.2	COVER SHEET PROJECT SPECIFICATIONS	DEX A. SANDERS Lic. No. 8814
CONTENTS AND	A1.1 A2.1 A2.2 A3.1 A4.1 A5.1 A8.1 A10.1	OVERALL FLOOR PLAN ENLARGED FLOOR PLAN EAST ENLARGED FLOOR PLAN WEST ROOF PLAN / WINDOW DETAILS EXTERIOR VIEWS SECTIONS, DETAILS DOOR SCHEDULE LOWER LEVEL REFLECTED CEILING PLAN	08-11-22 REVISIONS: 08-22-22
INSKEEP INSKEEP BRANDYWINE ROAD	M0.1 M1.1 E0.1 E0.2 E0.3 E1.1 E2.1 P0.1 P0.2 P1.1 P2.1	HVAC SPECIFICATIONS HVAC PLAN & SCHEDULES ELECTRICAL SPECIFICATIONS ELECTRICAL SCHEDULES AND RISERS ELECTRICAL PANEL SCHEDULES POWER PLAN LIGHTING PLAN PLUMBING SPECS & SCHEDULES PLUMBING DETAILS SANITARY PLAN & RISERS WATER / GAS PLAN & RISERS	DRAWN: DAS CHECKED: SCALE: NOTED DATE: 08-11-22 PROJECT #: 1624A COVER SHEET <b>CS-1</b>



### **PROJECT SPECIFICATIONS**

### GENERAL NOTES:

. ALL ITEMS & SYSTEMS TO BE INSTALLED AS RECOMMENDED BY THE MANUFACTURER AND IN CONFORMANCE WITH APPLICABLE BUILDING CODES, LAWS AND REGULATIONS.

2. UNLESS "NO SUBSTITUTIONS" IS SPECIFICALLY INDICATED, IT IS NOT THE INTENT OF THESE SPECIFICATIONS TO EXCLUDE MANUFACTURERS THAT PRODUCE EQUAL PRODUCTS OR SYSTEMS. CONTRACTOR IS ENCOURAGED TO SUBMIT ALTERNATE PRODUCT OR SYSTEM MANUFACTURERS FOR CONSIDERATION BY ARCHITECT PRIOR TO ORDER (SEE PM SECTION 01600).

3. CONTRACTOR SHALL DAILY REMOVE ALL DEBRIS FROM SITE AND KEEP WORK AREA CLEAN. REMOVE EXCESS MATERIALS FROM SITE.

4. SEE THE PROJECT MANUAL FOR ADDITIONAL SPECIFICATIONS AND INFORMATION.

5. FOLLOWING CONTRACT AWARD, SUBMIT PROPOSED COLOR CHARTS & SAMPLES FOR ALL REQUIRED COLOR SELECTIONS TO ARCHITECT / TENANT FOR SELECTION & SCHEDULE. MANUFACTURER'S PRINTED COLOR CHARTS FOR PAINTED ITEMS OR PHYSICAL SAMPLES ARE REQUIRED. PAGES PRINTED FROM WEBSITES OR LINKS TO WEBSITES ARE NOT ACCEPTABLE.

6. SUBMITTAL INFORMATION REQUIRED FOR ALL SECTIONS NOTED THUS \*\*. EXCEPT FOR SAMPLES, CONTRACTOR IS ENCOURAGED TO FURNISH SUBMITTALS IN PDF FORMAT.

7. CONTRACTOR SHALL MAKE APPLICATION AND OBTAIN ALL PERMITS REQUIRED FOR THE EXECUTION OF THIS WORK. U.N.O. ALL PERMIT FEES WILL BE PAID BY THE CONTRACTOR. SPECIAL INSPECTIONS REQUIRED BY THE CODE SHALL BE PAID FOR BY THE OWNER. THE OWNER WILL PAY FOR ALL OTHER QUALITY CONTROL INSPECTIONS AS WELL AS ELECTRIC & GAS UTILITY CONNECTION FEES & TELEPHONE & DATA SERVICE. CONTRACTOR SHALL COORDINATE WITH SERVICES PROVIDED BY OTHERS.

### 02000 - SITE WORK

1. EXCEPT FOR MATERIALS TO BE RE-USED ON SITE SUCH AS TOPSOIL, CLEARED MATERIALS SHALL BECOME CONTRACTOR'S PROPERTY AND SHALL BE REMOVED FROM THE SITE OR RELOCATED ON SITE TO AN AREA ACCEPTABLE TO THE OWNER. CONTRACTOR SHALL PROVIDE ADDITIONAL SOIL AND FILL MATERIAL AS NECESSARY TO COMPLETE THE WORK.

2. DO NOT OBSTRUCT EXISTING STREETS, PARKING OR TRAVELWAYS WITHOUT OBTAINING PRIOR PERMISSION FROM THE OWNER. MAINTAIN EXISTING USE OF SITE AND REQUIRED EXITS. 3. PROTECT ALL EXISTING SITE IMPROVEMENTS TO REMAIN DURING CONSTRUCTION. RESTORE DAMAGED IMPROVEMENTS TO THEIR ORIGINAL CONDITION AS ACCEPTABLE TO THE OWNER. THIS SHALL INCLUDE EXISTING PAVING, STRUCTURES AND UTILITY SERVICES.

4. REPLACE ALL EXISTING TREES SCHEDULED TO REMAIN THAT ARE DAMAGED DURING CONSTRUCTION. 5. DO NOT INTERRUPT EXISTING UTILITIES SERVING FACILITIES OCCUPIED BY THE OWNER WITHOUT PRIOR WRITTEN PERMISSION. CONTRACTOR MUST FURNISH TEMPORARY UTILITY SERVICES IF SERVICE IS INTERRUPTED TO ANY OCCUPIED AREAS - UNLESS DURING SCHEDULED AND APPROVED SERVICE INTERRUPTION.

6. SUBGRADE BACK FILL SOILS SHALL BE CLEAN AND FREE FROM CLAY & SILTY SOILS AND ROCKS LARGER THAN 3" IN ANY DIMENSION, FROZEN MATERIALS, VEGETATION, WASTE AND OTHER DELETERIOUS MATTER. 7. STRUCTURAL FILL AND DRAINAGE FILL TO BE #57 STONE.

8. WITH PRIOR PERMISSION, EXCESS FILL MAY BE SPREAD AND SEEDED ON SITE IN A LOCATION AS ALLOWED AND DIRECTED BY OWNER.

9. BEDDING FILL TO BE CRUSHED STONE OR GRAVEL WITH 100% PASSING A 1-INCH SIEVE. 10. PROVIDE DETECTABLE WARNING TAPE WITH METAL CORE INSCRIBED WITH DESCRIPTION OF THE UTILITY 1'-0" MINIMUM ABOVE ALL UNDERGROUND UTILITIES.

11. PROVIDE ALL EROSION AND SEDIMENT CONTROL MEASURES REQUIRED BY THE COUNTY AND STATE. 12. EXCAVATE TO SUBGRADE ELEVATIONS REGARDLESS OF THE CHARACTER OF SURFACE OR SUBSURFACE CONDITIONS ENCOUNTERED INCLUDING ROCK, SOIL MATERIALS OR OTHER OBSTRUCTIONS. IF EXCAVATED MATERIALS INTENDED FOR BACKFILL INCLUDE UNSATISFACTORY SOIL MATERIALS AND ROCK - REPLACE WITH SATISFACTORY MATERIALS.

13. EXCAVATE TRENCHES 6 INCHES DEEPER THAN BOTTOM OF PIPE IN ROCK AND 4 INCHES DEEPER ELSEWHERE TO ALLOW FOR BEDDING COURSE. 14. RE-CONSTRUCT SUBGRADES DAMAGED BY FREEZING TEMPERATURES OR WATER, ETC.

15. COMPACTION: PLACE FILL MATERIALS IN LAYERS NOT MORE THAN 8 INCHES AND COMPACT AS FOLLOWS OR AS DIRECTED BY THE GEOTECHNICAL ENGINEER:

UNDER STRUCTURES - ENGINEERED FILL COMPACTED TO 95% MAXIMUM DRY DENSITY AT OPTIMUM MOISTURE (ASTM D-698) UNDER WALKS & PAVEMENTS - 95%

### UNDER LAWNS - 85%

16. OWNER MAY ENGAGE AN INDEPENDENT GEOTECHNICAL TESTING AGENCY TO TEST AND INSPECT EACH LAYER OF SUBGRADE FILL. WHEN REPORTS INDICATE THAT THE SPECIFIED DEGREE OF COMPACTION IS NOT ACHIEVED, RECOMPACT AND RETEST UNTIL COMPACTION IS ACHIEVED. 17. WHERE SETTLING OCCURS, REMOVE FINISHED SURFACE AND REPAIR TO NEW CONDITION.

18. A SOILS REPORT IS NOT INCLUDED IN THE PROJECT MANUAL DUE TO LIMITED SITE WORK. 19. CONTRACTOR IS RESPONSIBLE FOR ALL SURVEY, BENCHMARKS AND STAKEOUT REQUIRED FOR THIS PROJECT.

02500 - BUILDLING UTILITIES

1. CONTRACTOR SHALL EXTEND AND COMPLETE BUILDING UTITLITY SERVICES IN COORDINATION WITH WORK PERFORMED BY OTHERS. 2. PROTECT ALL EXIST. SERVICES IN PLACE.

3. CONTRACTOR SHALL CAREFULY EXAMINE THE SITE TO DETERMINE EXISTING CONDITIONS AND FULL EXTENT OF WORK REQUIRED TO EXTEND ALL UTILITIES TO BUILDING. UTILITY COSTS & PERMIT FEES NOT SPECIFICALLY EXCLUDED ARE A PART OF THIS WORK

4. AT PRE-CONSTRUCTION MEETING, CONTRACTOR SHALL PRESENT THE OWNER WITH A SCHEDULE FOR HAVING THE OWNER PROVIDED UTILITIES COMPLETE. 5. CONTRACTOR SHALL PROVIDE AND PAY FOR ANY TEMPORARY UTILITY SERVICES REQUIRED FOR CONSTRUCTION PRIOR TO FINAL UTILITY INSTALLATION (I.E. TEMP. H20 & ELEC.).

### 02361 - TERMITE CONTROL (NOT USED)

02800 - LANDSCAPING

1. LANDSCAPING SHALL BE LIMITED TO RE-SEEDING EXISTING LAWN AREAS DISTURBED BY EXCAVATION. 2. PROVIDE CLEAN TOPSOIL IF NEEDED.

2. ALL LAWN AREAS SHALL BE WARRANTED FOR (1) YEAR FROM THE DATE OF SUBSTANTIAL COMPLETION.

### **SPECIFICATIONS (CONT.)**

03300 CAST-IN-PLACE CONCRETE \*\*

1. FLOOR SLABS & FOOTINGS - 3,500 PSI, MAX SLUMP 4". ALL CONCRETE EXPOSED TO EXTERIOR TO BE AIR ENTRAINED 4.5% TO 6%. 2. CONCRETE WORK SHALL CONFORM TO THE CURRENT VERSION OF:

ACI 301 - SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS

ACI 302 - RECOMMENDED PRACTICE FOR CONCRETE FLOOR & SLAB CONSTRUCTION ASTM E1155 - STANDARD TEST FOR FLOOR FLATNESS AND LEVELNESS

LOCATION DOES NOT EXCEED 1/8".

3. PROVIDE STANDARD BAR CHAIRS AND SPACERS AS REQUIRED FOR 3" COVER AT FOUNDATIONS AND 2" COVER AT FORMED WALLS AND ELEVATED SLABS. 4. CONTRACTOR SHALL CAREFULLY MONITOR CONCRETE PLACEMENT ACTIVITIES TO MINIMIZE SPILLAGE & CLEAN BOTH INTERIOR AND EXTERIOR AREAS WHERE CONCRETE SPLATTERS OR DRIPS . 5. NO DUMPING OF EXCESS CONCRETE OR TRUCK CLEAN UP TO OCCUR ON SITE UNLESS APPROVED IN

ADVANCE BY OWNER.

TO BE 48 BAR DIAMETERS.

7. WATERSTOPS: RUBBER OR PVC

9. JOINT FILLER STRIPS: ASPHALT-SATUARATED CELLULOSIC FIBER.

04200 UNIT MASONRY \*\*

2. CONSTRUCT IN RUNNING BOND PATTERN EXCEPT WHERE INDICATED OTHERWISE. 3. GROUT: 2,000 PSI AT 28 DAYS, SAND MIX, ASTM C476.

4. MORTAR: CEMENT LIME, TYPE S 5. PROVIDE HORIZONTAL DURO-WALL WIRE REINFORCING AT 16" OC VERT. (TYP) AT ALL MASONRY ZIIAW

BEAMS, HEADERS OR LINTELS. 7. PROVIDE #5 BARS VERTICAL AT 48" OC U.N.O. 8. FOR FIRE RATED WALLS, PROVIDE MATERIALS COMPATIBLE WITH TESTED ASSEMBLY.

9. PROTECT MASONRY CONSTRUCTION DURING COLD, HOT AND WET WEATHER. 10. MASONRY TIES TO BE GALVANIZED CARBON STEEL - ADJUSTABLE FOR VERTICAL OR HORIZNTAL DIRECTION. PROVIDE TIES AT 16" OC VERTICALLY AND 24" OC HORIZONTALLY MAX. FOR VENEERS OR MULTIPLE WYTHES. INSTALL ADDITIONAL ANCHORS AROUND OPENINGS AND PILASTERS. 11. EXPOSED EMBEDDED FLASHINGS TO BE .0156 STAINLESS STEEL. CONCEALED FLASHING TO BE .040 THICKNESS EPDM OR RUBBERIZED-ASPHALT.

12. CORE-FILL INSULATION - NOT USED.

CONSTRUCTION AND MAONSRY FINISH IS NOT DAMAGED

15. COORDINATE CLOSELY FOR BUILT-IN WORK AND COORDINATE ALL MASONRY OPENINGS WITH FRAMING. 16. AT VENEER MASONRY INSTALL WEEPS IN HEAD JOINTS OF FIRST COURSE IN EXTERIOR WALL AND ABOVE EMBEDDED FLASHING. USE PRE-FORMED WEEP UNITS AT 48" OC MAX.

17. BRICK MASONRY INFILL TO MATCH EXISTING BUILDING. CONSTRUCT SAMPLE PANEL FOR APPROVAL TO CONFIRM MATCH BEFORE START OF INFILL WORK. 05000 <u>METALS</u> \*\*

1. COLD FORMED METAL FRAMING INTERIOR STUDS TO BE MIN. 20 GA. 3-5/8" THICKNESS MINIMUM (365S-162-33). PROVIDE 6" STUDS FOR PLUMBING WALLS OR TO MATCH THICKER EXISTING WALLS. 2. EXTERIOR STUDS TO BE 18 GA. 8" (800S-162-43).

- WHERE INDICATED. 4. PROVIDE RAILS SHOP FABRICATED AND SHOP PRIMED IN LONG SECTIONS TO MINIMIZE FIELD
- ALL WELDS TO BE GROUND SMOOTH.
- MISC. TUBES, ANGLES & CHANNELS Fy= 36 KSI. BOLTS: ASTM A325-N
- 8. ALL ANGLES / LINTELS IN EXTERIOR WALLS TO BE GALVANIZED.

06000 WOOD AND PLASTIC 1. MINIMUM WOOD BLOCKING OR NAILERS SHALL BE SYP #2, GROUND CONTACT PRESERVATIVE TREATED WHERE INDICATED AND REQUIRED BY CODE. ALL WOOD IN CONTACT WITH SLABS ON GRADE OR EXTERIOR MASONRY WALLS TO BE PRESERVATIVE TREATED. ALL FASTENERS IN CONTACT WITH PRESERVATIVE TREATED WOOD TO BE STAINLESS STEEL OR HOT DIPPED GALVANIZED ONLY. CONTRACTOR TO PROVIDE ALL NECESSARY BLOCKING, FASTENERS AND CONNECTORS. PROVIDE ALL TEMPORARY AND PERMANENT BRACING TO STABILIZE STRUCTURE AT ALL TIMES.

07100 FOUNDATION WATERPROOFING (NOT USED)

07210 BUILDING INSULATION \*\* 1. SOUND BATTS INSULATION TO BE UN-FACED FIBERGLASS BATT INSULATION BY OWNENS CORNING IN 3" THICKNESS U.N.O. SOUND BATTS SHALL BE INSTALLED IN ALL INTERIOR FRAME WALLS SEPARATING OCCUPIED SPACES U.N.O.

2. PERIMETER FOUNDATION INSULATION TO BE DOW EXPANDED POLYSTYRENE INSULATION. PERIMETER INSULATION SHALL EXTEND AROUND ENTIRE PERIMETER. 3. BATT INSULATION AS SCHEDULED ON PLANS:

07240 EXTERIOR INSULATION & FINISH SYSTEM (NOT USED)

- 07400 ROOFING & SIDING PANELS \*\*
- FOR SELECTION.
- METAL ROOF DRIP & METAL FACIA COVER TO BE PRE-FINISHED. VENTED SOFFIT PANELS TO BE PRE-FINISHED.
- EXTERIOR EDGE TRIM AT SIDING TO BE BORAL TRIM FIELD PAINT FINISH.
- EXTERIOR WALL SHEATHING TO BE EQUAL TO GP DENS-GLASS SHEATHING.

### 07420 FRP PANELS

PANELS ON CANOPY.

1. FIBERGLASS REINFORCED PLASTIC PANELS (FRP) TO BE EQ. TO MARLITE STANDARD FRP \$100 WHITE, CLASS 'A' FIRE RATED, SMOOTH FINISH PANELS.

- PANELS 4'x8'x 0.09" THICKNESS.
- CORNERS. PROVIDE Z-TRIM OVER EPOXY COVE.
- SUBSTRATE. SEALANT EQ. TO MS-251 WHITE SILICONE. MAINTAINED BEFORE, DURING AND AFTER INSTALLATION.
- 6. CLEAN PANELS AND LEAVE CLEAN & FREE FROM VISIBLE ADHESIVE.

07841 - THROUGH PENETRATION FIRESTOP SYSTEM FIRESTOP ALL NEW PENETRATIONS AND EXISTING PENETRATIONS WITH MISSING OR FAILED FIRESTOP PROTECTION THROUGH FLOORS AND RATED WALLS. REFER TO THE FOLLOWING U.L. TESTED FIRESTOP DFTAILS

### W-L-2202; W-L-1001; C-AJ-8008; C-AJ-8013

THROUGH PENETRATION FIRE-STOPPING PRODUCTS SHALL BE MANUFACTURED BY 3M. INSTALL APPROPRIATE PRODUCT AND SYSTEM BASED ON APPLICATION TO INCLUDE 3M FIRE BARRIER SEALANTS, 3M FIRE BARRIER MOLDABLE PUTTY, 3M FIRE BARRIER MORTAR AND 3M FIRE BARRIER FS-195+ WRAP STRIP. MINIMUM FIRE-RATING OF ALL ASSEMBLIES AND PENETRATIONS THROUGH FLOORS OR RATED WALLS SHALL BE 2 HOURS.

### 07900 CAULKING & SEALANTS

1. PRODUCTS SHALL BE DOW CORNING - 790 OR GE SILICONE SILPRUF 2000 WEATHERING SEALANT. 2. TYPICALLY, SEALANT COLOR TO MATCH ADJACENT MATERIAL. CONSULT ARCHITECT FOR SPECIFIC COLOR SELECTIONS FROM FULL RANGE OF MANUFACTURER'S STANDARD COLOR. 3. PROVIDE MILDEW RESISTANT SILICONE SEALANT IN AREAS SUBJECT TO HIGH HUMIDITY.

# ACI 318 - STANDARD BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE

PLACE LEVEL 10 FOOT LONG STRAIGHT EDGE RESTING ON (2) HIGH SPOTS SO THAT GAP AT ANY

6. REINFORCING BARS: ASTM A615, GRADE 60. WELDED WIRE FABRIC: ASTM A185. MINIMUM LAP SLICE

8. VAPOR BARRIER: 6 MIL MINIMUM POLYETHYLENE SHEETS - SEAL ALL EDGES

### 1. PROVIDE UNITS IN SIZES INDICATED AND SPECIAL SHAPES WHERE REQUIRED. MINIMUM COMPRESIVE STRENGTH MASONRY UNITS TO BE 1,900 PSI, ASTM C90, GRADE N. SEE COLOR SCHEDULE FOR COLORS.

6. GROUT ALL MASONRY SOLID BELOW GRADE. GROUT 24 INCHES SOLID BELOW BEARING PLATES,

### 13. CLEAN MASONRY OF ALL MORTAR DRIPS, STAINS AND EFFLORESCENCE USING EITHER A JOB MIX DETERGENT SOLUTION OR PROPRIETARY ACIDIC CLEANER TESTED TO INSURE THAT SURROUNDING

14. MASONRY SHALL BE INSTALLED PLUMB AND LEVEL. CUT MASONRY WITH A SAW ONLY.

3. PROVIDE 1-1/2"Ø MAX. EXTRA STRONG EXTERIOR GALVANIZED METAL RAILINGS AND GUARDS

WELDING AND TOUCH UP. SUBMIT RAIL SHOP DRAWINGS FOR REVIEW BEFORE FABRICATION.

COMPOSITION ROOFING: EQ. TO GAF 40 YEAR TIMBERLINE HD SHINGLES (CLASS 'A' FLAME SPREAD) ON GAF ROOF DECK PROTECTION, LEAK BARRIER, STARTER STRIPS, RIDGE VENT & OTHER ACCESSORIES REQUIRED FOR GAF COMMERCIAL 20 YEAR WARRANTY TO BE PROVIDED BY INSTALLER. WARRANTY IS NOT REQUIRED TO BE FURNISHED AS PART OF THIS WORK. SUBMIT SAMPLE

SIDING PANELS TO BE EQ. TO JAMES HARDIE PLANK SMOOTH 6" LAP FIBER-CEMENT SIDING OR

3. TRIM EQ. TO SANI-SEAL TO MATCH PANELS. PROVIDE 8' LONG SS CORNER GUARDS AT ALL OUTSIDE

4. INSTALL PANELS VERTICALLY AND FASTEN WITH NON-STAINING NYLON DRIVE RIVETS. ADHESIVE TO BE EQ. TO MARLITE C-951 SOLVENT BASED ADHESIVE INSTALLED AS RECOMMENDED BY SYSTEM MANUFACTURER. ALTERNATE ADHESIVE MAY BE CONSIDERED IF RECOMMENDED BY MFG. FOR

SHIP PANELS TO SITE AFTER BUILDING IS CONDITIONED AND ROOM TEMPERATURE WILL BE

### **SPECIFICATIONS (CONT.)**

079500 EXPANSION JOINT COVERS (NOT USED)

- 1. SEE SHEET A3.1 FOR WINDOWS DETAILS. REPLACEMENT WINDOWS TO MATCH THE COLOR AND MULLIONS OF THE NEW WINDOW AT THE FRONT OF THE BUILDING.
- 08110 STEEL DOOR & FRAMES \*\*
- 1. STEEL FRAMES TO BE SHOP PRIMED 18 GA. STEEL WITH HARDWARE FACTORY CUT & FULLY WELDED SEAMS WITH ALL WELDS GROUND SMOOTH, DRYWALL RETURN ALL FRAMES. PROVIDE (3) JAMB ANCHORS PER JAMB & ANCHOR TO FLOOR. PROVIDE CONT. HEADER ABOVE DOORS IN FRAME WALLS.
- FIELD VERIFY WALL THICKNESSES AND MASONRY OPENINGS.
- PROVIDE DOOR SILENCERS AT ALL INTERIOR DOOR JAMBS.
- INSTALL DOOR & FRAME SQUARE, PLUMB & LEVEL SO DOORS OPEN AND CLOSE WITH EASE. 5. STEEL DOORS TO BE EQ. TO CURRIES 16 GA, FULLY WELDED & INSULATED, REINFORCED FOR CLOSERS & OTHER HARDWARE.

08200 WOOD DOORS (NOT USED)

09200 GYPSUM BOARD ASSEMBLIES

1. PROVIDE COMPLETE GYPSUM BOARD ASSEMBLIES AS INDICATED FOR NEW WORK. INSTALL GYPSUM BOARD PANELS VERTICALLY ALONG STUD IN CONTINUOUS PANELS TO DECREASE BUTT JOINTS WHERE POSSIBLE. PROVIDE MR BOARD IN NON-FIRE RATED WET WALL LOCATIONS AND BEHIND ALL FRP PANELS EXCEPT AT RATED WALLS.

2. ACOUSTICAL WALLS INDICATED ARE TO BE INSTALLED W/ ALL EDGE CONDITIONS AND PENETRATIONS SEALED TO MAINTAIN ACOUSTICAL NRC RATING. 3. FINISH GYPSUM BOARD SO THAT SEAMS & SCREW LOCATIONS ARE NOT VISIBLE AFTER PAINT FINISH IS APPLIED. CONFIRM LEVEL OF GYPSUM BOARD FINISH RECOMMENDED FOR FRP PANEL INSTALLATION W/

FRP MFG. 4. WHERE GYPSUM BOARD MEETS CMU WALLS OR OTHER STRUCTURE, PROVIDE A CONT. METAL J-BEAD EDGE WITH A FLEXIBLE SILICONE SEALANT FILLER.

5. AREAS ABOVE CEILINGS AND OTHER CONCEALED AREAS TO HAVE TAPED SEAMS ONLY. 6. CROOKED CORNERS OR WALLS WILL BE REQUIRED TO BE STRAIGHTENED.

09300 <u>CERAMIC TILE & STONE</u> (NOT USED))

09510 ACOUSTICAL TILE CEILING \*\* 1. TYPICAL CEILING TILES TO BE ARMSTRONG KITCHEN ZONE 2'x2'x 5/8", SQUARE LAY-IN INSTALLED IN STANDARD METAL SUSPENSION SYSTEM EQ. TO PRELUDE XL. MAIN BEAMS: .025" THICKNESS, 1-1/2" HIGH AND 15/16" FLANGE (WHITE ENAMEL FINISH). SUSPEND WITH 12 GA. HANGERS AT 4'-0" OC MAX. AND 8" FROM ENDS. CROSS BEAMS: .017" THICKNESS, LOCKED INTO MAIN BEAMS. SUSPEND FROM STRUCTURE ABOVE ONLY - NOT FROM PIPES OR DUCTWORK. INSTALL GRID LEVEL TO HEIGHT INDICATED OR, WITH PRIOR APPROVAL FROM THE ARCHITECT, AS HIGH AS STRUCTURE & EQUIPMENT ALLOW. U.N.O. CENTER GRID IN ROOM AS INDICATED ON THE REFLECTED CEILING PLAN. LEAVE (2) FULL BOXES OF TILE FOR OWNER REPLACEMENT AFTER OCCUPANCY.

2. CONTRACTOR TO COORDINATE ITEMS INSTALLED IN CEILING SO THAT LIGHTS ARE EVENLY SPACED & DIFFUSERS & DETECTORS ARE CENTERED IN THE TILE.

3. PROVIDE U.L. RATED CEILING SYSTEM WHERE INDICATED OR REQ'D. 4. NEATLY TRIM & TOUCH UP PAINT ALL VISIBLE CUT EDGES. REPLACE ALL NICKED AND DAMAGED TILES BEFORE FINAL INSPECTION.

09650 RESILIENT FLOORING \*\*

1.  $\frac{1}{3}$ " x 4" RUBBER COVE BASE BY JOHNSON RUBBER CO. INSTALL SO ALL SEAMS ARE TIGHT & FLUSH WITH WALL.

### 09660 <u>CARPET</u> (NOT USED)

09670 FLUID APPLIED FLOOR COATING \*\*

- KITCHEN FLOOR COATING TO BE EQUAL TO SIKAFLOOR 22-NA PURCEM 1/4" MIN. THICKNESS URETHANE CEMENT SAND BROADCAST WITH SIKAFLOOR 510 LPL POLYASPARTIC RESIN TOP COAT. PROVIDE SAMPLE FOR OWNER TO SELECT DESIRED SLIP-RESISTANT FINISH. 2. ABRASIVE CLEAN CONCRETE WITH DUST FREE SHOT BLASTING OR OTHER APPROVED METHOD TO
- BARE CONCRETE OR OBTAIN ACCEPTANCE TO INSTALL OVER EXISTING COATED SURFACE AS RECOMMENDED BY MANUFACTURER. 3. FILL EXISTING FLOOR CRACKS LEVELING MATERIAL AS RECOMMENDED BY SYSTEM MANUFACTURER.
- 4. SYSTEM SHALL HAVE A FINISHED WET FLOOR MIN. DCOF OF 0.60 PREP EXISTING FLOOR AND WALL AS RECOMMENDED BY THE MFG. AND PROVIDE A 4" BASE COVE W/ 3/4" RADIUS. SEAL TOP OF WALL COVE. PROVIDE MANUFACTURER RECOMMENDED TERMINATION AT ALL FREE EDGES OF SIKAFLOOR WHETHER AT PERIMETER, OR ALONG DRAINS. AT
- FLOOR EDGE PROVIDE 1/2" WIDE & DEEP GROOVE IN CONCRETE TO TERMINATE PURCEM. PROVIDE THRESHOLDS AT DOORS.
- 6. PROVIDE TOP COATS W/ ANTI-MICROBIAL SURFACE USDA APPROVED FOR FOOD PREPARATION. INSTALLER SHALL INSPECT THE SUBSTRATE AND SHALL NOT BEGIN APPLICATION UNTIL SUBSTRATE IS
- ACCEPTED. EXISTING CONCRETE SLAB IS ASSUMED TO HAVE NO VAPOR BARRIER.
- 8. PROVIDE SAMPLES FOR COLOR & TEXTURE SELECTION FROM STANDARD COLORS.

09900 PAINTING \*\*

1. PREPARE ALL SURFACES FOR COATINGS & APPLY COATINGS AS RECOMMENDED BY THE MFG SPECIFICATIONS BELOW BASED ON SHERWIN-WILLIAMS. NOTE THAT EXPOSED ALUM., BRASS, CHROME, STAINLESS STEEL, ETC. TO BE LEFT UNFINSHED. DO NOT PAINT OVER TAGS & LABELS.

2. NO SPRAY APPLICATION OF PAINT WITHOUT PRIOR APPROVAL FROM OWNER. IF SPRAY APPLICATION IS USED, TURN OFF HVAC SYSTEM & PROTECT EQUIPMENT & ADJACENT SURFACES FROM OVERSPRAY. 3. EXTENT OF COATING IN CONTRACT INCLUDES: EXTERIOR SURFACES THAT ARE NOT PRE-FINISHED. PAINT INTERIOR FERROUS METALS - INCLUDING BUILDING STRUCTURE, METAL DOORS, FRAMES & RAILS, ALL EXPOSED GYPSUM DRYWALL SURFACES, AS WELL AS EXPOSED DUCTWORK, PIPING & CONDUIT. 4. PRIOR TO APPLICATION OF ANY COATING, PAINTING CONTRACTOR WILL EXAMINE THE SUBSTRATE TO BE COATED. APPLICATION OF PAINT DEMONSTRATES PAINTING CONTRACTOR'S ACCEPTANCE OF SUBSTRATE.

### PAINTING SHEDULE:

EXTERIOR FERROURS METAL: shall be painted in accordance with the Steel Structural Painting Council Specification (SSPC) "Alkyd Paint System No. 2.04 with Zinc Chromate Iron Oxide Primer" as follows: a. The surface shall be cleaned as specified in SSPCSP 663 "Commercial Blast Cleaning".

b. Pretreament of the steel shall not be required. c. All paint, shall be applied in accordance with SSPCPA 164, "Field and Maintenance Painting".

- d. A minimum of three coats of paint shall be applied.
- e. After cleaning, the steel shall be primed with one coat of paint conforming with Federal Specification TTP57b, "Zinc Yellow Iron Oxide Base, Ready Mixed". f. Touch up field painting shall be performed in accordance with specification SSPCPA 164.
- g. The second paint coat shall be SW A100 Exterior Latex Gloss.
- h. The finish coat of paint shall be SW Al00 Exterior Latex Gloss.

i. The dry film thickness of the paint at any point shall not be less than the following: for the primer 1.5 mils; for the three coat paint system 3.5 mils. In the event the required paint film thickness is not achieved as specified, additional coats shall be applied until the required thickness is obtained.

EXTERIOR GALVANIZED METALS: (All exterior galvanized metal to be painted. Prepare Galvanized surfaces as recommended by coating manufacturer before coating). Prepare per workmanship above.

1st Coat: SW DTM Acrylic Primer/Finish 2.5 mils. 2nd Coat: SW A-100 Exterior Latex Gloss 3rd Coat: SW A-100 Exterior Latex Gloss

EXTERIOR CMU MASONRY:

INTERIOR GYPSUM DRYWALL:

Clear, waterproof, low VOC sealer

Eg-Shel Enamel:

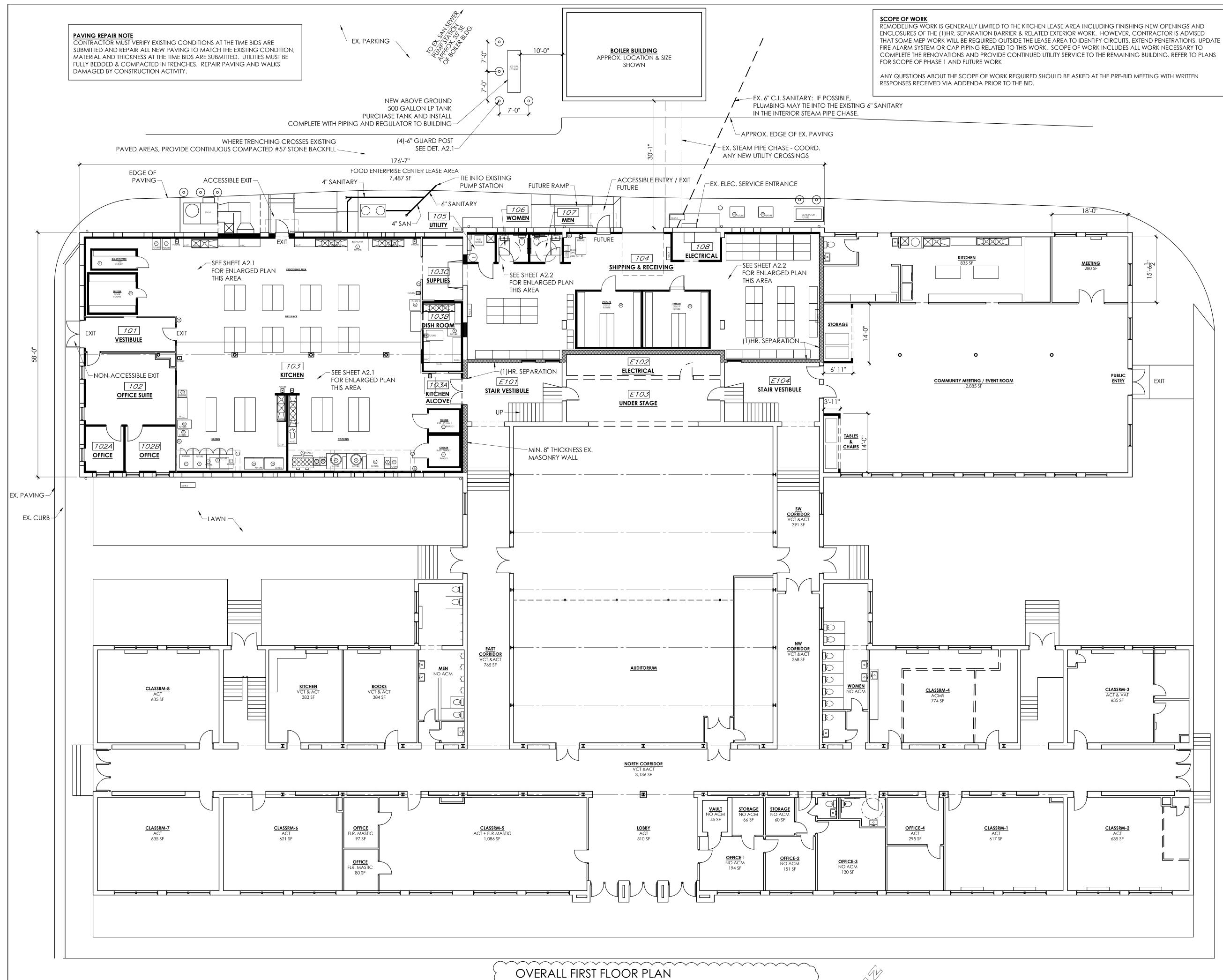
1st Coat: SW PrepRite Classic Latex Primer (OR LEVEL 5 COATING) 2nd Coat: SW Pro-Mar 200 LATEX Semi-gloss 3rd Coat: SW Pro-Mar 200 LATEX Semi-gloss

NOTE: APPLY WASHABLE SEMI-GLOSS FINISH TO ALL AREAS

PECIFICATIONS (CONT.) ITERIOR FERROUS METALS:	PHASE 1
GROUP A: (All exposed interior ceiling metal, except aluminum, brass, bronze, chrome, stainless steel).	
o include the following items specially: steel joists, steel beams, purlins, steel girders, steel deck. Ist Coat: Primer coat generally by others, touch up and prepare per Workmanship above or apply ne coat of SW DMT Acrylic Primer. 2nd Coat: SW Pro-Mar 200 Alkyd flat wall paint.	
Brd Coat: SW Pro-Mar 200 Alkyd flat wall paint. Note: All pipe, pipe covering, and conduits, shall be finished the same as the materials to which they	
re attached. Group B: All other interior metal not pre-finished and in particular: door jambs, steel doors and frames,	
tc. Primer: Factory primer or SW Kem Bond HS Universal Primer 2nd Coat: SW Pro-Mar 200 Alkyd Semi-Gloss	
Brd Coat: SW Pro-Mar 200 Alkyd Semi-Gloss. GALVANIZED METAL: same as for ferrous metals above.	Z
ITERIOR MASONRY & GYPSUM BOARD IN FOOD PREP AND STORAGE AREAS:	
paint finish: 1ST Coat: SW PrepRite Block filler. Prep existing masonry as recommended by SW technical 2nd Coat: SW Pro Industrial Acrylic Coating Gloss (washable finish) 3rd Coat: SW Pro Industrial Acrylic Coating Gloss (washable finish)	NSTRUCTI
AINTED WOOD WORK:	AST
1ST Coat: PrepRite Wall and Wood Primer 2nd Coat: SW Pro-Mar 200 Interior latex Semi-Gloss. 3rd Coat: SW Pro-Mar 200 Interior latex Semi-Gloss.	
IATURAL FINISH WOOD (not used)	SR e
1ST Coat: Stained - Minwax penetrate color - lightly sanded 2nd Coat: Minwax clear gloss polyurethane 3rd Coat: Minwax clear gloss polyurethane 4th Coat: Minwax clear gloss polyurethane	
NTERIOR CONCRETE FLOOR	
Clear Concrete Sealer - Clean existing floor & apply Waterproof, low VOC 0260 <u>WALL &amp; CORNER GUARDS</u> . SEE SHEET A1.01.	
<ul> <li>INTERIOR SIGNAGE</li> <li>PROVIDE BEST MANUFACTURING SYSTEM HC 300 ADA SYSTEM. COLOR AS SELECTED BY ARCHITECT.</li> <li>PROVIDE (1) HC 300 6"x8" AT EACH TOILET DOOR MOUNTED AT 60" A.F.F TO CENTER. SIGNS SHOULD INDICATE "UNI-SEX" OR "FAMILY" AS WELL AS HC ACCESSIBILITY.</li> <li>PROVIDE SIGN COMPLYING WITH ICC A117.1 ON DOOR EX-2 STATING: "EXTERIOR AREA FOR ASSISTED RESCUE".</li> </ul>	
. ADDITIONAL INTERIOR SIGNAGE BY OWNER. 0500 LOCKERS (BY OTHERS)	
0600 <u>PARTITIONS</u> (NOT USED)	
0800 <u>TOILET ACCESSORIES</u> ** . SEE SHEET A2.2 FOR TOILET ACCESSORIES AND PARTITIONS.	S A N D E R S ARCHITECTURE PC
1130 <u>AUDIOVISUAL EQUIPMENT</u> . U.N.O. ALL AUDIO VISUAL EQUIPMENT WILL BE FURNISHED AND INSTALLED BY OWNER. AT RE-CONSTRUCTION MEETING CONTRACTOR TO IDENTIFY SCHEDULING REQUIREMENTS AND ALERT OWNER OF TIMING OF ANY A/V INSTALLATIONS. THE OWNER WILL PROVIDE ALL DATA CABLING,	16125 RACCOON FORD RD CULPEPER, VIRGINIA 22701 (v)540-829-2590
ELEPHONE SERVICE AND EQUIPMENT. . SEE ELECTRICAL FOR EMPTY DATA BOXES AND CONDUIT IN CONTRACT.	
1400 <u>FOOD SERVICE EQUIPMENT</u> . KITCHEN EQUIPMENT, SHELVES & APPLIANCES WILL BE PROVIDED DELIVERED TO THE SITE BY OWNER. EE NOTES ON SHEET A2.2 . CONTRACTOR TO COORDINATE KITCHEN APPLIANCES, SINKS AND SHELVING WITH PLUMBING,	ARVI TER
'ENTILATION & ELECTRICAL REQUIREMENTS. 1480 <u>ATHLETIC EQUIPMENT</u> (NOT USED)	
2000 <u>FURNISHINGS</u>	U D N
. ALL FURNISHINGS ARE BY OTHERS. 1310 <u>LIGHTNING PROTECTION</u> (NOT USED)	GTC SISE NHIG
3120 <u>PRE-ENGINEERED STRUCTURES</u> (NOT USED)	SHINGTC ERPRISE S MADISON HIG
3850 <u>FIRE ALARM &amp; DETECTION</u> EE FIRE ALARM & ELECTRICAL	ASHINC NTERPR AMES MADISC
UBMIT ALL EQUIPMENT & FIXTURES FOR REVIEW 4240 HYDRAULIC PASSENGER ELEVATOR (NOT USED)	WASHINGTON ENTERPRISE CE 2 JAMES MADISON HIGHWAY RAPIDAN, VA 22733
5000 <u>MECHANICAL</u> ** EE PLUMBING & MECHANICAL PLANS UBMIT ALL EQUIPMENT & FIXTURES FOR REVIEW	О О 9432 J
6000 <u>ELECTRICAL</u> ** EE ELECTRICAL PLANS	
UBMIT ALL PANELS, DEVICES & LIGHTING FOR REVIEW	
UBMITTAL SCHEDULE UBMIT SHOP DRAWINGS & PRODUCT INFORMATION IN PDF FORMAT OR PHYSICAL SAMPLES:	NLTH OF
<ul> <li>CAST-IN-PLACE CONCRETE</li> <li>UNIT MASONRY (SAMPLE BRICK PANEL)</li> </ul>	Salar Contraction of the
5000 METAL RAILS 6000 STAINED RED OAK (SAMPLE)	DEX A. SANDERS Lic. No. 8814
<ul> <li>BUILDING INSULATION</li> <li>EXTERIOR INSULATION &amp; FINISH SYSTEM (SAMPLE)</li> <li>ROOFING (SAMPLE)</li> </ul>	08-11-22
8000 WINDOWS 8110 STEEL DOORS & FRAMES 8710 DOOR HARDWARE SCHEDULE	ARCHITECT
950 RESILIENT BASE (SAMPLES)	REVISIONS: 08-22-22
<ul> <li>9670 FLUID APPLIED FLOOR COATING (SAMPLE)</li> <li>9900 PAINTING (COLOR SAMPLES)</li> <li>0425 INTERIOR SIGNAGE (COLOR CHART)</li> <li>0800 TOILET ACCESSORIES</li> </ul>	
SEE MECHANICAL, ELECTRICAL & PLUMBING SHEETS FOR MEP, FIRE ALARM	
QUIPMENT AND SYSTEM SUBMITTALS REQUIRED TO EVALUATE EACH SYSTEM.	DRAWN: DA CHECKED: SCALE: NOTEI DATE: 08-11-2

PROJECT **SPECIFICATIONS** 

**CS-2** 



OVERALL FIRST FLOOR PLAN	
SCALE: 3/32" = 1'-0"	

### GENERAL DEMOLITION NOTES

SEE PROJECT MANUAL SECTION 01732 SELECTIVE DEMOLITION FOR ADDITIONAL INFORMATION & REQUIREMENTS.

THE INTENT OF DEMOLITION ACTIVITIES GENERALLY IS TO PREPARE FOR NEW FINISHED WORK AND TO RETURN EXISTING DISTURBED AREAS TO A CONDITION TO MATCH EXISTING ADJACENT FINISHES. IT IS IMPERATIVE THAT THE CONTRACTOR AND ANY SUB- CONTRACTORS INVOLVED IN THE WORK EXAMINE THE SITE PRIOR TO SUBMITTING A BID TO IDENTIFY MISC. AREAS OF REPAIR NECESSARY TO COMPLETE THE WORK. REQUESTS FOR CHANGES WILL NOT BE GRANTED TO PERFORM DEMOLITION WORK REQUIRED TO COMPLETE THE PROJECT THAT IS VISIBLE AT THE TIME BIDS ARE SUBMITTED.

1. WHERE FLOOR, WALLS OR CEILING ARE REMOVED, REPAIR EXISTING ADJACENT FLOOR, BASE, WALLS & CEILING TO MATCH ADJACENT FINISHES UNLESS OTHERWISE SCHEDULED. PROVIDE NEW COVER PLATES WHERE PLATES ARE MISSING OR DAMAGED. UNLESS OTHERWISE NOTED, TOUCH UP REPAINTING SHALL COVER ENTIRE WALL SURFACE AFFECTED BY DEMOLITION. RE-PAINT BOTH SIDES OF DOORS & FRAMES IN AREAS SCHEDULED FOR NEW FINISHES.

2. ALL DEMOLITION ACTIVITIES SHALL BE PERFORMED IN FULL COOPERATION AND COORDINATION W/ OWNER. COORDINATE ALL LOSS OR REDUCTION OF EGRESS ELEMENTS OR ELECTRICAL OR COMMUNICATIONS SYSTEMS WITH OWNER. FOR INTERIOR REMODELING, ERECT DUST BARRIERS & NEGATIVE PRESSURE ENCLOSURES AROUND ENTIRE NEW CONSTRUCTION AREA TO PROTECT ADJACENT SPACES FROM DUST AND DEBRIS. CONTRACTOR SHALL MAINTAIN DUST BARRIER INTEGRITY TO OWNER'S SATISFACTION AT ALL TIMES UNTIL SUBSTANTIAL **COMPLETION.** VERIFY AT PRE-CONSTRUCTION MEETING ACCESS TO WORK AREA AND EXTENT OF WORK TO BE PERFORMED AFTER HOURS.

3. WHERE EXIST. ITEMS ARE RELOCATED, REPAIR DAMAGES TO ORIGINAL LOCATION AND PROVIDE HANGERS, SUPPORTS, WIRING, CONDUIT, ETC. NECESSARY FOR THE RELOCATION.

4. PROTECT EXISTING STRUCTURE FROM DAMAGE DURING CONSTRUCTION ACTIVITIES. EXTREME CARE MUST BE TAKEN NOT TO DAMAGE OR DISTURB EXISTING EQUIPMENT WHILE PERFORMING WORK. DO NOT TURN OFF BREAKERS OR VALVES WITHOUT OWNER'S PERMISSION.

5. DURING REGULAR BUSINESS HOURS, MAINTAIN REQUIRED EXITS FROM BUILDING TO THE SATISFACTION OF THE BUILDING OFFICIAL.

6. U.N.O. EXISTING VALVES, ELECTRICAL RECEPTACLES, SWITCHES & EQUIPMENT SERVICING EXISTING FACILITY TO REMAIN. CONTRACTOR SHALL COORDINATE <u>ALL</u> POWER OR FIRE ALARM SYSTEM INTERRUPTIONS WITH OWNER'S REPRESENTATIVE.

7. WHERE NEW PENETRATIONS ARE MADE THRU EXISTING EXTERIOR WALLS OR ITEMS ARE REMOVED CREATING HOLES - SEAL FOR INSULATED & WEATHER-TIGHT ENCLOSURE.

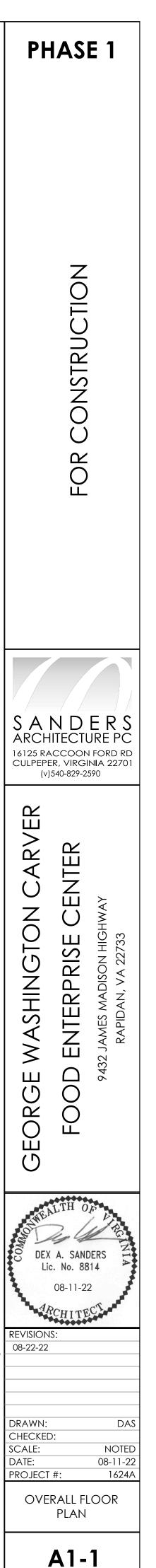
8. IT IS THE INTENTION OF THESE BID DOCUMENTS TO IDENTIFY THE GENERAL DESIGN INTENT OF THE DEMOLITION AND REMODELING WORK NECESSARY FOR THE PERFORMANCE OF THIS REMODELING PROJECT. CONTRACTOR & SUB-CONTRACTORS MUST FIELD VERIFY EXISTING MISC. CONDUIT, PIPING, EQUIPMENT AND OTHER ITEMS ABOVE AND BELOW THE LAY-IN CEILING THAT WILL NEED TO BE REMOVED AND OR RELOCATED. THIS WILL REQUIRE VISITING THE SITE PRIOR TO SUBMITTING BIDS TO UNDERSTAND EXISTING CONDITIONS FOR ITEMS TO BE REMOVED AND OR RELOCATED. THE OWNER'S CONSTRUCTION REPRESENTATIVE(S) SHOULD BE CONTACTED PRIOR TO BIDS SO ANY QUESTIONS MAY BE ANSWERED BEFORE BIDS ARE SUBMITTED.

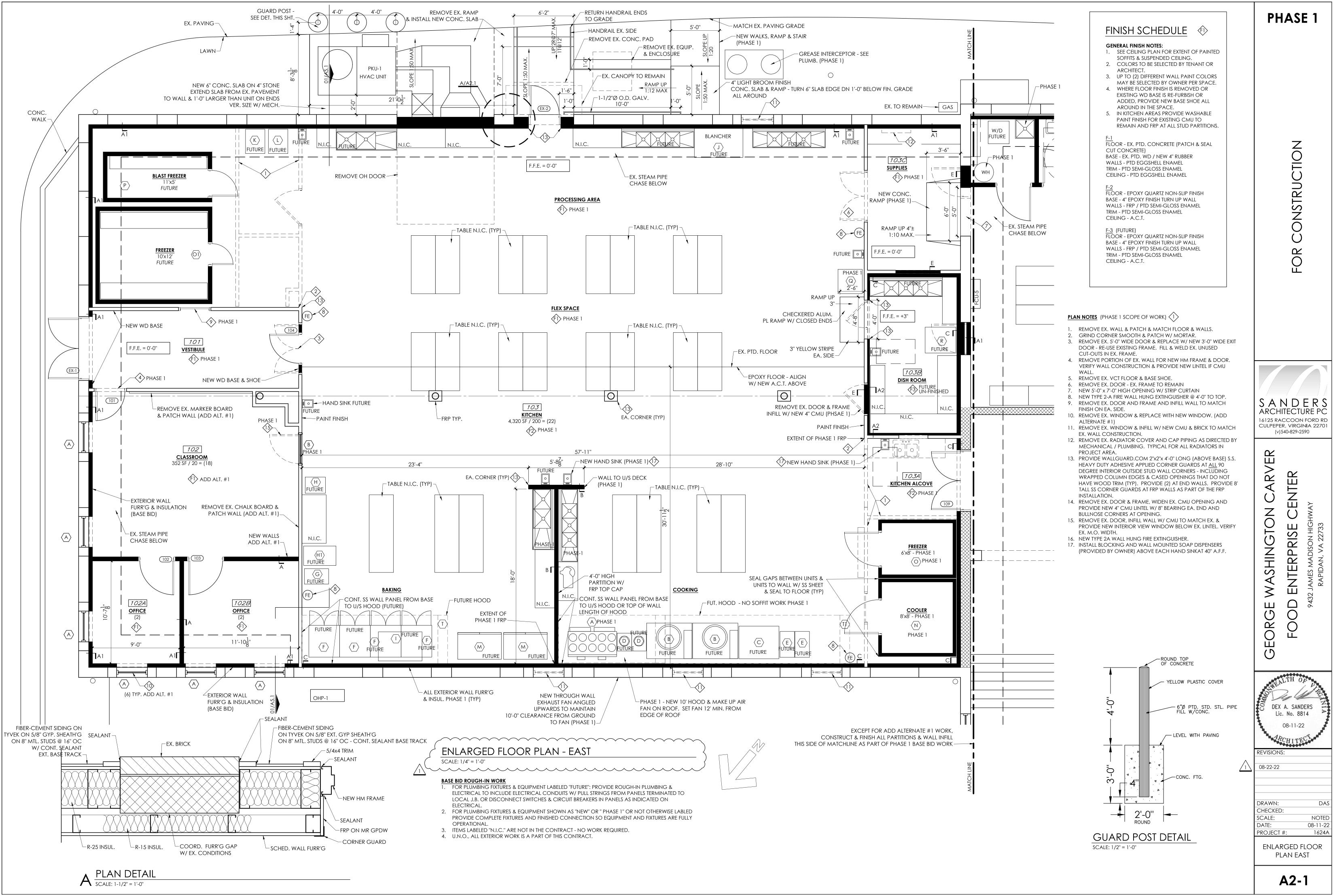
9. FINISHED FLOOR SPACE IS EXTREMELY VALUABLE TO THE OWNER. CONTRACTOR TO BOX TIGHTLY AROUND ALL EXPOSED PIPING & CONDUIT WITH SCHEDULED FINISH. CONTRACTOR SHALL BOX IN AROUND SPRINKLER RISERS, CONDUITS, MISC. DUCTS & OTHER EXPOSED PIPING WITH GPDW ON METAL FRAMING.

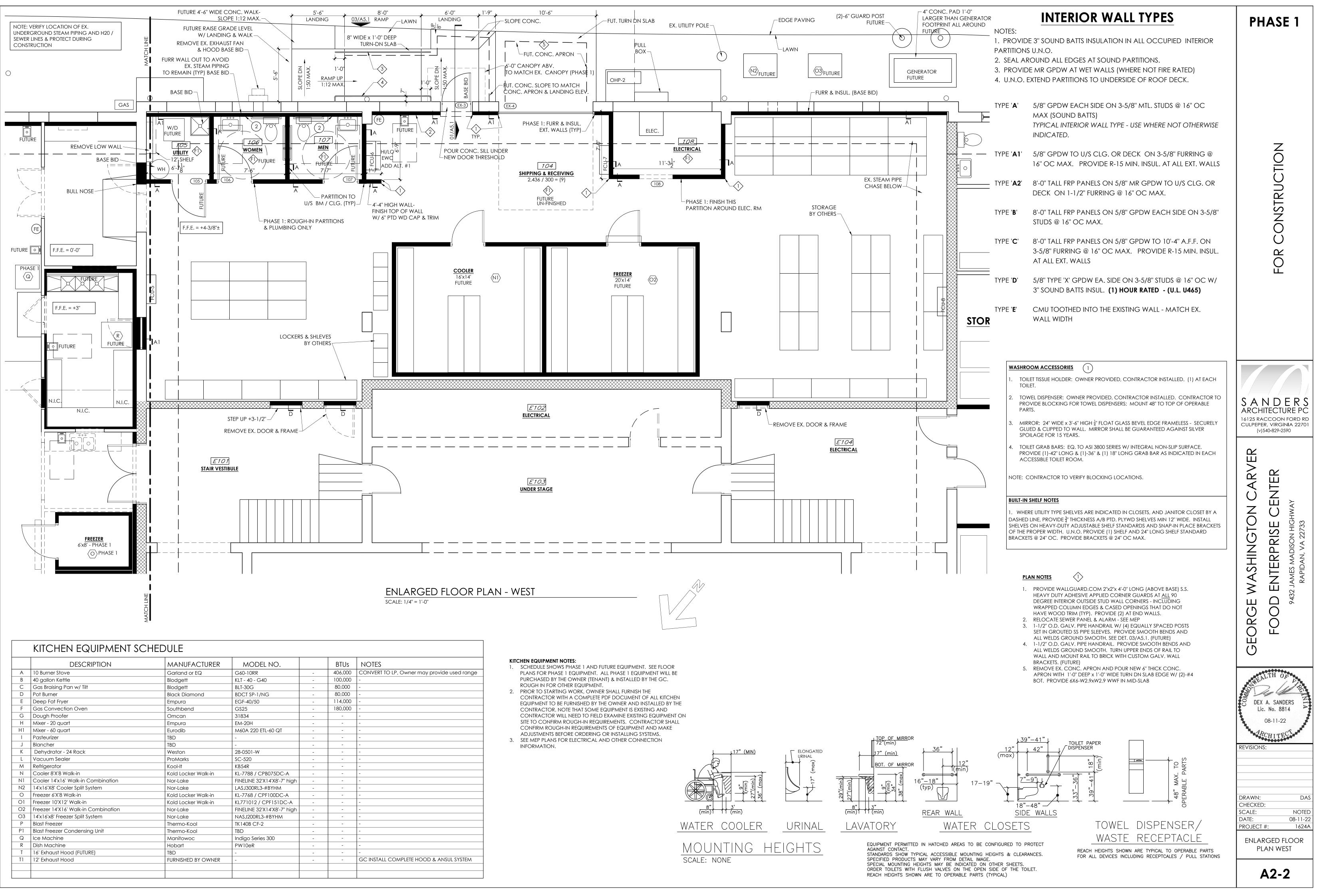
10. REPORT ANY DAMAGE TO EXISTING EQUIPMENT OR STRUCTURE TO OWNER AT THE TIME OF DAMAGE - EVEN IF THE DAMAGE IS PROMPTLY REPAIRED.

11. SEE MEP SHEETS FOR ADDITIONAL EQUIPMENT DEMOLITION AND HOLES REQUIRED.

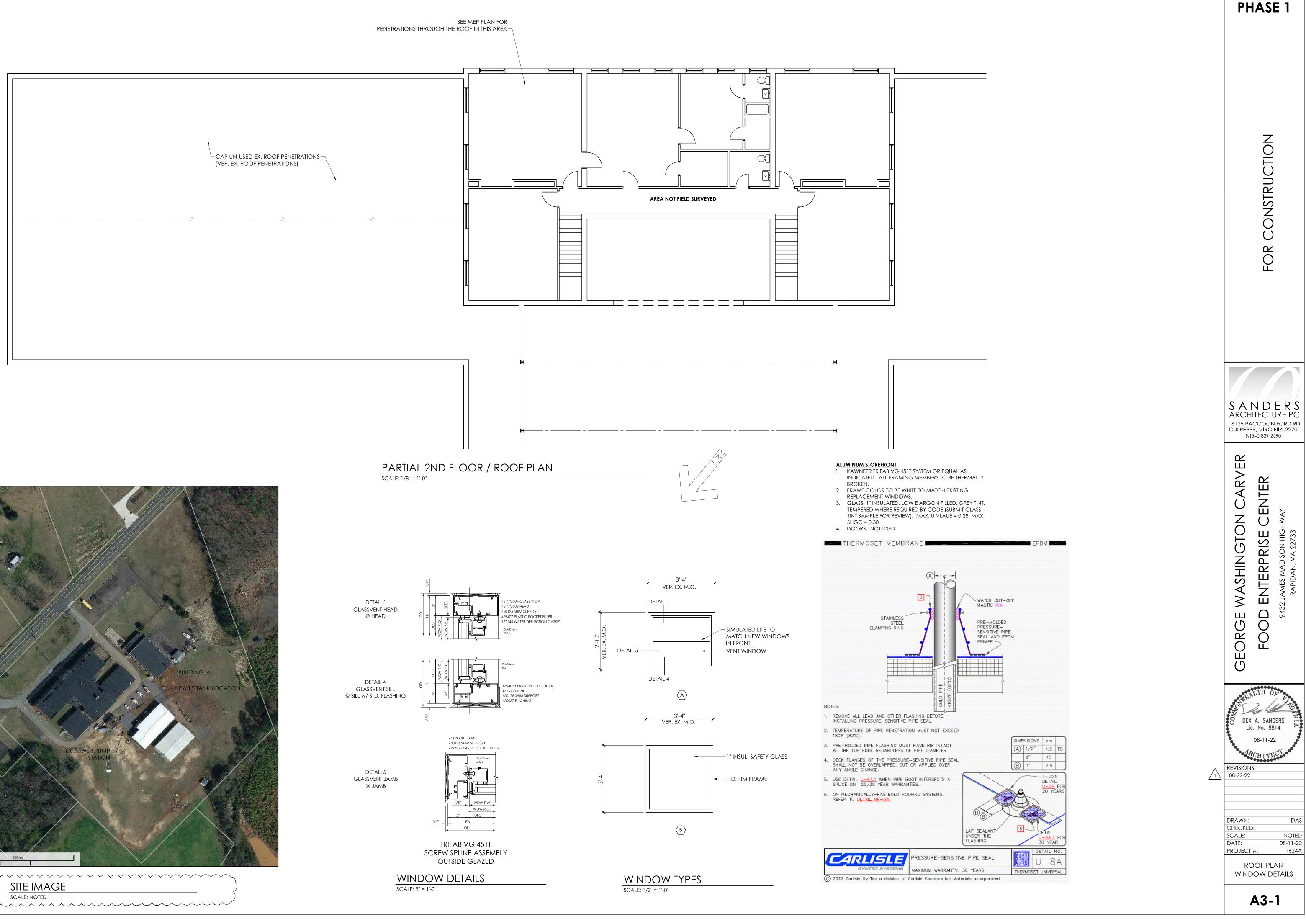
12. WHERE EXISTING WALLS ARE REMOVED REPAIR FLOOR AND CEILING TO MATCH ADJACENT EXISTING SURFACES OR FOR NEW FINISH AS INDICATED.





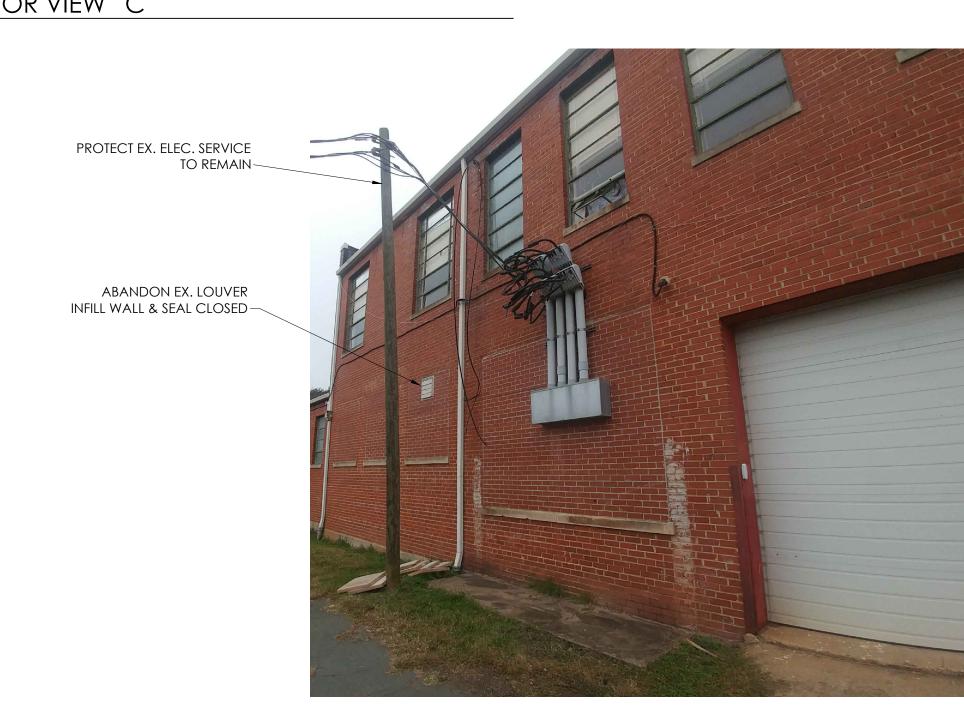


	DESCRIPTION	MANUFACTURER	MODEL NO.		BTUs	NOTES
Α	10 Burner Stove	Garland or EQ	G60-10RR	-	406,000	CONVERT TO LP, Owner may provide
В	40 gallon Kettle	Blodgett	KLT - 40 - G40	-	100,000	-
С	Gas Braising Pan w/ Tilt	Blodgett	BLT-30G	-	80,000	-
D	Pot Burner	Black Diamond	BDCT SP-1/NG	-	80,000	-
Е	Deep Fat Fryer	Empura	EGF-40/50	-	114,000	-
F	Gas Convection Oven	Southbend	GS25	-	180,000	-
G	Dough Proofer	Omcan	31834	-	-	-
Н	Mixer - 20 quart	Empura	ЕМ-20Н	-	-	-
11	Mixer - 60 quart	Eurodib	M60A 220 ETL-60 QT	-	-	-
	Pasteurizer	TBD	-	-	-	-
J	Blancher	TBD	-	-	-	-
K	Dehydrator - 24 Rack	Weston	28-0501-W	-	-	-
L	Vacuum Sealer	ProMarks	SC-520	-	-	-
Μ	Refrigerator	Kool-It	KB54R	-	-	-
1	Cooler 8'X'8 Walk-in	Kold Locker Walk-in	KL-7788 / CPB075DC-A	-	-	-
1	Cooler 14'x16' Walk-in Combination	Nor-Lake	FINELINE 32'X14'X8'-7" high	-	-	-
12	14'x16'X8' Cooler Split System	Nor-Lake	LASJ300RL3-#BYHM	-	-	-
C	Freezer 6'X'8 Walk-in	Kold Locker Walk-in	KL-7768 / CPF100DC-A	-	-	-
)1	Freezer 10'X12' Walk-in	Kold Locker Walk-in	KL771012 / CPF151DC-A	-	-	-
)2	Freezer 14'X16' Walk-in Combination	Nor-Lake	FINELINE 32'X14'X8'-7" high	-	-	-
03	14'x16'x8' Freezer Split System	Nor-Lake	NASJ200RL3-#BYHM	-	-	-
Р	Blast Freezer	Thermo-Kool	TK140B CF-2	-	-	-
P]	Blast Freezer Condensing Unit	Thermo-Kool	TBD	-	-	-
Q	Ice Machine	Manitowoc	Indigo Series 300	-	-	-
R	Dish Machine	Hobart	PW10eR	-	-	-
Т	16' Exhaust Hood (FUTURE)	TBD	-	-	-	-
T1	12' Exhaust Hood	FURNISHED BY OWNER	-	-	-	GC INSTALL COMPLETE HOOD & ANS













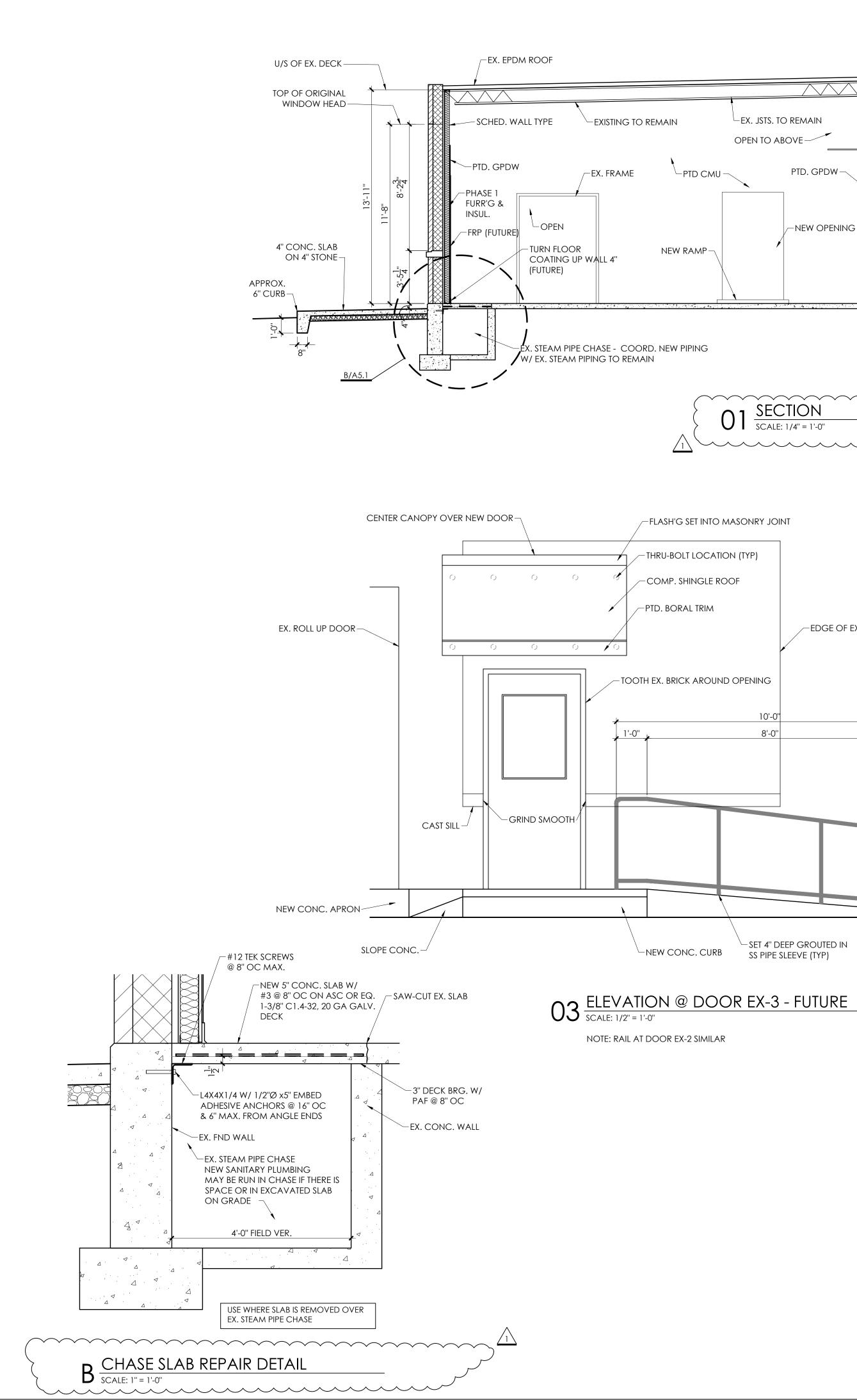


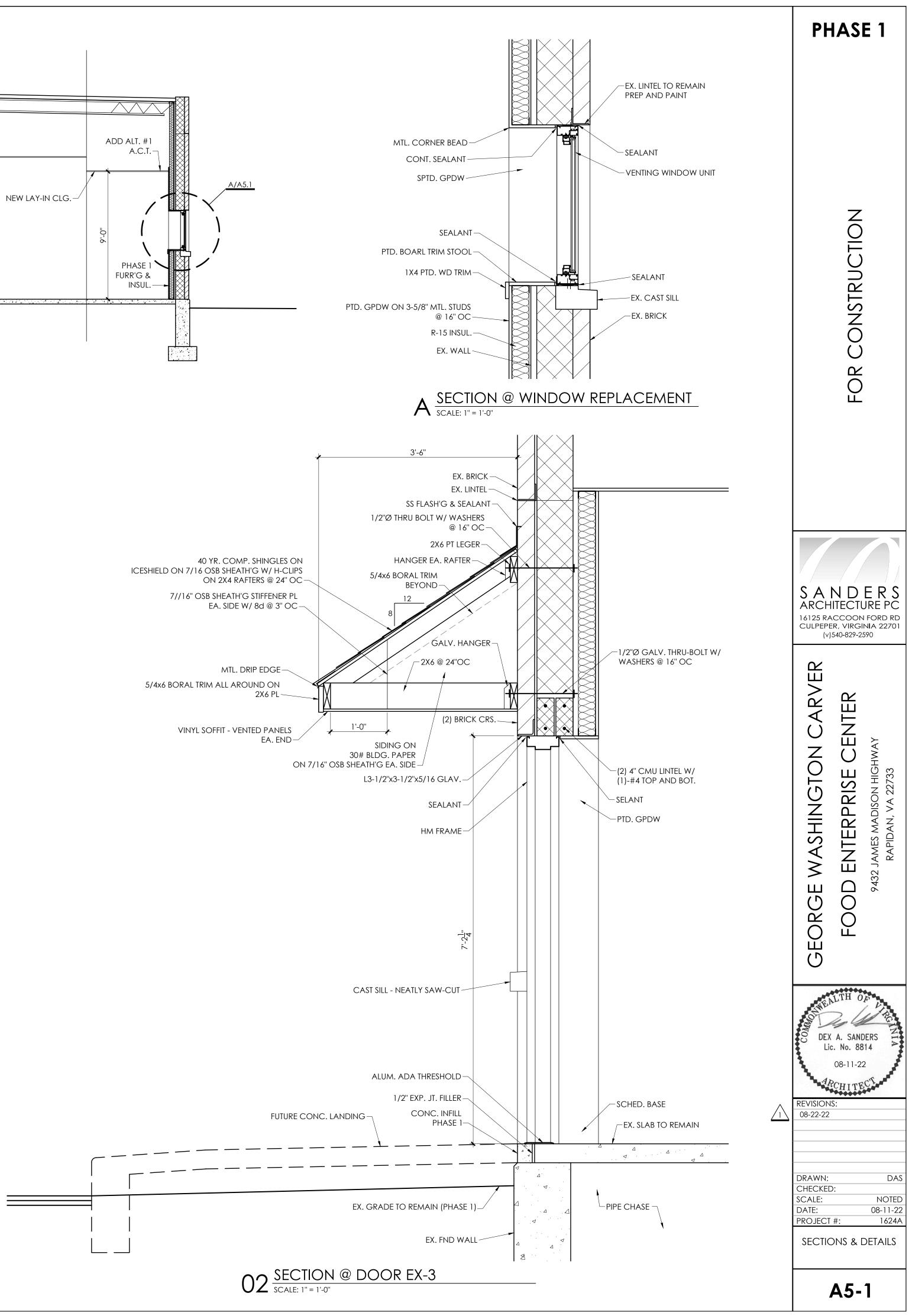


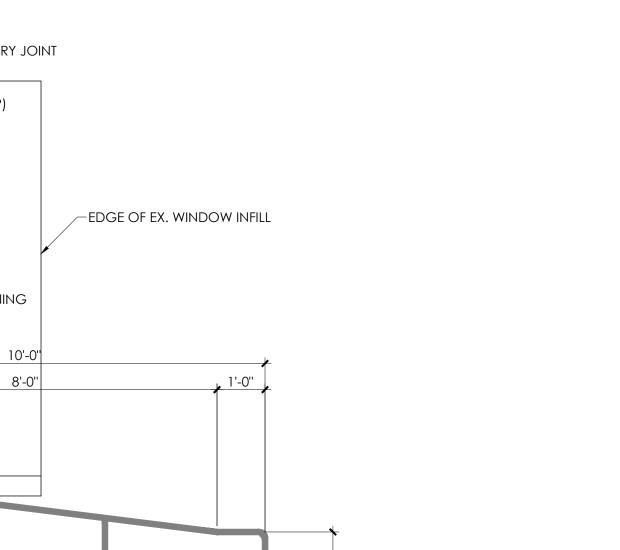


SW EXTERIOR VIEW 'B' SCALE: NONE









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─BOT. RAIL 4" ABV. THE CONC.

ρŵ οP α' -RAMP

PTD. GPDW —

-NEW OPENING

EX. JSTS. TO REMAIN

OPEN TO ABOVE

01 <u>SECTION</u> SCALE: 1/4" = 1'-0"

\_\_\_\_EX. STL. COL. BEYOND

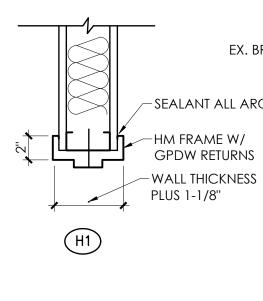
EX. ROOF DECK-

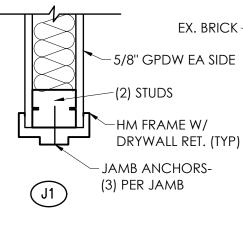
PHASE 1 A.C.T.

EX. STL. BM

SS PIPE SLEEVE (TYP)

-SET 4" DEEP GROUTED IN

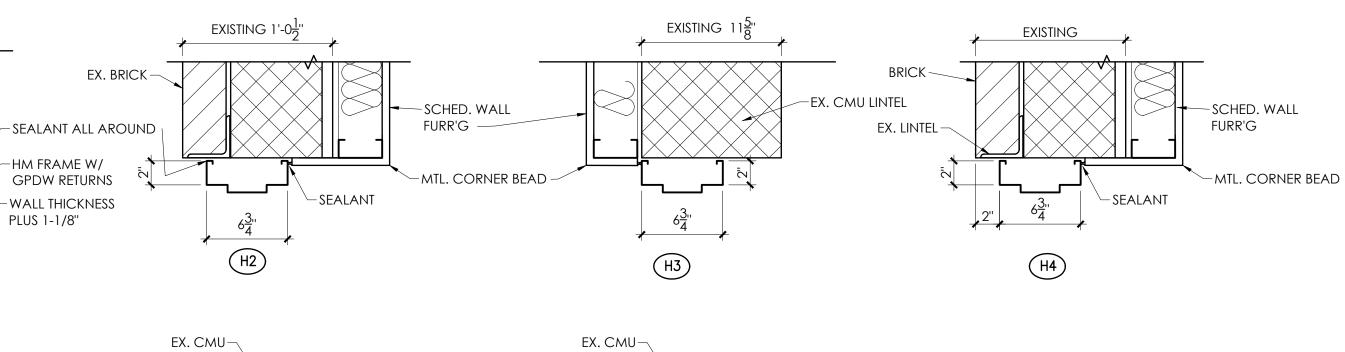


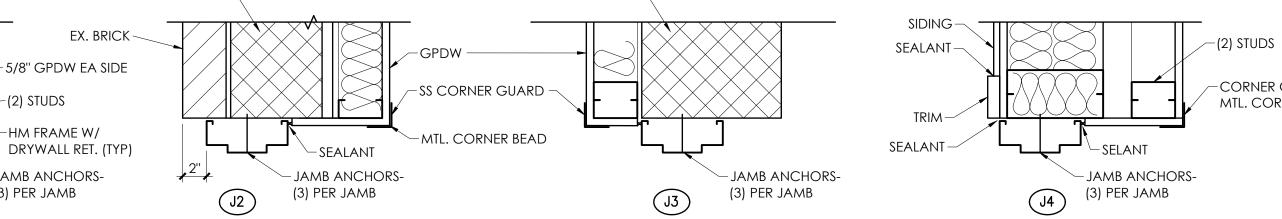


[	DOOR		DOO	R					FRAME	-			REMARKS
	NO.	SIZE W X H X T	MAT'L	FIN	TYPE	LOUVER	MAT'L	FIN	Detail Head / Jamb	THRES	U. L. LABEL	HDW SET	SEE PROJECT MANUAL FOR HARDWARE SPECS.
		EXTERIOR											
	EX-1	PR. 3'-1"± x7'-0"x1-3/4"	STL.	PTD.	A	-	НМ	PTD.	H2/J2	6" ALUM.	-	-	EXTERIOR PULL, KEYED PANIC EXIT, 12" KICKPL., FUT. CARD KEY
) -	EX-2	3'-0''x7'-0''x1-3/4''	STL.	PTD	С	-	НМ	PTD.	H4/J4	6" ALUM.	-	-	LEVER EXT. KEYED PANIC EXIT, CLOSER, 12" KICKPL.
ήĘ	EX-3	3'-0''x7'-0''x1-3/4''	STL.	PTD	D	-	НМ	PTD.	H2/J2 SIM.	6" ALUM.	-	-	LEVER HANDLE, PANIC EXIT W/ ELEC. STRIKE, 34" KICKPL.
	EX-4	EXISTING	-	-	-	-	-	PTD	-	-	-	-	EXISTING ROLL UP DOOR TO REMAIN - PAINT EXT. JAMB
		INTERIOR											
	101	3'-0'' x 7'-0'' x 1-3/4''	WD	STN	D	-	НМ	PTD	H1/J1	-	-	-	CLASSROOM LOCKSET, NO CLOSER, 34" KICKPL
	102**	3'-0''x7'-0''x1-3/4''	WD	STN	D	-	НМ	PTD	H1/J1	-	-	-	OFFICE LOCKSET, NO CLOSER (ADD ALT. #1)
: [	103**	3'-0''x7'-0''x1-3/4''	WD	STN	D	-	НМ	PTD	H1/J1	-	-	-	OFFICE LOCKSET, NO CLOSER (ADD ALT. #1)
) [	104	3'-0''x7'-0''x1-3/4''	STL.	PTD.	D	-	НМ	PTD	H1/J1	-	-	-	PASSAGE LATCHSET, PANIC EXIT, CLOSER, 34" KICKPL.
	105*	3'-0''x7'-0''x1-3/4''	STL.	PTD.	С	-	НМ	PTD	H1/J1	-	-	-	PASSAGE LATCHSET, NO CLOSER, 12" KICKPL EA. SIDE
	106*	3'-0''x7'-0''x1-3/4''	STL.	PTD.	С	-	НМ	PTD	H1/J1	-	-	-	PRIVACY LOCKSET, CLOSER, 12" KICKPL EA. SIDE
	107*	3'-0''x7'-0''x1-3/4''	STL.	PTD.	С	-	НМ	PTD	H1/J1	-	-	-	PRIVACY LOCKSET, CLOSER, 12" KICKPL EA. SIDE
	108	3'-6''x7'-0'' CASED OPEN	-	-	-	-	-	PTD	-	-	-	-	
	109	3'-0''x7'-0''x1-3/4'' ver. ht.	STL.	PTD	В	-	НМ	PTD	H3/J3	-	60 MIN.	-	STOREROOM LOCKSET, FLUSH BOLTS INACTIVE, FUT. CARD READER

\* DOOR TO BE INSTALLED IN FUTURE PHASE

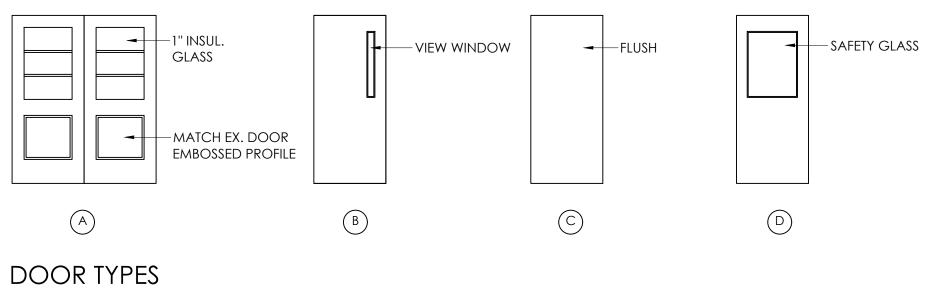
\*\* DOOR TO BE INSTALLED IN PHASE 1 ADD ALTERNATE #1 WORK





FRAME DETAILS

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



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

### HARDWARE NOTES / TYPES

GENERAL NOTES:

1. U.N.O, ALL HINGED DOORS TO HAVE SURFACE MOUNTED CLOSERS. PROVIDE CLOSERS WITH HOLD OPEN FEATURES AT NON-RATED STORAGE DOORS.

2. ALL INTERIOR HARDWARE SATIN STAINLESS FINISH.

3. ALL LATCH SETS AND HANDLES TO BE MATCHING LEVER STYLE W/ FULL RETURN.

4. ALL INTERIOR DOORS TO HAVE MINIMUM GRADE 2 COMMERCIAL HARDWARE UNLESS OTHERWISE NOTED.

5. PROVIDE 12" KICKPLATES AT TOILET & ALL DOORS OPENING TO THE CORRIDOR. 6. EXTERIOR DOORS TO HAVE WEATHERSTRIPPING ALL AROUND W/ SILL SWEEPS. PROVIDE SILL SWEEPS WITH DRIPS AT OUTSWINGING STEEL DOORS WITHOUT OVERHANGS.

7. INSTALL ALL LOCKSETS AS SCHEDULED. KEY ALL EXTERIOR DOORS THE SAME. KEY ALL INTERIOR UTILITY DOORS ALIKE. KEY ALL DOORS TO A MASTER & GRANDMASTER KEY SYSTEM. COORDINATE W/ OWNER.

8. PROVIDE COMMERCIAL BRUSHED STAINLESS STEEL DOOR STOPS AT ALL DOORS - FLOOR MOUNTED WHERE POSSIBLE OR WALL MOUNTED W/ FULL BLOCKING.

9. REFERENCE THE PROJECT MANUAL FOR HARDWARE SPECIFICATIONS. HARDWARE SUPPLIER SHALL PREPARE DETAILED HARDWARE SCHEDULE FOR REVIEW UPON NOTICE TO PROCEED. FURNISH ALL HARDWARE NECESSARY FOR A COMPLETE CODE COMPLIANT INSTALLATION AS INDICATED BY THE CONSTRUCTION DOCUMENTS.

10. COORDINATE HARDWARE WITH OWNER'S SECURITY / ACCESS CONTROL REQUIREMENTS.

### DOOR NOTES

1. ALL DOORS UP TO 7'-0" TALL TO HAVE 1 -1/2 PAIR HINGES. DOORS OVER 7'-0" TALL TO HAVE 2 PAIR HINGES.

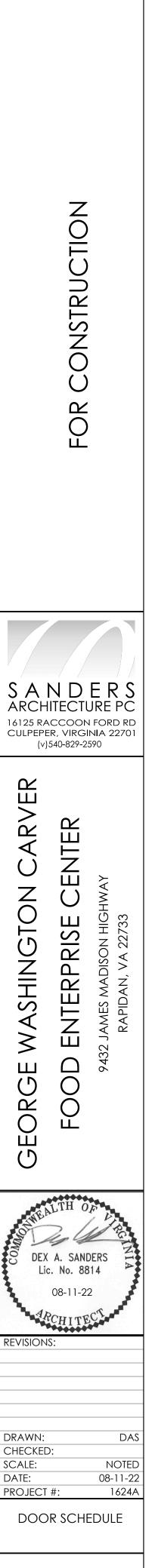
2. UNDERCUT DOORS AS REQUIRED FOR EASE OF OPERATION. ALL DOORS SHALL HANG 1/8" ABOVE FINISHED FLOOR/THRESHOLD EXCEPT DOORS SCHEDULED TO BE UNDERCUT OR SPECIAL ACOUSTIC DOORS.

3. ALL DOORS TO BE REINFORCED FOR CLOSERS. PROVIDE MATCHING TRIM AT LITES. INTERIOR GLASS TO BE  $\frac{1}{4}$  - SAFETY WHERE REQUIRED U.N.O.

4. PROVIDE (3) SILENCERS TYP. AT EACH INTERIOR DOOR ON THE LATCHING SIDE.

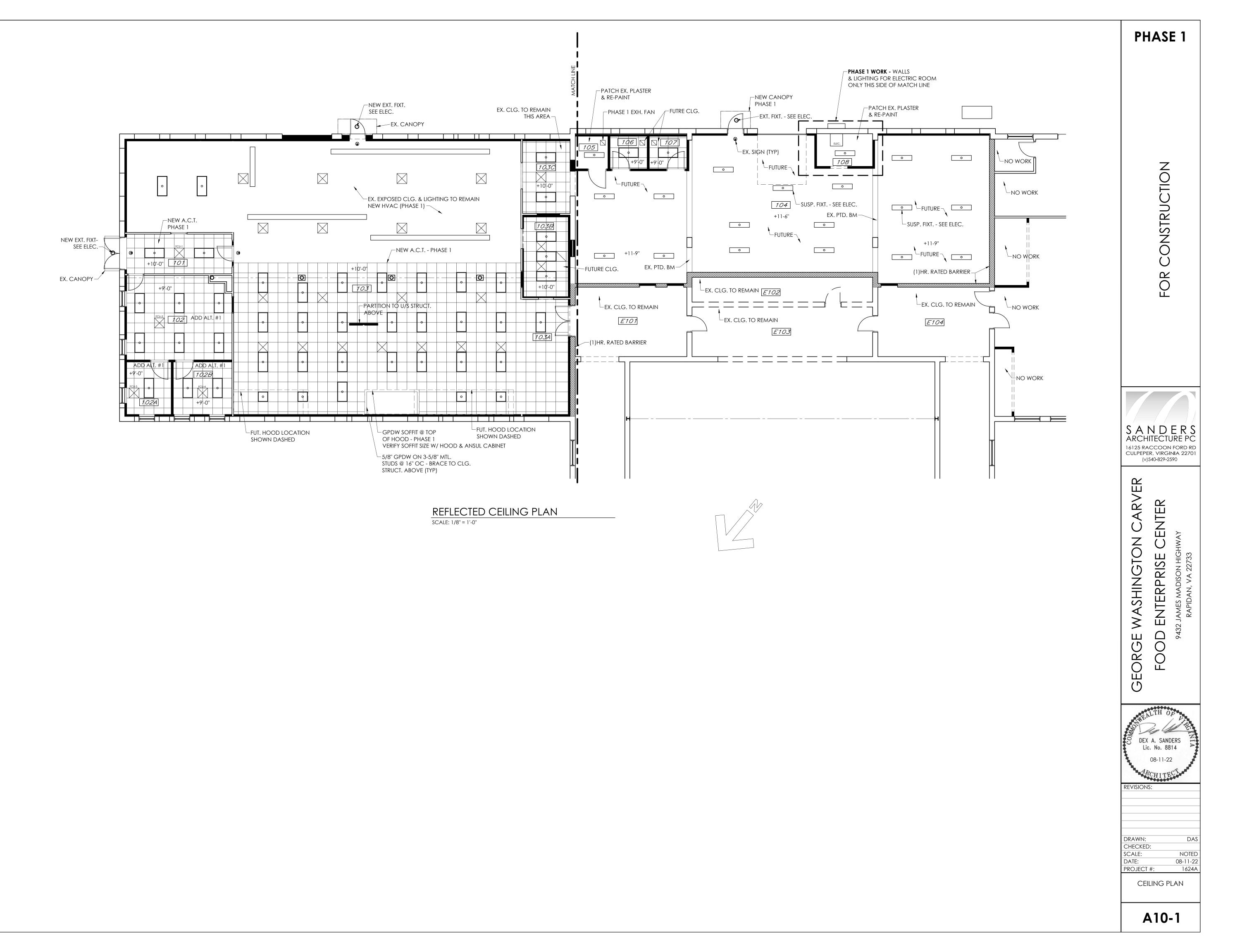
5. EXTERIOR GLASS IN DOORS TO BE 1" INSULATED UNITS.

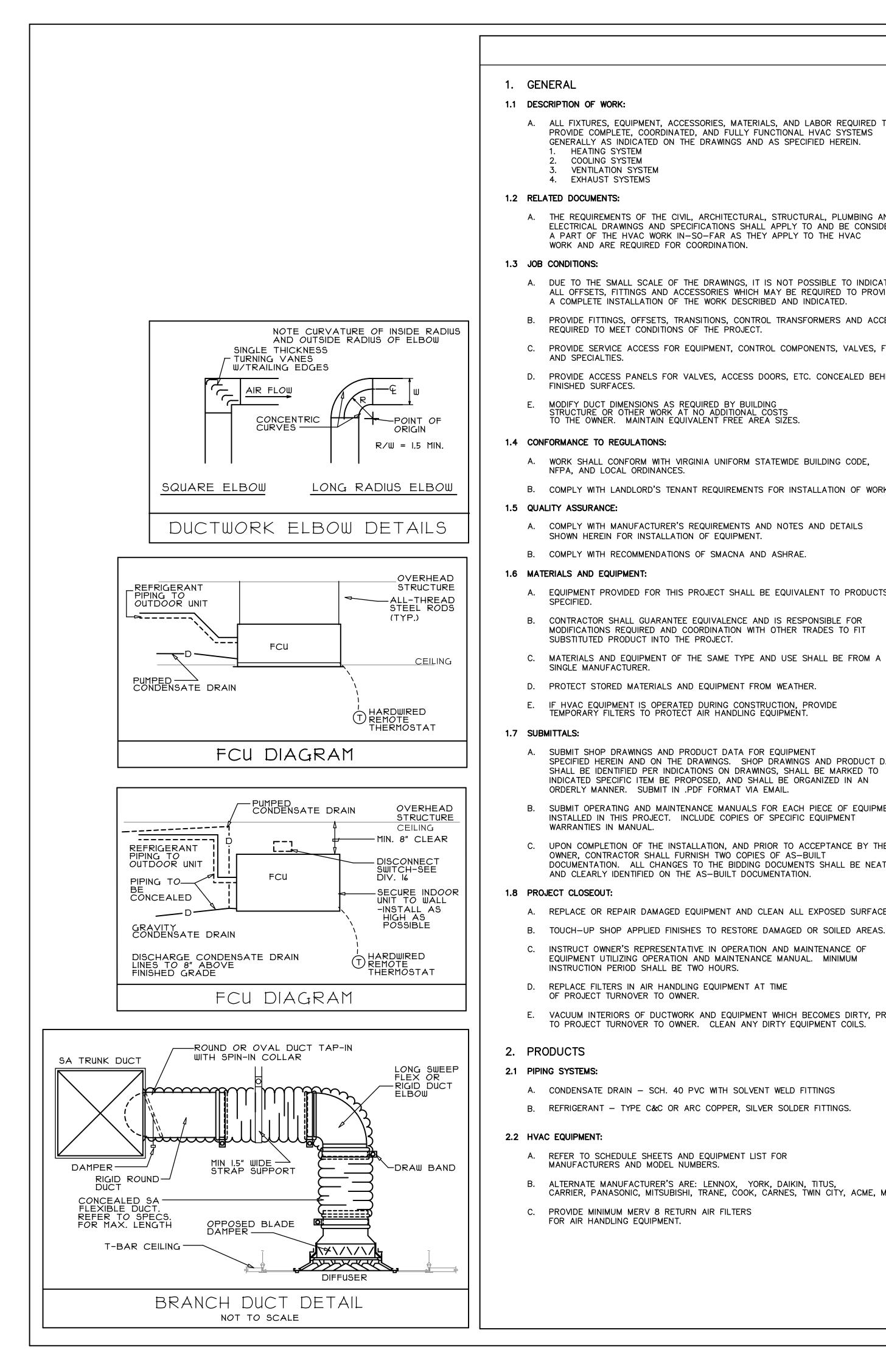
-CORNER GUARD OVER MTL. CORNER BEAD



PHASE 1

**A8-1** 





### ALL FIXTURES, EQUIPMENT, ACCESSORIES, MATERIALS, AND LABOR REQUIRED TO PROVIDE COMPLETE, COORDINATED, AND FULLY FUNCTIONAL HVAC SYSTEMS GENERALLY AS INDICATED ON THE DRAWINGS AND AS SPECIFIED HEREIN.

### A. THE REQUIREMENTS OF THE CIVIL, ARCHITECTURAL, STRUCTURAL, PLUMBING AND ELECTRICAL DRAWINGS AND SPECIFICATIONS SHALL APPLY TO AND BE CONSIDERED A PART OF THE HVAC WORK IN-SO-FAR AS THEY APPLY TO THE HVAC

A. DUE TO THE SMALL SCALE OF THE DRAWINGS, IT IS NOT POSSIBLE TO INDICATE ALL OFFSETS, FITTINGS AND ACCESSORIES WHICH MAY BE REQUIRED TO PROVIDE A COMPLETE INSTALLATION OF THE WORK DESCRIBED AND INDICATED.

PROVIDE FITTINGS, OFFSETS, TRANSITIONS, CONTROL TRANSFORMERS AND ACCESSORIES

C. PROVIDE SERVICE ACCESS FOR EQUIPMENT, CONTROL COMPONENTS, VALVES, FILTERS

PROVIDE ACCESS PANELS FOR VALVES, ACCESS DOORS, ETC. CONCEALED BEHIND

# TO THE OWNER. MAINTAIN EQUIVALENT FREE AREA SIZES.

WORK SHALL CONFORM WITH VIRGINIA UNIFORM STATEWIDE BUILDING CODE,

B. COMPLY WITH LANDLORD'S TENANT REQUIREMENTS FOR INSTALLATION OF WORK.

# A. COMPLY WITH MANUFACTURER'S REQUIREMENTS AND NOTES AND DETAILS

A. EQUIPMENT PROVIDED FOR THIS PROJECT SHALL BE EQUIVALENT TO PRODUCTS

B. CONTRACTOR SHALL GUARANTEE EQUIVALENCE AND IS RESPONSIBLE FOR MODIFICATIONS REQUIRED AND COORDINATION WITH OTHER TRADES TO FIT

C. MATERIALS AND EQUIPMENT OF THE SAME TYPE AND USE SHALL BE FROM A

PROTECT STORED MATERIALS AND EQUIPMENT FROM WEATHER.

TEMPORARY FILTERS TO PROTECT AIR HANDLING EQUIPMENT.

SUBMIT SHOP DRAWINGS AND PRODUCT DATA FOR EQUIPMENT SPECIFIED HEREIN AND ON THE DRAWINGS. SHOP DRAWINGS AND PRODUCT DATA SHALL BE IDENTIFIED PER INDICATIONS ON DRAWINGS, SHALL BE MARKED TO INDICATED SPECIFIC ITEM BE PROPOSED, AND SHALL BE ORGANIZED IN AN

B. SUBMIT OPERATING AND MAINTENANCE MANUALS FOR EACH PIECE OF EQUIPMENT INSTALLED IN THIS PROJECT. INCLUDE COPIES OF SPECIFIC EQUIPMENT

C. UPON COMPLETION OF THE INSTALLATION, AND PRIOR TO ACCEPTANCE BY THE OWNER. CONTRACTOR SHALL FURNISH TWO COPIES OF AS-BUILT DOCUMENTATION. ALL CHANGES TO THE BIDDING DOCUMENTS SHALL BE NEATLY AND CLEARLY IDENTIFIED ON THE AS-BUILT DOCUMENTATION.

A. REPLACE OR REPAIR DAMAGED EQUIPMENT AND CLEAN ALL EXPOSED SURFACES.

INSTRUCT OWNER'S REPRESENTATIVE IN OPERATION AND MAINTENANCE OF EQUIPMENT UTILIZING OPERATION AND MAINTENANCE MANUAL. MINIMUM

VACUUM INTERIORS OF DUCTWORK AND EQUIPMENT WHICH BECOMES DIRTY, PRIOR TO PROJECT TURNOVER TO OWNER. CLEAN ANY DIRTY EQUIPMENT COILS.

A. CONDENSATE DRAIN - SCH. 40 PVC WITH SOLVENT WELD FITTINGS B. REFRIGERANT - TYPE C&C OR ARC COPPER, SILVER SOLDER FITTINGS.

ALTERNATE MANUFACTURER'S ARE: LENNOX, YORK, DAIKIN, TITUS, CARRIER, PANASONIC, MITSUBISHI, TRANE, COOK, CARNES, TWIN CITY, ACME, METALAIRE

# HVAC SPECIFICATIONS

### 2.3 AIR DISTRIBUTION:

A. METAL DUCTWORK: SHOP FABRICATED AS FOLLOWS.

- MATERIALS: GALVANIZED STEEL SHEET, ASTM A 527-85. CONSTRUCTION: PER SMACNA HVAC DUCT CONSTRUCTION STANDARDS
- FOR LOW PRESSURE SYSTEM UP TO 2" W.C. CONSTRUCTION. JOINT SEALANT: UL LISTED FOSTER MASTIC, HARDCAST FTA-20, KINGCO 18-136.
- SUPPLY AIR BRANCH DUCTS RUN IN CONCEALED AREAS MAY BE PRE-INSULATED, UL CLASS 1, FLEXIBLE DUCT - LIMIT LENGTH TO TEN
- FEET USE RIGID DUCT FOR REMAINDER OF RUNOUT. KITCHEN HOOD EXHAUST DUCT SHALL BE 16 GAUGE BLACK STEEL WITH SEAMS AND JOINTS WELDED LIQUIDTIGHT AND SMOOTH INTERIOR OF DUCT. PROVIDE UL LISTED ZERO CLEARANCE INSULATION ON DUCT TO MAINTAIN PROPER CLEARANCE TO COMBUSTIBLES-1 1/2" THICK WITH 3" THICK OVERLAPS. PROVIDE CLEANOUTS IN DUCT PER CODE RÉQUIREMENTS. COVER EXTERIOR DUCT WITH ALUMINUM JACKET-SEAL JOINTS AND SEAMS WEATHER TIGHT.
- BRICK VENT SHALL BE EXTRUDED ALUMINUM, CHANNEL FRAME WITH BIRDSCREEN, SIZE PER DRAWINGS - ACME SERIES BEX OR EQUAL DRYER VENT SHALL BE RIGID GALVANIZED STEEL WITH LONG RADIUS ELBOWS AND NO SCREWS PROTRUDING INTO VENT. USE RIVETS AT JOINT AND FITTING CONNECTIONS. USE FLEXIBLE METAL VENT AT CONNECTION TO DRYER. MINIMUM THICKNESS OF VENT TO BE 26 GAUGE. FIRESTOP VENT PENETRATIONS THRU FIRE RATED CONSTRUCTION PER ULC-AJ7063.
- DAMPERS AS MANUF. BY RUSKIN, CESCO, ARROW, CREATIVE METALS, PREFCO VOLUME DAMPERS SHALL BE GALVANIZED STEEL, 16 GAUGE, BLADE HEIGHT SHALL NOT EXCEED 12". DAMPER LINKAGE AND LOCKING QUADRANT SHALL BE OUTSIDE OF AIRSTREAM.
- ACCESS DOORS -C.
- FACTORY BUILT WITH SASH LOCKS. BUTT HINGE, GASKET, 24 GA. DOOR AND 22 GA. FRAME
- ACCESS DOOR IN INSULATED DUCT SHALL BE DOUBLE CONSTRUCTION, WITH INSULATION ENCASED.
- MINIMUM SIZE TO BE 75% SIZE OF DUCT IN WHICH INSTALLED, OR 10" X 10". 4. CESCO MODEL HAD-10. LOUVERS AND DAMPERS, KEES, INC. OR AIR BALANCE.
- 2.4 CONTROLS:
  - A. PROVIDE ALL RELAYS, TRANSFORMERS, CONTROL WIRING, TERMINAL BLOCKS, ETC. FOR A COMPLETE SYSTEM. COMPONENT MANUFACTURER'S AND MODEL NUMBERS AS SPECIFIED ON DRAWINGS.
  - THE WARRANTY PERIOD SHALL COMMENCE AFTER 60 DAYS OF BENEFICIAL USE, MEASURED FROM THE DATE OF ACCEPTANCE FROM THE OWNER.

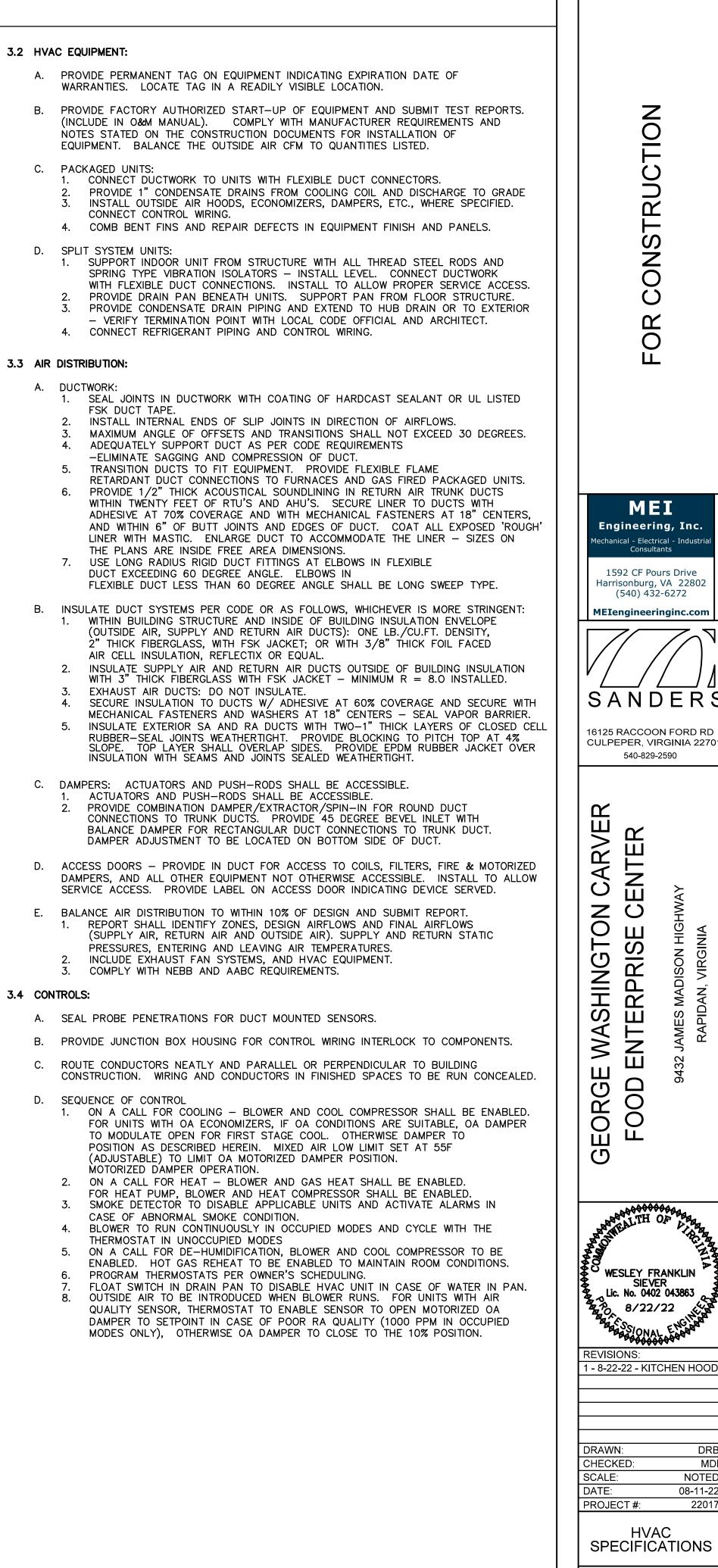
### 3. EXECUTION

- 3.1 PIPING SYSTEMS:
  - A. VERIFY INVERT ELEVATIONS PRIOR TO EXCAVATION.
  - B. BACKFILL BURIED PIPE IN TRENCHES WITH DIRT FREE OF ROCK, STONE OR DEBRIS.
  - C. VERIFY EXACT LOCATION OF EQUIPMENT PRIOR TO ROUGH-IN.
  - D. COORDINATE ROUTING OF WORK WITH OTHER TRADES AND INSTALL TO ALLOW MAXIMUM HEADROOM CLEARANCES, SERVICE ACCESS AND MAINTAIN PROPER PITCH OF SLOPING LINES.
  - E. INSULATE PIPING SYSTEMS AS FOLLOWS:
  - REFRIGERANT CLOSED CELLULAR RUBBER TO CODE REQUIRED THICKNESS. HORIZONTAL CONDENSATE DRAIN - 1/2" THICK FIBERGLASS WITH ASJ. SEAL VAPOR BARRIERS. SECURE WITH ADHESIVE AND SEAL JOINTS WITH
  - SFALANT.
  - 4. PROVIDE GALVANIZED STEEL SADDLE AT HANGERS SURROUNDING INSULATED
  - DO NOT COMPRESS INSULATION EXCEPT IN AREAS OF STRUCTURAL
  - INTERFERENCE. INSTALL PRE-FITTED PLASTIC ELBOWS OR APPLY CANVAS JACKET IN THREE
  - LAYERS AT ELBOWS. INSULATE FITTINGS, VALVES AND EQUIPMENT BODIES. PROVIDE 2 COATS OF GREY WEATHERPROOF FINISH ON EXTERIOR REFRIGERANT PIPING.

  - F. PROVIDE SLEEVES FOR PIPING PENETRATING WALLS. INSULATION SHALL BE CONTINUOUS THROUGH SLEEVES.
  - G. FIRESTOP PIPING PASSING THROUGH FIRE RATED WALLS OR CEILINGS.
  - H. PATCH FINISHED AREAS DISTURBED BY WORK TO MATCH SURROUNDING AREAS.
  - WELDING SHALL BE DONE BY CERTIFIED WELDERS FOR THE APPROPRIATE
  - J. MAKE CONNECTIONS OF DISSIMILAR METALLIC PIPING WITH DIELECTRIC UNIONS.
  - K. DO NOT USE PLASTIC PIPING IN RETURN AIR PLENUM SPACES.
  - L. PROVIDE SHUT OFF VALVES AT EQUIPMENT CONNECTIONS.

SYSTEM BEING WELDED.

- M. HANGERS SUPPORTING COPPER PIPING SHALL BE COPPER PLATED OR PLASTIC COVERED. HANGERS SUPPORTING INSULATED PIPING SHALL BE SIZED TO SURROUND INSULATION AND STEEL SADDLE.
- N. CLEAN AND FLUSH PIPING THEN TEST PIPING SYSTEMS AS FOLLOWS: REFRIGERANT PIPING - TO 100 PSIG W/ COMPRESSED AIR FOR FOUR HOURS AND TEST FITTINGS WITH
- FREON AND HALIDE LEAK DETECTOR.
- CONDENSATE DRAIN PIPING W/ 10 FT. WATER COLUMN OR 5 PSI COMPRESSED AIR FOR 12 HOURS.
- TESTS SHALL SHOW NO SUBSTANTIAL LOSS IN PRESSURE. PIPING RUN IN CONCEALED AREAS SHALL BE LEAK TESTED PRIOR TO BEING CONCEALED.
- 5. SUBMIT WRITTEN REPORT OF TEST RESULTS.

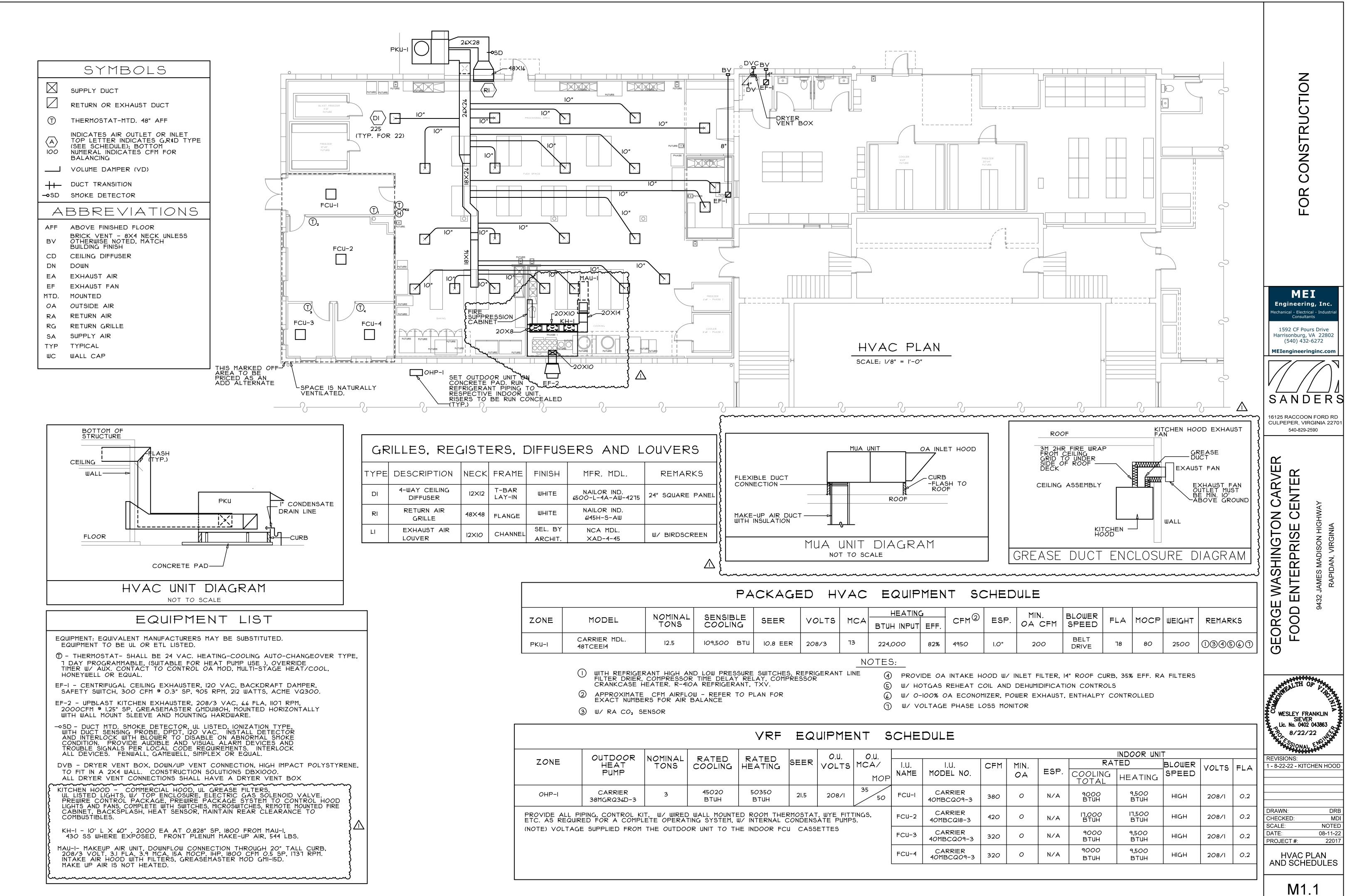


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NOTED

08-11-22

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			٢A	CKAGE	=D H	VAC	EQUIP	
	NODEL	NOMINAL	SENSIBLE				HEATING	<u> </u>
ZONE	MODEL	TONS	COOLING	SEER	VOLTS	MCA	BTUH INPUT	E
PKU-I	CARRIER MDL. 48TCEEI4	12.5	109,500 BTU	IO.8 EER	208/3	73	224,000	8
						N	OTES:	

				VRF	EQ	UIPME	NT S	CHE	
ZONE	OUTDOOR HEAT PUMP	NOMINAL TONS	RATED COOLING	RATED HEATING	SEER	0.U. VOLTS	0.U. MCA/ MOP	I.U. NAME	
OHP-I	CARRIER 38MGRQ36D-3	3	45 <i>020</i> BTuH	50350 BTUH	21.5	208/1	35 50	FCU-I	
	PING, CONTROL KI ED FOR A COMPL						TINGS. S.	FCU-2	
(NOTE) VOLTAGE	E SUPPLIED FROM	THE OUTDO	OR UNIT TO TH	IE INDOOR FC	U CASS	ETTES		FCU-3	
								FCU-4	
									-

			TOTAL	HEATING			
380	0	N/A	9000 BTUH	9,500 BTUH	HIGH	208/1	
420	0	N/A	17,000 BTUH	17,5 <i>00</i> BTUH	HIGH	208/1	
320	0	N/A	9000 BTUH	9,500 BTUH	HIGH	208/1	
320	0	N/A	9000 BTUH	9,5 <i>00</i> BTUH	HIGH	208/1	

### ELECTRICAL SPECIFICATIONS

### I. GENERAL

I.I RELATED DOCUMENTS:

A. REQUIREMENTS OF THE GENERAL CONDITIONS, SUPPLEMENTARY GENERAL CONDITIONS, AND SPECIAL

CONDITIONS APPLY TO THIS SECTION. B. ARCHITECTURAL, STRUCTURAL, MECHANICAL AND PLUMBING DRAWINGS AND SPECIFICATIONS. C. KITCHEN, HVAC, AND PLUMBING EQUIPMENT MANUFACTURER GUIDELINES & INSTALLATION INSTRUCTIONS.

### 1.2 WORK INCLUDED:

A. ELECTRICAL SYSTEMS AS SHOWN ON THE DRAWINGS AND AS SPECIFIED HEREIN.
B. PERMITS AND INSPECTIONS REQUIRED FOR WORK.
C. TEMPORARY ELECTRIC FOR SITE DURING CONSTRUCTION AS REQUIRED.
D. COORDINATION OF FINAL SELECTIONS, LOCATIONS, CONNECTIONS, ELECTRICAL CHARACTERISTICS, ETC. OF EQUIPMENT SUPPLIED BY OTHERS ON PROJECT.

### 1.3 JOB CONDITIONS:

A. COORDINATE WITH BUILDING CONSTRUCTION AND WITH OTHER TRADES.
 B. IN CASE OF CONFLICT BETWEEN SPECIFICATIONS AND DRAWINGS, CONSULT ARCHITECT IMMEDIATELY FOR DETERMINATION OF PROCEDURE METHOD.

### **I.4 CONFORMANCE TO REGULATIONS:**

A. WORK SHALL CONFORM WITH 2018 VIRGINIA UNIFORM STATEWIDE BUILDING CODE, NFPA, LOCAL ORDINANCES AND THE RULES AND REGULATIONS OF THE UTILITIES. B. WORK SHALL BE IN ACCORDANCE WITH THE OWNER'S CRITERIA AND REQUIREMENTS

### 1.5 QUALITY ASSURANCE:

A. MEET OR EXCEED RECOMMENDATIONS OF: IEEE, IES, NEMA AND UL. B. NOTIFY ARCHITECT IMMEDIATELY OF CONFLICTS AND DEFICIENCIES. DO NOT PROCEED UNTIL UNSATISFACTORY CONDITIONS HAVE BEEN RESOLVED.

### **I.6 MATERIALS AND EQUIPMENT:**

A. PROVIDE NEW MATERIALS AND EQUIPMENT UNLESS OTHERWISE NOTED.
 B. FURNISH (INCLUDING FREIGHT AND UNLOADING) AND INSTALL UNLESS OTHERWISE NOTED.
 C. EQUIPMENT PROVIDED FOR THIS PROJECT SHALL BE NEW UNLESS NOTED OTHERWISE.

### I.7 SUBMITTALS:

A. SUBMIT SHOP DRAWINGS AND PRODUCT DATA FOR EQUIPMENT IN ACCORDANCE WITH THE ARCHITECT'S REQUIREMENTS B. UPON COMPLETION OF THE INSTALLATION, AND PRIOR TO ACCEPTANCE BY THE OWNER, CONTRACTOR SHALL FURNISH AS-BUILT DOCUMENTATION AND OKM MANUALS IN ACCORDANCE WITH THE ARCHITECT'S REQUIREMENTS. C. PROVIDE WIRING DIAGRAMS SPECIFIC TO THIS PROJECT FOR ALL ROOMS WITH LOW VOLTAGE DEVICES SHOWING INTERCONNECTIONS BETWEEN POWER PACK, SWITCHES, AND OCCUPANCY SENSORS.

### **I.8 PROJECT CLOSEOUT:**

A. REPAIR DAMAGED AND DEFECTIVE EQUIPMENT AND MATERIALS. REPLACE ITEMS THAT CANNOT BE PROPERLY REPAIRED. B. CLEAN EXPOSED AND SEMI-EXPOSED SURFACES OF EQUIPMENT AND MATERIALS.

A. SPLICE CONDUCTORS NO. 10 AND SMALLER WITH STEEL SPRING WIRE CONNECTOR WITH THERMOPLASTIC SHELL, SPLICE CONDUCTORS NO.8 AND LARGER WITH MECHANICAL TYPE, TAP CONNECTORS WITH INSULATED COVERS OR SPLIT BOLTS TAPED TO CONDUCTOR INSULATION VALUE **B.** INSTALL CONDUCTORS IN RACEWAYS. CONDUCTORS SHALL BE CONTINUOUS FROM POINT OF ORIGIN TO PANEL OR EQUIPMENT TERMINATION WITHOUT RUNNING SPLICES IN INTERMEDIATE BOXES. CONDUCTORS OF DIFFERENT VOLTAGES SHALL NOT BE PULLED INTO SAME RACEWAY. C. TOUCH-UP SHOP-APPLIED FINISHES TO RESTORE DAMAGED AND SOILED AREAS. D. INSTRUCT OWNER'S REPRESENTATIVE IN OPERATION AND MAINTENANCE OF ELECTRICAL SYSTEMS UTILIZING THE OPERATION AND MAINTENANCE MANUAL. **C.** CABLE SHALL BE SUPPORTED DIRECTLY FROM THE BUILDING STRUCTURE WITH STAPLES OR ONE-HOLE STRAPS AT INTERVALS REQUIRED BY THE CODE. BORED HOLES SHALL NOT EXCEED I" DIAMETER AND SHALL BE A MINIMUM OF 2'-O" FROM STRUCTURAL BEARING POINTS, NOTCHING OF STRUCTURAL MEMBERS IS PROHIBITED. PROVIDE GUARD STRIPS AT LEAST AS HIGH AS CABLE WHERE RUN ACROSS TOP OF I. INSTRUCTION PERIOD SHALL OCCUR AFTER SUBSTANTIAL COMPLETION OF ELECTRICAL SYSTEMS AND PRIOR TO COMPLETION OF THE PROJECT. COORDINATE WITH THE ARCHITECT AND OWNER. 2. PRODUCTS STRUCTURE IN ACCESSIBLE ATTIC SPACES D. DO NOT RUN ANY WIRE OR CABLE IN PLUMBING WALLS UNTIL PIPING SYSTEMS HAVE BEEN COMPLETED. PLUMBING SHALL PRESIDE IN THESE WALLS.

### 2.1 RACEWAYS AND FITTINGS:

A. CONDUIT SIZES SHALL BE AS REQUIRED BY THE CODE (UNLESS INDICATED OR SPECIFIED OTHERWISE) FOR THE NUMBER AND SIZE OF WIRE INDICATED. MINIMUM SIZE CONDUIT SHALL BE 1/2" ELECTRICAL TRADE SIZE. FLEXIBLE METAL CONDUIT USED FOR LIGHTING FIXTURE WHIPS MAY BE 3/8" WHERE ALLOWED BY THE CODE. B. USE ELECTRICAL METALLIC TUBING EXCEPT AS FOLLOWS. USE RIGID NONMETALLIC CONDUIT IN OR UNDER ON GRADE CONCRETE SLABS. USE FLEXIBLE METAL CONDUIT FOR MOTOR AND EQUIPMENT CONNECTIONS IN DRY LOCATIONS. USE LIQUIDTIGHT FLEXIBLE METAL CONDUIT IN WET OR DAMP LOCATIONS.

### 2.2 WIRE AND CABLE:

A. CONDUCTORS SHALL BE COPPER, MINIMUM SIZE NO. 12 AWG. OTHER WIRE SIZES SHALL BE AS NOTED OR AS REQUIRED FOR THE CIRCUIT SIZE. CONDUCTOR INSULATION SHALL BE THHN/THWN. B. BRANCH CIRCUIT WIRING WHERE CONCEALED IN WALLS AND ABOVE CEILINGS MAY BE TYPE MC (METAL CLAD) CABLE WHERE ALLOWED BY THE CODE.

### 2.3 BOXES:

A. GALVANIZED SHEET STEEL TYPE. SINGLE DEVICE BOX SHALL BE "NON-GANGABLE" TYPE AND FOR MULTIPLE DEVICES "GANGABLE" TYPE SHALL BE USED. BOXES FOR EXPOSED WORK SHALL BE 4" SQUARE TYPE. BOXES FOR EXPOSED WORK IN WET LOCATIONS SHALL BE DIE CAST TYPE WITH THREADED HUBS. SECTIONAL BOXES SHALL NOT BE USED IN MASONRY OR CONCRETE. SIZED FOR NUMBER OF CONDUCTORS, FITTINGS AND DEVICES AS REQUIRED BY THE CODE.

### 2.4 WIRING DEVICES:

A. 20 AMPERE SPECIFICATION GRADE. **B.** COVERPLATES SHALL BE AS FOLLOWS: INTERIOR RECESSED - SMOOTH UNBREAKABLE NYLON; SURFACE -4" SQUARE RAISED COVER. GALVANIZED; WEATHERPROOF - DIE CAST ALUMINUM, GFCI TYPE, WATERTIGHT WHILE IN USE TYPE, USE EXTERNAL OPERATING TYPE FOR WEATHERPROOF SWITCHES. **C.** DEVICE AND PLATE COLOR SHALL BE AS SELECTED BY ARCHITECT.

D. GFCI OUTLETS TO BE SELF-TESTING TYPE.

### 2.5 DISCONNECT SWITCHES:

A. SAME MANUFACTURER AS THE PANELBOARDS. NEMA 3R FOR OUTDOOR USE **B.** DISCONNECT SWITCHES SHALL BE FUSED OR NON-FUSED AS INDICATED AND BE VISIBLE BLADE TYPE WITH EXTERNAL OPERATING HANDLE AND COVER INTERLOCK AND PAD LOCKING. **C.** ALL LABELING ON EXTERIOR DISCONNECT SWITCHES SHALL BE UV RESISTANT.

### 2.6 PANELBOARDS:

A. NEW PANELBOARDS SHALL BE AS SCHEDULED OR BY: SQUARE-D, CUTLER HAMMER, GENERAL ELECTRIC OR SIEMENS. PANELS TO HAVE MINIMUM 20" WIDE CABINETS AND COPPER BUS BARS. B. CIRCUIT BREAKERS SHALL BE THERMAL-MAGNETIC, MOLDED CASE, BOLT-ON TYPE. MULTI-POLE SHALL BE COMMON TRIP TYPE, BREAKERS FOR HVAC EQUIPMENT SHALL BE "HACR" RATED WHERE REQUIRED.
C. NEW PANELBOARDS SHALL HAVE LOCKABLE DOORS, LOCKS SHALL BE KEYED ALIKE.
D. NEW PANELBOARDS SHALL BE FULLY RATED OR HAVE A UL LISTED SERIES CONNECTED RATING

MATCHING EXISTING EQUIPMENT E. NEW BREAKERS FOR EXISTING PANELBOARDS SHALL BE OF THE SAME MANUFACTURER AND AIC RATINGS AS THE EXISTING, UPDATE PANEL DIRECTORIES TO INDICATE CHANGES IN BRANCH CIRCUIT WORK, LEAVE SPARE BREAKERS IN "OFF" POSITION. F. PROVIDE & INSTALL ALL BREAKER FRAMES, COVERS, LUGS, ETC. AS REQUIRED FOR ADDING NEW BREAKERS TO EXISTING PANELS.

### 2.1 ELECTRIC SERVICE:

A. EXISTING SERVICE IS 120/208 VOLT, 3 PHASE, 4 WIRE.

2.8 DRIVERS AND ACCESSORIES:

A. LED DRIVERS SHALL BE ELECTRONIC TYPE WITH EQUAL TO OR LESS THAN 10% THD AND A 3 YEAR WARRANTY, VOLTAGE TO MATCH SYSTEM VOLTAGE.
B. ACCESSORIES SHALL INCLUDE BUT NOT BE LIMITED TO THE FOLLOWING FOR A COMPLETE LIGHTING FIXTURE INSTALLATION: PLASTER FRAMES, TEE BAR HANGERS, FIXTURE STUDS AND HOLD DOWN CLIPS FOR SUSPENDED CELLING. SUSPENDED CEILINGS.

### 2.9 LIGHTING FIXTURES:

A. LIGHTING FIXTURES SHALL BE AS SPECIFIED ON THE DRAWINGS. B. PHOTOCELLS: SWIVEL MOUNT, 1800 WATT, TORK SERIES 2020 OR EQUAL.

2.10 EMPTY CONDUIT SYSTEMS:

A. PROVIDE FOR USE BY THE OWNER'S CABLING CONTRACTOR. CONDUIT SYSTEM SHALL BE AS DESCRIBED ON THE DRAWINGS FOR DATA, TELEPHONE, TELEVISION, SOUND, SECURITY, ETC.

### 3. EXECUTION

### 3.1 RACEWAYS AND FITTINGS:

A. INSTALL CONDUITS CONCEALED IN WALLS, CEILINGS OR FLOORS UNLESS INDICATED OR SPECIFIED OTHERWISE, CONDUITS MAY BE INSTALLED EXPOSED IN UNFINISHED AREAS (IE: EQUIPMENT ROOMS). INSTALL EXPOSED CONDUITS IN RUNS PARALLEL OR PERPENDICULAR TO WALLS STRUCTURAL MEMBERS, OR INTERSECTIONS OF VERTICAL PLANES OR CEILINGS. EXPOSED AND CONCEALED CONDUITS SHALL PASS THROUGH WALLS, FLOORS AT CEILINGS AT RIGHT ANGLES. UNDERGROUND CONDUITS SHALL HAVE BURY DEPTH AS REQUIRED BY THE CODE B. INSURE THAT CONDUITS ARE IN ALIGNMENT BETWEEN BENDS, ELBOWS AND TERMINATIONS; THAT BENDS ARE FREE OF CRIMPS, THAT JOINTS AND TERMINATIONS ARE TIGHT AND SECURE; THAT INTERIORS ARE SMOOTH AND FREE OF BURRS AND FOREIGN OBJECTS; AND THAT INTERIORS ARE FULL SIZE ENTIRE LENGTH.

DURING CONSTRUCTION. CLOSE ENDS OF CONDUITS WITH METAL OR PLASTIC CAPS INTENDED FOR THE PURPOSE **C.** FIELD BENDING OF CONDUITS AND TUBING SHALL BE MADE WITH HAND OR POWERED EQUIPMENT APPROVED FOR THE PURPOSE. USE OF TORCHES TO BEND NONMETALLIC CONDUIT IS NOT APPROVED. RADIUS OF BENDS SHALL BE AS PER THE CODE FOR TYPE OF CONDUIT AND TUBING USED. CONDUITS PASSING THROUGH A FIRE RATED WALL OR FLOOR SHALL NOT LESSEN THE RATING OF THE STRUCTURE

THROUGH WHICH THEY PASS. FINAL INSTALLATION OF CONDUITS PENETRATING WATERPROOF CONSTRUCTION SHALL BE COMPLETELY WATERTIGHT. D. SLEEVE CONDUITS PASSING THROUGH CONCRETE FLOOR SLABS AND CONCRETE, MASONRY, TILE AND GYPSUM WALLS,

**E.** CONDUIT SHALL BE SUPPORTED DIRECTLY FROM THE STRUCTURE AT INTERVALS REQUIRED BY THE CODE. USE STANDARD CONDUIT HANGERS, ONE HOLE SNAP STRAPS, THIN WALL CONDUIT CLAMPS, MALLEABLE IRON PIPE STRAPS, STRUT CHANNEL, BEAM CLAMPS, U-BOLTS AND ALL-THREAD RODS. DO NOT USE WIRE TIES, STAB-ON CLIPS OR PERFORATED STRAP IRON. F. PAINT ANY EXPOSED CONDUITS NOT WITHIN UTILITY ROOMS TO MATCH SURROUNDINGS

### 3.2 WIRE AND CABLE:

E, DO NOT SHARE NEUTRAL CONDUCTORS FOR 120 VOLT CIRCUITS. F. COLOR CODE CONDUCTORS TO INDUSTRY STANDARDS. G. INCREASE WIRE SIZES AS REQUIRED TO COMPENSATE FOR VOLTAGE DROP BASED ON FEEDER/BRANCH

CIRCUIT LENGTH.

### 3.3 BOXES:

A. SECURE BOXES TO STRUCTURE BY MEANS OF SCREWS, BOLTS, ROD HANGERS OR OTHER APPROVED MEANS. RACEWAYS ENTERING OR LEAVING BOX SHALL NOT BE USED AS SUPPORT. BOXES SHALL MEANS. RACEWAYS ENTERING OR LEAVING BOX SHALL NOT BE USED AS SUPPORT. BOXES SHALL BE LEVEL AND PLUMB. BOXES FOR FLUSH EQUIPMENT SHALL BE PLACED TO WITHIN 1/4" OF THE FINISHED SURFACE, PROVIDE EXTENSIONS OR PLASTER RINGS AS REQUIRED. JUNCTION AND PULL BOXES SHALL BE INSTALLED READILY ACCESSIBLE, UNOBSTRUCTED BY PIPING, DUCTS OR OTHER EQUIPMENT. B. BOXES SHALL BE MOUNTED AT HEIGHT INDICATED ON THE DRAWINGS OR DIRECTLY ADJACENT TO PIECE OF EQUIPMENT SERVED. SEAL SPARE OR UNUSED OPENINGS IN BOXES WITH APPROVED FITTINGS. FOR BOXES INSTALLED IN WET LOCATIONS PROVIDE CLEAR SILICONE CAULK BETWEEN BOX AND SURROUNDING SURFACE TO PREVENT WATER ENTRY SURFACE TO PREVENT WATER ENTRY. C. BOXES IN RATED CONSTRUCTION SHALL BE SUITABLE FOR THE USE AND INSTALLED IN ACCORDANCE WITH THE CODE.

### 3.4 WIRING DEVICES:

A. INSTALL DEVICES APPROXIMATELY AT THE LOCATIONS INDICATED ON THE DRAWINGS. DETERMINE EXACT LOCATION BY CONDITIONS OF CONSTRUCTION. COORDINATE LOCATIONS TO AVOID CONFLICT WITH OTHER EQUIPMENT BEING INSTALLED. INSTALL DEVICES STRAIGHT AND SOLID TO BOX. MOUNTING HEIGHTS OF WALL OUTLETS SHALL BE AS INDICATED ON THE DRAWINGS AND SHALL BE MEASURED FROM THE FINISHED FLOOR TO THE CENTER OF THE OUTLET. WHERE DEVICES ARE SHOWN GROUPED TOGETHER, PROVIDE A SINGLE, MULTIPLE GANG PLATE

B. COORDINATE PLACEMENT IN AND AROUND KNEE SPACES, LAVATORIES AND OTHER EQUIPMENT TO AVOID CONFLICTS WITH MIRRORS AND OTHER APPURTENANCES, REFER TO ARCHITECTURAL DRAWINGS. SWITCHES SHALL BE LOCATED TO STRIKE SIDE OF THE DOOR, VERIFY FINAL DOOR SWINGS. C. WHERE GECL OUTLETS ARE USED TO PROVIDE FEED-THRU PROTECTION FOR DOWNSTREAM OUTLETS ON SAME CIRCUIT, DO NOT FEED-THRU WIRE ACROSS PARTITIONS, USE A SEPARATE DEVICE. D. VERIFY THE NEMA CONFIGURATIONS OF ALL OUTLETS WITH OWNER.

E, LABEL COVERPLATES WITH PANEL AND CIRCUIT NUMBER FOR DEVICES EXCEPT WALL SWITCHES.

### 3.5 DISCONNECT SWITCHES:

A. MOUNT SWITCHES ON WALL OR AT ASSOCIATED PIECE OF EQUIPMENT. WALL MOUNTED SWITCHES SHALL BE 48 INCHES ABOVE FINISHED FLOOR. PROVIDE ENGRAVED PLASTIC LAMINATE NAMEPLATE FOR EACH DISCONNECT SWITCH LOCATED ON FRONT OUTSIDE COVER, NAMEPLATE SHALL INDICATE ITEM SERVED. B. SWITCHES SCHEDULED ARE FOR DESIGN BASED EQUIPMENT, REVIEW OTHER TRADES' SUBMITTALS TO DETERMINE IF SUBSTITUTIONS HAVE BEEN MADE, PROVIDE SWITCH TO MATCH EQUIPMENT SUPPLIED.

### 3.6 GROUNDING:

A. CONDUIT SYSTEM SHALL NOT BE USED FOR GROUNDING.

### 3.1 PANELBOARDS:

A. NEATLY PRINT CIRCUIT DESIGNATIONS ON DIRECTORY CARD. NOTATIONS SHALL INDICATE THE NATURE AND LOCATION OF LOADS SERVED. DO NOT USE A PERMANENT MARKER TO LABEL CIRCUIT DESIGNATIONS ON PANEL HOUSING **B.** PROVIDE ENGRAVED LAMINATE NAMEPLATE FOR EACH NEW PANELBOARD LOCATED ON OUTSIDE OF DOOR. NAMEPLATE SHALL INCLUDE PANELBOARD DESIGNATION ON THE DRAWINGS, SERVICE VOLTAGE, PHASE AND AMPERAGE. C. BREAKERS SCHEDULED ARE FOR DESIGN BASED EQUIPMENT, REVIEW OTHER TRADES' SUBMITTALS TO DETERMINE IF SUBSTITUTIONS HAVE BEEN MADE. PROVIDE BREAKERS TO MATCH EQUIPMENT SUPPLIED.

### 3.8 LAMPS:

A. PERMANENT LAMPS SHALL NOT BE USED AS TEMPORARY LIGHTING DURING CONSTRUCTION, IF FIXTURES ARE TO BE USED, TEMPORARY LAMPS SHALL BE PROVIDED AND PERMANENT LAMPS SHALL NOT BE INSTALLED UNTIL TIME OF OWNER'S ACCEPTANCE OF BUILDING. 3.9 LIGHTING FIXTURES:

A. INSTALLATION OF FIXTURES SHALL BE IN A NEAT, WORKMANLIKE MANNER. PROVIDE STRAPS, SUPPORTS, HANGERS AND OTHER MATERIALS REQUIRED FOR PROPER INSTALLATION. B. SURFACE MOUNTED FIXTURES SHALL NOT HAVE GAPS BETWEEN THE FIXTURE AND ATTACHING SURFACE. UNLESS MOUNTING IS DESIGNED TO HOLD FIXTURE OFF CEILING, OR EXCEPT WHERE REQUIRED BY THE CODE REGULATION. CONTINUOUS ROWS OF FIXTURES SHALL BE INSTALLED SO AS TO PROVIDE PERFECT ALIGNMENT **C.** SUPPORT SURFACE MOUNTED FIXTURES DIRECTLY FROM THE BUILDING STRUCTURE AND NOT FROM THE CEILING GRID SYSTEM. USE ALL-THREAD RODS, BEAM CLAMPS, PIPE CLAMPS AND PIPE OR PERFORATED STEEL CHANNEL FOR SUPPORT. WIRE TIES AND STAB-ON CLIPS WILL NOT BE ACCEPTED. THE SUPPORT ASSEMBLY SHALL BE CAPABLE OF SUPPORTING 150 POUNDS IN ADDITION TO THE FIXTURE WEIGHT INDEFINITELY D. RECESSED FIXTURES SHALL NOT HAVE GAPS BETWEEN THE FIXTURE TRIM AND ADJACENT SURFACE. WHERE LIGHT LEAKS OCCUR, SUITABLE GASKETS SHALL BE INSTALLED. E. RECESSED LIGHTING FIXTURES INSTALLED IN MODULAR OR INTEGRATED CEILINGS SHALL BE OF THE PROPER TYPE FOR THE TYPE OF CEILING BEING INSTALLED. VERIFY TYPE OF CONSTRUCTION PRIOR TO ORDERING OF FIXTURES. ADDITIONAL CEILING TIES SHALL BE INSTALLED AT EACH CORNER OF THE LIGHTING FIXTURE TO REINFORCE THE CEILING SYSTEM. F. CONNECT EXIT AND EMERGENCY LIGHTING FIXTURES TO BRANCH CIRCUIT SERVING NORMAL LIGHTING IN AREA AHEAD OF LOCAL SWITCHING

G. PHOTOCELLS SHALL BE LOCATED IN AN ACCESSIBLE LOCATION EITHER BELOW SOFFIT OR ABOVE ROOF

LINE FACING NORTH, DO NOT ATTACH PHOTOCELLS ON FACE OF BUILDING. 3.10 EMPTY CONDUIT SYSTEMS:

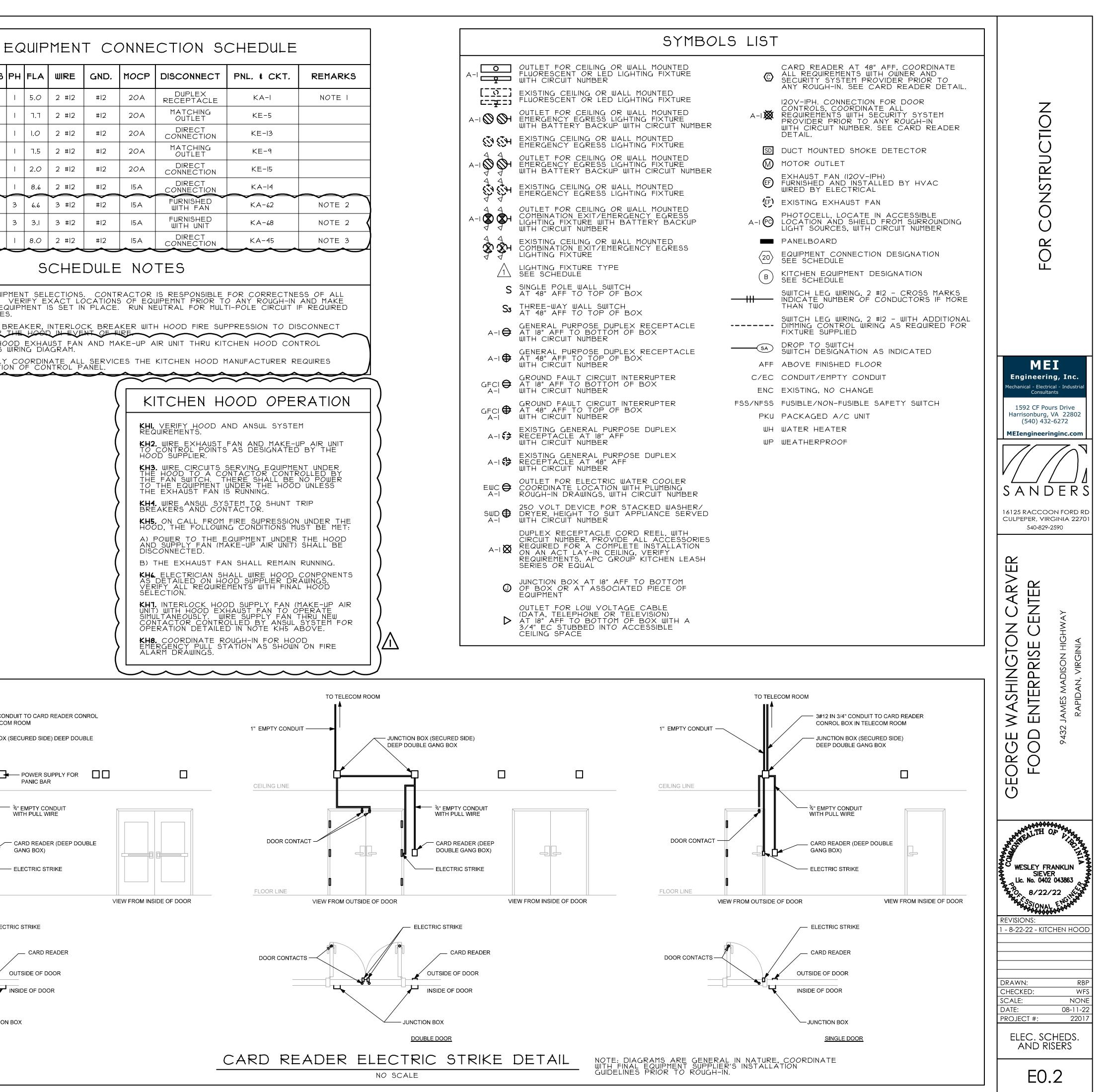
A. LEAVE CONDUITS WITH PULL CORDS. AT COMPLETION OF THE PROJECT, PROVIDE BLANK COVERPLATES FOR ANY OUTLET BOXES NOT UTILIZED AND LEFT SPARE BY THE OWNER'S CABLING CONTRACTOR. B. PAINT ALL SIDES AND EDGES OF EQUIPMENT SPACE WITH 2 COATS OF GRAY ENAMEL PAINT PRIOR TO INSTALLATION. C. COORDINATE WITH THE UTILITIES SELECTED BY THE OWNER AND PROVIDE ALL MEANS REQUIRED FOR SERVICES TO THE BUILDING.

3.11 DEMOLITION:

A. REFER TO ARCHITECTURAL DRAWINGS AND OWNER FOR EXACT EXTENT OF DEMOLITION **B.** REMOVE ITEMS AS REQUIRED TO CLEAR AREAS OF NEW CONSTRUCTION. COORDINATE WITH OTHER TRADES FOR EQUIPMENT THAT MAY REQUIRE ELECTRIC CONNECTIONS TO BE DEMOLISHED. **C.** CONDUCTORS SHALL BE REMOVED FULLY FROM OUTLET BOX BACK TO NEAREST JUNCTION POINT, CONDUITS AND BOXES SHALL BE REMOVED WHERE EXPOSED AND CAN BE ABANDONED WHERE CONCEALED. LEAVE BOXES WITH BLANK COVERPLATES. D. CONDUITS, OUTLET, JUNCTION AND PULL BOXES MAY BE REUSED WHERE PRACTICAL. E. ELECTRICAL WORK BEING REMOVED SHALL REMAIN THE PROPERTY OF THE OWNER AND SHALL BE STORED OR REMOVED FROM THE SITE AS DIRECTED. F. ITEMS DISTURBED BY WORK UNDER THIS CONTRACT SHALL BE RESTORED TO THE ORIGINAL OPERATING CONDITION. G. WHERE ITEMS ARE TO BE RELOCATED, USE CARE IN REMOVAL AND PROTECT UNTIL REINSTALLED. CLEAN SURFACES OF EQUIPMENT PRIOR TO REINSTALLATION. H. CONTRACTOR IS RESPONSIBLE FOR ALL REQUIRED DEMOLITION AND SHALL FIELD VERIFY REQUIREMENTS PRIOR TO BID. I. MAINTAIN CONTINUITY TO REMAINING DEVICES AND FIXTURES ON ALTERED CIRCUITS AS REQUIRED.

FOR CONSTRUCTION	
ME Engineerin Mechanical - Electric Consultar 1592 CF Pou Harrisonburg, N (540) 432- MEIengineerin S A N D 16125 RACCOC CULPEPER, VIRC 540-829-2	ng, Inc. rs Drive VA 22802 -6272 nginc.com E R S ON FORD RD GINIA 22701
GEORGE WASHINGTON CARVER FOOD ENTERPRISE CENTER	9432 JAMES MADISON HIGHWAY RAPIDAN, VIRGINIA
SIEVE	043863
DRAWN: CHECKED: SCALE: DATE: PROJECT #: ELECTRI SPECIFICA	RBP WFS NONE 8-11-22 22017 CAL ATIONS
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	<b>Lighting Com</b>	pliance Certi	ficate			DESCRIPTION	
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Project Information	2018 IECC				<u>A)</u>	GAS STOVE	
Project Title: Project Type:	George Washington Carver Food New Construction	d Enterprise Center			NA)	WALK-IN COOLER CAPSULE PAK	
Construction Site: 9432 James Madison Highway	Owner/Agent:	Designer/Contractor: R.B. Propst			NB	WALK-IN COOLER DOOR/LIGHT	
Rapidan, VA Additional Efficiency Package(s	5)	MEI Engineering, 1592 CF Pours Dr Harrisonburg, VA	ive		OA)	WALK-IN FREEZER CAPSULE PAK	2
		540-432-6272		(	ОВ	WALK-IN FREEZER DOOR/LIGHT	2
Credits: 1.0 Required 1.0 Proposed Reduced Lighting Power, 1.0 credit Allowed Interior Lighting Power	r			(	<b>Q</b>	ICE MACHINE	
	A Category	B C Floor Area Allow			KH1)	KITCHEN HOOD EXHAUST FAN	
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Proposed Interior Lighting Pow	er	Total Allowed		(e	кнз	KITCHEN HOOD CONTROL PANEL	
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		Total Pro	26 26 posed Watts = 2386		F	INAL CONNECTIONS	37
Interior Lighting PASSES: Desi Interior Lighting Compliance St	tatement					UN CIRCUIT TO SH	IUN
Compliance Statement: The propose specifications, and other calculations designed to meet the 2018 IECC require requirements listed in the Increase	submitted with this permit applicat uirements in COM <i>check</i> Version 4.1.	ion. The proposed interior lightin	g systems have been		2. W P	IRE CIRCUIT FOR K ANEL, SEE MANUFA	<it AC</it 
requirements listed in the Inspection <b>R.B. PROPST</b> Name - Title	Eigenturg		<b>8-11-22</b>		3. C F	ONTRACTOR SHAL	L INS
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Project Title: George Washington ( Data filename: M:\Current\2022\220	Carver Food Enterprise Center 17\22017 Ltg.cck		Report date: 07/28/2 Page 1 of				
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Exterior Lighting Power Entry canopy Entry canopy (21 ft2): Tradable Watta LED 1: Type 6: Surface Drum: LED Ott Entry canopy (21 ft2): Tradable Watta LED 2: Type 6: Surface Drum: LED Ott Entry canopy (21 ft2): Tradable Watta LED 3: Type 6: Surface Drum: LED Ott Entry canopy (21 ft2): Tradable Watta LED 3: Type 6: Surface Drum: LED Ott Exterior Lighting Compliance S Compliance Statement: The proposes specifications, and other calculations designed to meet the 2018 IECC requirements listed in the Inspection	2018 IECC         George Washington Carver Food         New Construction         2 (Neighborhood business distriction         Owner/Agent:         intro intervention         between tradable areas/surfaces.         400 watts may be applied toward complition         ver         A         / Lamp / Wattage Per Lamp / Balla         age         her Fixture Unit 13W:         age         her Keterior lighting design represents         a submitted with this permit applicat         uirements in COMcheck Version 4.1.         Checklist.	B       C       Designer/Contractor: R.B. Propst MEI Engineering, 1592 CF Pours Dr Harrisonburg, VA 540-432-6272         B       C       D         Bantity       Allowed Watts / Unit       Tradate Wattage         21 ft2       0.25       Yes         23 ft2       0.25       Yes         Catal Allowed Supplemental Watts ( Total Allowed Supplemental Watts ( ance of both non-tradable and tradate         st       B       C Lamps/ Fixture       Total Fixture         1       1       1         1       1       1         1       1       1         1       1       1         1       1       1         1       1       1         1       1       1         1       1       1         1       1       1         1       1       1         1       1       1         1       1       1         1       1       1         1       1       1         1       1       1         1       1       1         1       1       1	Inc. ive 22802 $fige \frac{E}{Allowed Watts}}{(B X C)}$ $fige \frac{5}{6}$ fig = 16 fis = 16 fis = 16 fis = 16 fis = 16 fis = 12 fis = 1		CEILING		— 3 В
Exterior Lighting Power (a) Wattage tradeoffs are only allowed (b) A supplemental allowance equal to Proposed Exterior Lighting Power (a) Wattage tradeoffs are only allowed (b) A supplemental allowance equal to Proposed Exterior Lighting Power (b) A supplemental allowance equal to Proposed Exterior Lighting Power (c) Wattage tradeoffs are only allowed (c) A supplemental allowance equal to Proposed Exterior Lighting Power Entry canopy Entry canopy (21 ft2): Tradable Watta LED 1: Type 6: Surface Drum: LED Off Entry canopy (21 ft2): Tradable Watta LED 2: Type 6: Surface Drum: LED Off Entry canopy (21 ft2): Tradable Watta LED 3: Type 6: Surface Drum: LED Off Entry canopy (21 ft2): Tradable Watta LED 3: Type 6: Surface Drum: LED Off Exterior Lighting PASSES: Des Exterior Lighting Compliance S Compliance Statement: The propose specifications, and other calculations designed to meet the 2018 IECC req	2018 IECC         George Washington Carver Food         New Construction         2 (Neighborhood business distriction         Owner/Agent:         owner/Agent:         between tradable areas/surfaces.         400 watts may be applied toward complition         ver         A         / Lamp / Wattage Per Lamp / Balla         age         her Fixture Unit 13W:         her Fixture Unit 13W:	B       C       Designer/Contractor: R.B. Propst MEI Engineering, 1592 CF Pours Dr Harrisonburg, VA 540-432-6272         B       C       D         Bantity       Allowed Watts / Unit       Tradate Wattage         21 ft2       0.25       Yes         23 ft2       0.25       Yes         Catal Allowed Supplemental Watts ( Total Allowed Supplemental Watts ( ance of both non-tradable and tradate         st       B       C Lamps/ Fixture       Total Fixture         1       1       1         1       1       1         1       1       1         1       1       1         1       1       1         1       1       1         1       1       1         1       1       1         1       1       1         1       1       1         1       1       1         1       1       1         1       1       1         1       1       1         1       1       1         1       1       1         1       1       1	Inc. ive 22802 De Allowed Watts ge $(B \times C)$ 5 6 5 (a) = 16 tts = 16 (b) = 400 We areas/surfaces. D E J Vatt. 12 12 12 12 13		CEILING		— 3 В
Exterior Lighting Power Froposed Exterior Lighting Power (a) Wattage tradeoffs are only allowed (b) A supplemental allowance equal to Proposed Exterior Lighting Power (a) Wattage tradeoffs are only allowed (b) A supplemental allowance equal to Proposed Exterior Lighting Power (b) A supplemental allowance equal to Proposed Exterior Lighting Power Entry canopy Entry canopy (c) Wattage tradeoffs are only allowed (b) A supplemental allowance equal to Proposed Exterior Lighting Power Exterior Lighting Power Exterior Lighting Compliance S Compliance Statement: The propose specifications, and other calculations designed to meet the 2018 IECC require requirements listed in the Inspection R.B. PROPST NAME Project Title: George Washington (C)	2018 IECC         George Washington Carver Food         New Construction         2 (Neighborhood business distriction         Owner/Agent:         er         my       QL         between tradable areas/surfaces.         400 watts may be applied toward complitiver         A         / Lamp / Wattage Per Lamp / Balla         age         her Fixture Unit 13W:         Bige         her Fixture Unit 13W:         age         her Fixture Unit 13W:         age         her Fixture Unit 13W:         Bige         her Fixture Unit 13W:         age         her Fixture Unit 13W:         Bige         her Fixture Unit 13W:         Bige         her Fixture Unit 13W:         Bige         her Fixture Unit 13W:         Carter Food Enterprise Center	B       C       Designer/Contractor: R.B. Propst MEI Engineering, 1592 CF Pours Dr Harrisonburg, VA 540-432-6272         B       C       D         Bantity       Allowed Watts / Unit       Tradate Wattage         21 ft2       0.25       Yes         23 ft2       0.25       Yes         Catal Allowed Supplemental Watts ( Total Allowed Supplemental Watts ( ance of both non-tradable and tradate         st       B       C Lamps/ Fixture       Total Fixture         1       1       1         1       1       1         1       1       1         1       1       1         1       1       1         1       1       1         1       1       1         1       1       1         1       1       1         1       1       1         1       1       1         1       1       1         1       1       1         1       1       1         1       1       1         1       1       1         1       1       1	Inc. ive 22802 ble Allowed Watts $(B \times C)$ 5 6 5 6 5 6 5 6 5 6 5 6 6 5 6 7 6 7 6 7 7 7 7		CEILING		
Exterior Lighting Power Froposed Exterior Lighting Power (a) Wattage tradeoffs are only allowed (b) A supplemental allowance equal to Proposed Exterior Lighting Power (a) Wattage tradeoffs are only allowed (b) A supplemental allowance equal to Proposed Exterior Lighting Power (b) A supplemental allowance equal to Proposed Exterior Lighting Power Entry canopy Entry canopy (c) Wattage tradeoffs are only allowed (b) A supplemental allowance equal to Proposed Exterior Lighting Power Exterior Lighting Power Entry canopy (21 ft2): Tradable Watta LED 1: Type 6: Surface Drum: LED Off Entry canopy (21 ft2): Tradable Watta LED 2: Type 6: Surface Drum: LED Off Entry canopy (21 ft2): Tradable Watta LED 3: Type 6: Surface Drum: LED Off Exterior Lighting Posses: Dess Exterior Lighting Compliance S Compliance Statement: The propose specifications, and other calculations designed to meet the 2018 IECC requirements listed in the Inspection R.B. PROPST NAME Project Title: George Washington (C)	2018 IECC         George Washington Carver Food         New Construction         2 (Neighborhood business distriction         Owner/Agent:         er         my       QL         between tradable areas/surfaces.         400 watts may be applied toward complitiver         A         / Lamp / Wattage Per Lamp / Balla         age         her Fixture Unit 13W:         Bige         her Fixture Unit 13W:         age         her Fixture Unit 13W:         age         her Fixture Unit 13W:         Bige         her Fixture Unit 13W:         age         her Fixture Unit 13W:         Bige         her Fixture Unit 13W:         Bige         her Fixture Unit 13W:         Bige         her Fixture Unit 13W:         Carter Food Enterprise Center	B       C       Designer/Contractor: R.B. Propst MEI Engineering, 1592 CF Pours Dr Harrisonburg, VA 540-432-6272         B       C       D         Bantity       Allowed Watts / Unit       Tradate Wattage         21 ft2       0.25       Yes         23 ft2       0.25       Yes         Catal Allowed Supplemental Watts ( Total Allowed Supplemental Watts ( ance of both non-tradable and tradate         st       B       C Lamps/ Fixture       Total Fixture         1       1       1         1       1       1         1       1       1         1       1       1         1       1       1         1       1       1         1       1       1         1       1       1         1       1       1         1       1       1         1       1       1         1       1       1         1       1       1         1       1       1         1       1       1         1       1       1         1       1       1	Inc. ive 22802 ble $E$ Allowed Watts $(B \times C)$ $5$ $6$ $5$ $3$ $2$ $3$ $3$ $3$ $3$ $3$ $3$ $3$ $3$ $3$ $3$		CONTAC		
Exterior Lighting Power Froposed Exterior Lighting Power Entry canopy Entry canopy (21 ft2): Tradable Watta LED 1: Type 6: Surface Drum: LED Off Entry canopy (21 ft2): Tradable Watta LED 2: Type 6: Surface Drum: LED off Entry canopy (21 ft2): Tradable Watta LED 2: Type 6: Surface Drum: LED off Entry canopy (21 ft2): Tradable Watta LED 3: Type 6: Surface Drum: LED off Exterior Lighting Compliance S Compliance Statement: The propose specifications, and other calculations designed to meet the 2018 IECC requirements listed in the Inspection <b>R.B. PROPST</b> <b>NAME</b>	2018 IECC         George Washington Carver Food         New Construction         2 (Neighborhood business distriction         Owner/Agent:         er         my       QL         between tradable areas/surfaces.         400 watts may be applied toward complitiver         A         / Lamp / Wattage Per Lamp / Balla         age         her Fixture Unit 13W:         Bige         her Fixture Unit 13W:         age         her Fixture Unit 13W:         age         her Fixture Unit 13W:         Bige         her Fixture Unit 13W:         age         her Fixture Unit 13W:         Bige         her Fixture Unit 13W:         Bige         her Fixture Unit 13W:         Bige         her Fixture Unit 13W:         Carter Food Enterprise Center	B       C       Designer/Contractor: R.B. Propst MEI Engineering, 1592 CF Pours Dr Harrisonburg, VA 540-432-6272         B       C       D         Bantity       Allowed Watts / Unit       Tradate Wattage         21 ft2       0.25       Yes         23 ft2       0.25       Yes         Catal Allowed Supplemental Watts ( Total Allowed Supplemental Watts ( ance of both non-tradable and tradate         st       B       C Lamps/ Fixture       Total Fixture         1       1       1         1       1       1         1       1       1         1       1       1         1       1       1         1       1       1         1       1       1         1       1       1         1       1       1         1       1       1         1       1       1         1       1       1         1       1       1         1       1       1         1       1       1         1       1       1         1       1       1	Inc. ive 22802 ble $E$ Allowed Watts $(B \times C)$ $5$ $6$ $5$ $3$ $2$ $3$ $3$ $3$ $3$ $3$ $3$ $3$ $3$ $3$ $3$	- C	CONTAC		— 3 — JI — J



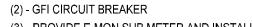
- JUNCTION BOX

DLTS: 120/20 MPS: 400 BRKR 20 20 20 20 20 20 20 20 20 20	DESCRIPTION GAS STOVE (1)(2) SHUNT TRIP FUT. GAS KETTLES (1) SHUNT TRIP IT. GAS BRAISING PAN (1)(2) SHUNT TRIP CORD REELS (2) CORD REELS (2) CORD REELS (2) CORD REELS (2)	AMPS 5.0 0.0 10.0 9.6 5.0 0.0 3.0 3.0	JGS ONLY CIRCUIT DEMAND 65% 100% 65% 100% 100%	NO. 1 3 5 7 9 11	1	PANE	WIRES: 4	NO. 2 4	CIRCUIT DEMAND 100% 100%	<b>AMPS</b> 10.0	MOUNTING: SURFACE DESCRIPTION WTR. FILTRATION SYS.	BRKR A P	VOLTS: 12 AMPS: 400 BRKR		PHASE: 3 MAIN: LU	IGS ONLY CIRCUIT	9			WIRES: 4	NO.	CIRCUIT	AMPS	MOUNTING: SURFACE DESCRIPTION	BR
BRKR       20	DESCRIPTION GAS STOVE (1)(2) SHUNT TRIP FUT. GAS KETTLES (1) SHUNT TRIP T. GAS BRAISING PAN (1)(2) SHUNT TRIP CORD REELS (2) CORD REELS (2) CORD REELS (2) CORD REELS (2)	AMPS 5.0 0.0 10.0 9.6 5.0 0.0 3.0 3.0	CIRCUIT DEMAND 65% 100% 65% 100% 100%	1 3 5 7 9 11	<b>A</b> 13.3	<b>B</b> 10.0	С	NO. 2 4	<b>DEMAND</b> 100%	10.0			BRKR			CIRCUIT		PI	n n		NO.		AMPS	DESCRIPTION	BF
A           20	GAS STOVE (1)(2) SHUNT TRIP FUT. GAS KETTLES (1) SHUNT TRIP IT. GAS BRAISING PAN (1)(2) SHUNT TRIP CORD REELS (2) CORD REELS (2) CORD REELS (2) CORD REELS (2)	5.0 0.0 10.0 9.6 5.0 0.0 3.0 3.0	DEMAND           65%           100%           65%           100%           65%           100%           6100%           100%	1 3 5 7 9 11	<b>A</b> 13.3	<b>B</b> 10.0	С	NO. 2 4	<b>DEMAND</b> 100%	10.0				DESCRIPTION					n n		NO.		AMPS	DESCRIPTION	
20 20 20 20 20 20 20 20 20 20 20 20 20 2	SHUNT TRIP FUT. GAS KETTLES (1) SHUNT TRIP IT. GAS BRAISING PAN (1)(2) SHUNT TRIP CORD REELS (2) CORD REELS (2) CORD REELS (2) CORD REELS (2)	5.0 0.0 10.0 9.6 5.0 0.0 3.0 3.0	65% 100% 65% 100% 65% 100%	1 3 5 7 9 11		10.0		NO. 2 4	100%	10.0			P A		I AMPS	DEMAND	NO.		וועו	. <del>.</del> .					
 20 20 FU 20 FU 20 20 20 20 20 20 20 20	SHUNT TRIP FUT. GAS KETTLES (1) SHUNT TRIP IT. GAS BRAISING PAN (1)(2) SHUNT TRIP CORD REELS (2) CORD REELS (2) CORD REELS (2) CORD REELS (2)	0.0 10.0 9.6 5.0 0.0 3.0 3.0	100% 65% 100% 65% 100% 100%				35.5	2 4	Ĩ.					FUT.CONVECTION OVEN (1	) 9.6	65%	1	53.8			2	100%	47.6	FUT. DISHWASHER	60
20  20 FU  20 20 20 20 20 20 20	FUT. GAS KETTLES (1) SHUNT TRIP T. GAS BRAISING PAN (1)(2) SHUNT TRIP CORD REELS (2) CORD REELS (2) CORD REELS (2) CORD REELS (2)	10.0 9.6 5.0 0.0 3.0 3.0	65% 100% 65% 100% 100%		38.6		35.5	4 6	100%		WIR. FILTRATION STS.	20 2			9.6	65%	3		53.8		4	100%	47.6		
 20 FU 20 20 20 20 20 20 20 20 20	SHUNT TRIP IT. GAS BRAISING PAN (1)(2) SHUNT TRIP CORD REELS (2) CORD REELS (2) CORD REELS (2) CORD REELS (2)	9.6 5.0 0.0 3.0 3.0	100% 65% 100% 100%		38.6	50	35.5	2		10.0				SHUNT TRIP	0.0	100%	5			47.6	6	100%	47.6		
20 FU 20 20 20 20 20 20 20 20	T. GAS BRAISING PAN (1)(2) SHUNT TRIP CORD REELS (2) CORD REELS (2) CORD REELS (2) CORD REELS (2)	5.0 0.0 3.0 3.0	65% 100% 100%		38.6	5.0		0	100%	29.0	OHP-1	40 2	2 20	FUT CONVECTION OVEN (1	) 9.6	65%	7	12.7			8	65%	10.0	FUT 60 QT MIXER	20
 20 20 20 20 20 20 20 20	SHUNT TRIP CORD REELS (2) CORD REELS (2) CORD REELS (2) CORD REELS (2)	0.0 3.0 3.0	100% 100%					8	100%	29.0				-	9.6	65%	9		12.7		10	65%	10.0	-	
20 20 20 20 20	CORD REELS (2) CORD REELS (2) CORD REELS (2) CORD REELS (2)	3.0 3.0	100%			0.0		10	100%	1.7	FCU-1, FCU-2, FCU-3, FCU-4	15 2		SHUNT TRIP	0.0	100%	11			6.5	12	65%	10.0		
20 20 20 20 20	CORD REELS (2) CORD REELS (2) CORD REELS (2)	3.0					1.7	12	100%	1.7			2 20	FUT.CONVECTION OVEN (1	) 9.6	65%	13	7.7			14	100%	1.5	UTILITY RECEPTACLE	20
20 20 20	CORD REELS (2) CORD REELS (2)			13	11.6			14	100%	8.6	ICE MACHINE	20 1			9.6	65%	15		6.2		16	100%	0.0	SPARE	20
20 20	CORD REELS (2)	20	100%	15		12.1		16	65%	14.0	FUT. 20 QT. MIXER (2)	20 1		SHUNT TRIP	0.0	100%	17			20.0	18	100%	20.0	FUT. 'BLAST FREEZER	30
20		3.0	100%	17			8.9	18	65%	9.0	<b>REFRIGERATOR (2)</b>	20 1		FUT.CONVECTION OVEN (1	) 9.6	65%	19	26.2			20	100%	20.0		<u> </u>
		3.0	100%	19	8.9			20	65%	9.0	REFRIGERATOR (2)	20 1			9.6	65%	21		30.2		22	100%	24.0	WASHER/DRYER	30
20	CORD REELS (2)	3.0	100%	21		13.4		22	65%	16.0	FUT. VACUUM SEALER (2)	20 1		SHUNT TRIP	0.0	100%	23			24.0	24	100%	24.0		
÷	CORD REELS (2)	3.0	100%	23			3.0	24	65%	0.0	SPARE	20 1	1 20 1 20	SPARE SPARE	0.0	100% 100%	25 27	0.0	0.0		26 28	100% 100%	0.0	SPARE SPARE	20 20
20	CORD REELS (2)	3.0	65%	25	2.0			26	65%	0.0	SPARE	20 1	1 20	SPARE	0.0	100%	27		0.0	0.0	<u></u> 30	100%	0.0 0.0	SPARE	20
20	CORD REELS (2)	3.0	100%	<u>2</u> 27		12.4		28	65%	14.5	FUT. DEHYDRATOR (2)	20 1	1 20	SPARE	0.0	100%	31	0.0		0.0	30	100%	0.0	SPARE	20
20	CORD REELS (2)	3,0	100%	29			12 1	30	65%	14.0	FUT. DOUGH PROOFER (2)	20 1	1 20	SPARE	0.0	100%	33	0.0	0.0		34	100%	0.0	SPARE	20
20	CORD REELS (2)	3,0	100%	31	6.0			32	100%	3.0	KITCHEN COUNTER (2)	20 1	1 20	SPARE	0.0	100%	35		0.0	0.0	36	100%	0.0	SPARE	20
20	CORD REELS (2)	3.0	100%	33	0.0	4.5		34	100%	1.5	KITCHEN COUNTER (2)	20 1	1	PROVISION	0.0	100%	37	0.0		0.0	38	100%	0.0	PROVISION	
20	CORD REELS (2)	3.0	100%	35		5	60	36	100%	3.0	KITCHEN COUNTER (2)	20 1	1	PROVISION	0.0	100%	39		0.0		40	100%	0.0	PROVISION	
20	MEN HEAT	12.5	100%	37	15.5		0.0	38	100%	3.0	KITCHEN COUNTER (2)	20 1	1	PROVISION	0.0	100%	41	Î		0.0	42	100%	0.0	PROVISION	
20	WOMEN HEAT	12.5	100%	39	10.0	14.5		40	100%	2.0	PKU SMOKE DET.	20 1						100.6	103.1	98.1					
	WTR. HTR./RECIRC. PUMP	10.0	100%	<u> </u>		14.5	15.0	40	100%	5.0	TELEVISION	20 1						И						WITH INTEGRAL 160KA T	V33
20		3.0	100%	43	13.5		13.0	44	100%	10.5	RECEPTACLES	20 1	NOTE	: PANEL SIZE INCLUDES ALLOW	ANCE FOR I	EUTURE KIT	CHEN FOU	IPMENT							
	IT. HOOD CONTROL PANEL	8.0	100%	45		18.5		44	100%	10.5	RECEPTACLES	20 1		JDING PASTEURIZER, BLANCHEF											
20	SPARE A	0.0	100%	47	$\frown$		7.5	40	1	7.5	RECEPTACLES (2)	20 1	PANE	L IS FED FROM PANEL KA VIA FE	ED-THRU L	UGS									
20	SPARE SPARE	0.0	100%	47 49	6.0		7.5	40 50	100%	6.0		20 1		RE D NQ OR EQUAL											
					0.0	0.0			1		RECEPTACLES (2)	20 1	SEE S	SPEC. NOTES									(1) - SHUN	T TRIP CIRCUIT BREAKER	
20 20	SPARE	0.0	100%	<u>51</u>		8.0		52 54	100%	8.0	CHARGING STATION														
	SPARE	0.0	100%	53 55		┥	8.0	54 50	100%	8.0	CHARGING STATION	20 1													
20	SPARE	0.0	100%	55	8.0	40.4		56 50	100%	8.0	CHARGING STATION	20 1													
20	SPARE	0.0	100%	57		13.4		58	125%	10.7	LIGHTS	20 1													
20	SPARE	0.0	100%	59	$\sim$		13.4	60	125%	10.7		20 1													
<u> </u>	PROVISION	0.0	100%	61	8.3			62	125%	6.6	KIT. HOOD EX. FAN	15 3													
<u> </u>	PROVISION	0.0	100%	63	₭	8.3		64	125%	6.6		<u>  </u> }													
	PROVISION	0.0	100%	65		┥ ┥	8.3	66	125%	6.6		<u> </u>													
20	EMON SUB-METER (3)	1.0	100%	67	4.9	<u> </u>		68	125%	3.1	KIT. HOOD MUA UNIT	15 3													
•		1.0	100%	69	<u> </u>	4.9		70	125%	3.1		<u> </u>  }													
-		1.0	100%	71	<u> </u>		4.9	72	125%	3.1		<u> </u>													
					136.4	124.9	124.2		$\sim$	$ \longrightarrow $	WITH INTEGRAL 160KA TVSS	$\sim$													
						$\sim$			ίλ																

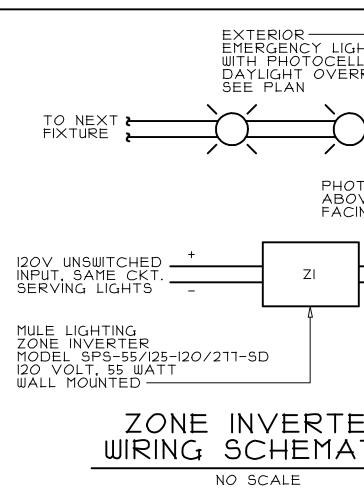
PANEL SHALL HAVE FEED-THRU LUGS

SQUARE D NQ OR EQUAL

SEE SPEC. NOTES



(3) - PROVIDE E-MON SUB METER AND INSTALL AS DIRECTED BY THE MANUFACTURER, LOCATE AS DIRECTED BY THE OWNER



	MECHANICAL EQUIPMENT CONNECTION SCHEDULE												
ITEM	DESCRIPTION	VOLTS	ΡН	FLA	WIRE	GND.	MOCP	DISCONNECT	PNL. & CKT.	REMARKS			
$\left\langle 1\right\rangle$	PKU-I	208	3	78 <i>.0</i>	3 #4	#8	80A	3P-100A-NFSS	KM-I	NEMA 3R			
2													
$\langle 3 \rangle$	3         GAS WATER HEATER         120         1         5.0         2 #12         #12         20A         TOGGLE SWITCH         KA-65												
4	4         FCU-I         208         I         0.4         2 #I2         #I2         I5A         2P-30A-NFSS         KA-I0												
5	5         FCU-2         208         I         0.5         2 #I2         #I2         I5A         2P-30A-NFSS         KA-I0												
6	FCU-3	208	1	0.4	2 #12	#12	15A	2P-30A-NFSS	KA-10				
$\langle 7 \rangle$	FCU-4	208	-	0.4	2 #12	#12	15A	2P-30A-NFSS	KA-10				
8													
	SCHEDULE NOTES												

VERIFY FINAL LOCATIONS, CONNECTIONS, ELECTRICAL CHARACTERISTICS, ETC. WITH FINAL EQUIPMENT SELECTIONS. CONTRACTOR IS RESPONSIBLE FOR CORRECTNESS OF ALL BREAKERS, WIRES, ETC. PKU = PACKAGED A/C UNIT, OHP = OUTDOOR HEAT PUMP, FCU = FAN COIL UNIT. WIRE THRU AQUASTAT AND TIMER, COORDINATE WITH PLUMBING.

					Ν	IEW F	PANE	L KE						
VOL.	ΓS: 12	0/208	PHASE: 3	3				WIRES: 4			MOUNTING: SURFACE			
AMP	S: 100		MAIN: LU	IGS ONLY										
BR	KR	DESCRIPTION	CIRCUIT			Pl	PHASE LOAD			CIRCUIT		DESCRIPTION	BR	KR
Р	Α	DESCRIPTION	AMPS DEMAND NO.		NO.	A	A B C		NO. DEMAND		AMPS	DESCRIPTION	Α	P
2	20	FUT. W-I FZR. CAPSULE PAK	10.7	100%	1	27.9			2	100%	17.2	FUT. W-I FREEZER COND.	35	3
	-		10 <u>.</u> 7	100%	3		27.9		4	100%	17.2			-
2	20	W-I CLR. CAPSULE PAK	7.7	100%	5			24.9	6	100%	17.2			-
-	-		7.7	100%	7	18.8			8	100%	11.1	FUT. W-I COOLER COND.	20	3
2	20	W-I FZR. CAPSULE PAK	7.5	100%	9		18.6		10	100%	11.1			-
	I		7.5	100%	11			18.6	12	100%	11.1			-
1	20	W-I CLR. DOOR/LIGHT	1.0	100%	13	2.3			14	100%	1.3	FUT. W-I COOLER EVAP.	20	1
1	20	W-I FZR. DOOR/LIGHT	2.0	100%	15		3.6		16	100%	1.6	FUT. W-I FREEZER EVAP.	20	1
1	20	FUT. W-I FZR. DOOR/LIGHT	2.0	100%	17			7.0	18	100%	5.0	FUT.W-I CLR. CONTROLS	20	1
1	20	SPARE	0.0	100%	19	5.0			20	100%	5.0	FUT. W-I FZR. CONTROLS	20	1
1	20	FIRE ALARM PANEL (1)	5.0	100%	21		6.9		22	125%	1.5	FUT. WALK-IN LIGHTS	20	1
1	20	SECURITY PANEL	5.0	100%	23			5.0	24	100%	0.0	SPARE	20	1
1	20	SPARE	0.0	100%	25	0.0			26	100%	0.0	SPARE	20	1
1	20	SPARE	0.0	100%	27		10.0		28	100%	10.0	GEN. BATT. HEATER	20	1
1	20	SPARE	0.0	100%	29			10 <u>.</u> 0	30	100%	10.0	GEN. BATT. CHARGER	20	1
						54.0	67.0	65.5						

SQUARE D NQ OR EQUAL SEE SPEC. NOTES

SEE SPEC. NOTES

	NEW PANEL KM													
VOL	TS: 12	0/208	PHASE: 3	;				WIRES: 4				MOUNTING: SURFACE		
AMP	S: 225	5	MAIN: LU	GS ONLY										
BR	KR	DECODIDITION		CIRCUIT		Pł	ASE LOAI	D		CIRCUIT		DESCRIPTION	BR	KR
Р	Α	DESCRIPTION	AMPS	DEMAND	NO.	A	В	C	NO.	DEMAND	AMPS	DESCRIPTION	A	Р
3	80	PKU-1	78.0	100%	1	132.0			2	100%	54.0	PANEL KE	100	3
			78.0	100%	3		145.0		4	100%	67.0	_		
			78.0	100%	5			143.5	6	100%	65.5	_		
2	2 40 OHP-2 29.0 100% 7 33.0 8 100%									4.0	SECURITY SYS.	20	1	
29.0 100% 9 29.0 10 100% 0.0 SP										SPARE	20	1		
2	15	FCU-5, FCU-6, FCU-7, FCU-8	0.8	100%	11			8.8	12	100%	8.0	EWC (1)	20	1
			0.8	100%	13	0.8			14	100%	0.0	SPARE	20	1
1													1	
1         20         EXTERIOR LIGHTS         1.0         125%         17         8.8         18         100%         7.5         F									RECEPTACLES	20	1			
1	20	LIGHTS	7.1	125%	19	8.9			20	100%	0.0	SPARE	20	1
1	20	SPARE	0.0	100%	21		0.0		22	100%	0.0	SPARE	20	1
1	20	SPARE	0.0	100%	23			12.0	24	100%	12.0	AIR CURTAIN	20	1
1	20	SPARE	0.0	100%	25	0.0			26	100%	0.0	SPARE	20	1
1	20	SPARE	0.0	100%	27		0.0		28	100%	0.0	SPARE	20	1
1	20	SPARE	0.0	100%	29			0.0	30	100%	0.0	SPARE	20	1
1	20	SPARE	0.0	100%	31	0.0			32	100%	0.0	SPARE	20	1
1	20	SPARE	0.0	100%	33		0.0		34	100%	0.0	SPARE	20	1
1	20	SPARE	0.0	100%	35			0.0	36	100%	0.0	SPARE	20	1
3	20	EMON SUB-METER (2)	1.0	100%	37	1.0			38	100%	0.0	SPARE	20	1
			1.0	100%	39		1.0		40	100%	0.0	SPARE	20	1
			1.0	100%	41			1.0	42	100%	0.0	SPARE	20	1
	175.7 182.5 174.1 WITH INTEGRAL 160KA TVSS													
	(1) - GFI CIRCUIT BREAKER (2) - PROVIDE E-MON SUB METER AND INSTALL AS SQUARE D NQ OR EQUAL DIRECTED BY THE MANUFACTURER, LOCATE AS													

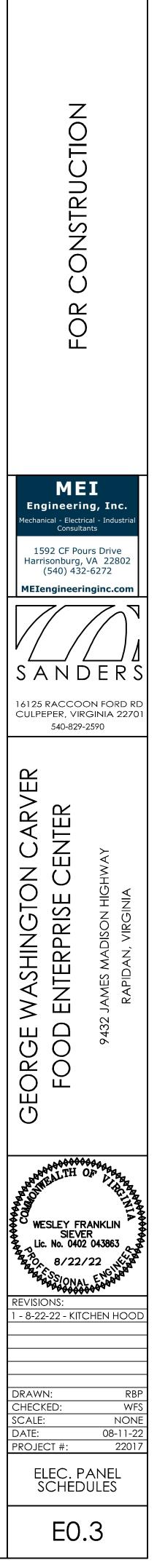
LIGHTING FIXTURE CONTROLS	5
LIGHTS ELL 'ERRIDE PASSIVE INFRARED DUAL TECHNOLOGY MICROPHONIC LINE VOLTAGE CEILING MOUNT SENSOR, EXTENDED RANGE TYPE	
Description of the second description of the	
HOTOCELL BOVE ROOF ACING NORTH O PC	
OCCUPANCY SENSOR SUPPLIED AND     AND MOUNTED ON LIGHT FIXTURE     AFF ABOVE FINISHED FLOOR	
LIST NOTES	
<ol> <li>ACCEPTABLE MANUFACTURERS SHALL BE LEVITON AND SENSOR SWITCH.</li> <li>ALL COMPONENTS AND WIRING SHALL BE AS RECOMMENDED BY THE MANUFACTURER.</li> <li>ADJUST SENSITIVITY, OVERRIDE SWITCHES (WHERE APPLICABLE) AND TIME DELAYS TO THE SATISFACTION OF THE OWNER.</li> </ol>	

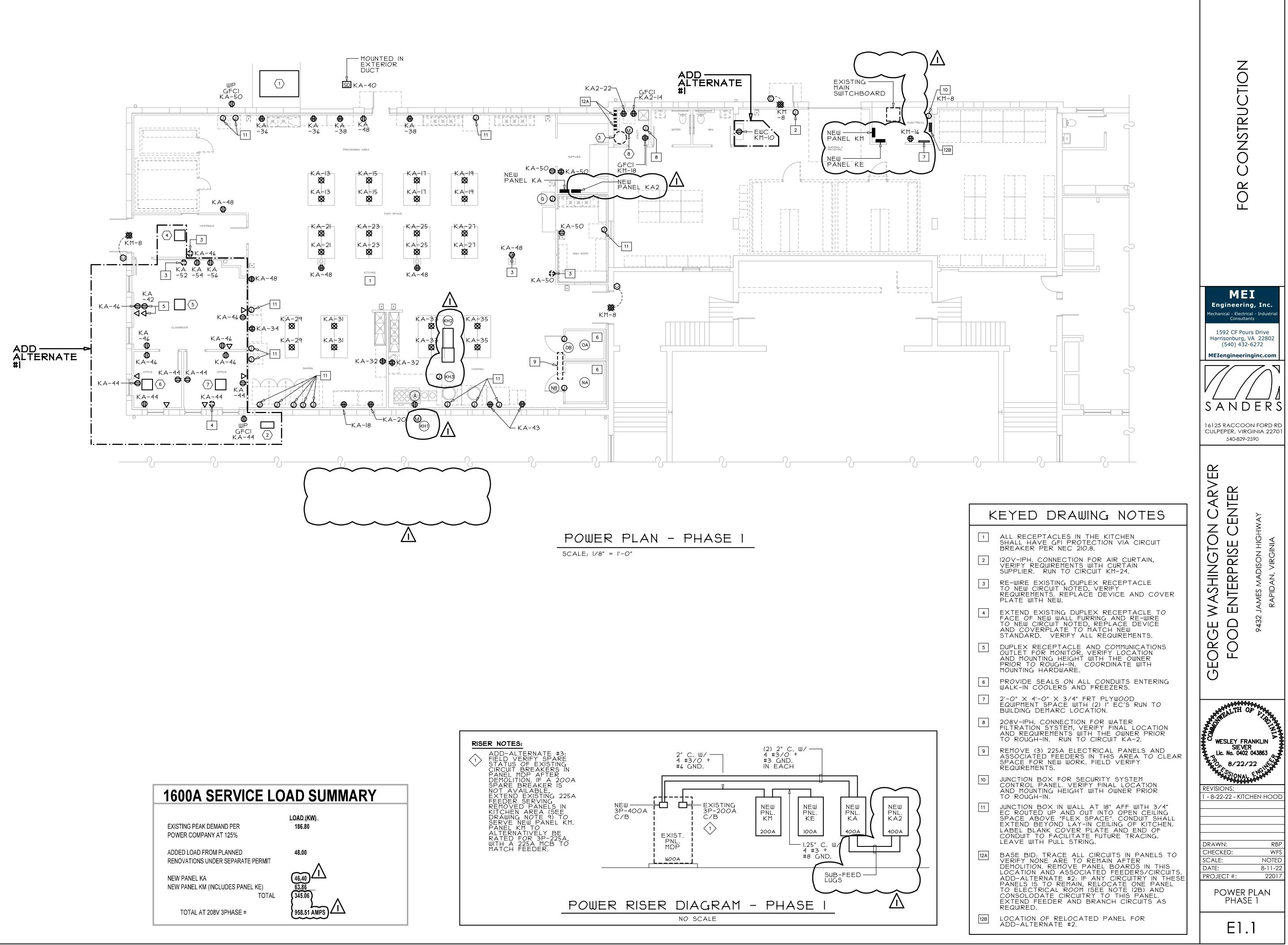
	LIGHTING FIXTURE SCHEDULE										
TYPE	MANUFACTURER/CATALOG NO.		LAMPS	WATTAGE	MOUNTING	REMARKS					
$\triangle$	DAY-BRITE 2-T-G-43L-835-4-FS-02F-UNV-DIM	430	O LUMEN LED	38.4	RECESSED						
2	DAY-BRITE 2-FG-G-43L-835-4-DS-UNV-DIM	430	O LUMEN LED	36.2	RECESSED						
3	DAY-BRITE         3000 LUMEN LED         33.0         RECESSED										
4	A DAY-BRITE FSS-4-55L-835-UNV-DIM 5500 LUMEN LED 45.0 SURFACE SUSPEND TO 9'-O" AFF. NOTE A										
5	BROWNLEE     1400 LUMEN LED     12.0     SURFACE										
${}^{\Delta} \mathbf{P}^{P}$	CHLORIDE CLC-N-RW	FURNIS	GHED W/FIXTURE		WALL ABOVE DOOR						
${}^{\Delta} \mathcal{Q}^{\Delta}$	CHLORIDE CLU2-N-W	FURNI	BHED W/FIXTURE		WALL 7'-6" AFF						
	CHLORIDE CLU2-N-W	FURNI	BHED W/FIXTURE		SURFACE						
	SCHEDULE NOTES										
-	- ALL FIXTURES SPECIFIED HAVE AN INTERGRATED LED ARRAY.										

A. PROVIDE AND INSTALL CHAIN HANGERS AS REQUIRED.

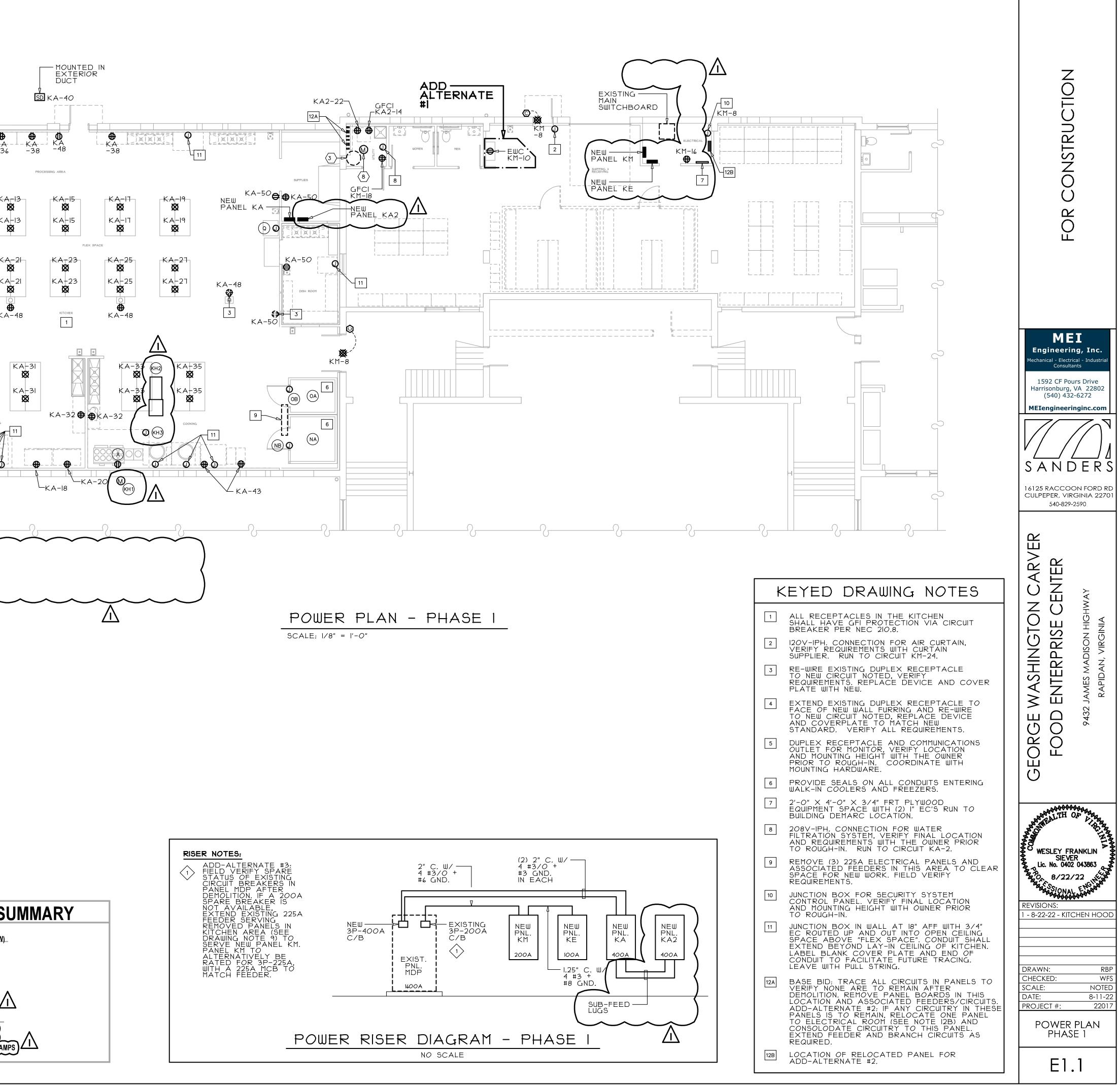
(1) - WITH RED HANDLE LOCK

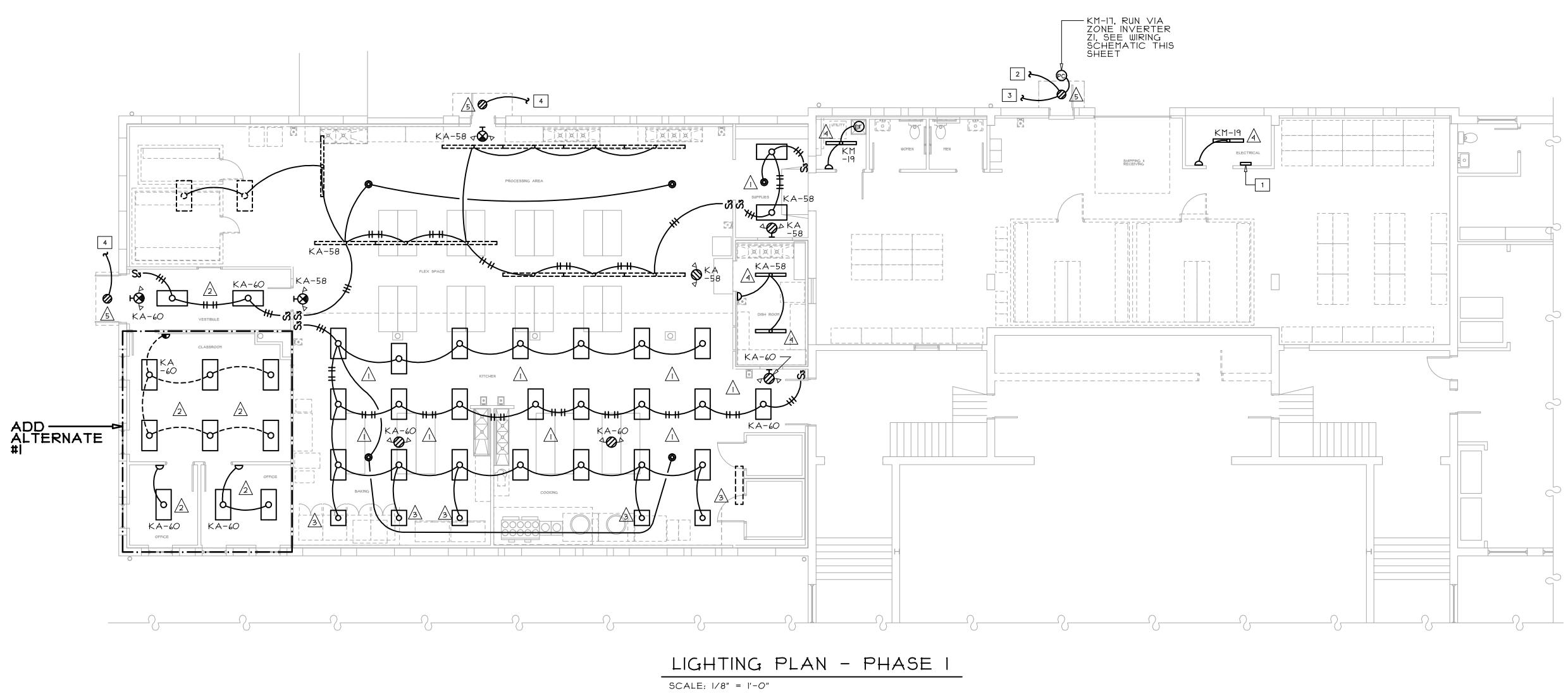
DIRECTED BY THE OWNER











K	EYED DRAWING NOTES
1	EXTERIOR LIGHTING EMERGENCY ZONE INVERTER ZI MOUNTED HIGH ON WALL, SEE WIRING SCHEMATIC SHEET EO.3. RUN TO CIRCUIT KM-II. LOCATE AS TO NOT BE DIRECTLY ABOVE ANY PANELS IN THIS AREA.
2	TIE WITH LIGHT IN CANOPY AT KITCHEN EXTERIOR DOOR.
3	TIE WITH LIGHT IN CANOPY AT VESTIBULE EXTERIOR DOOR.
4	TIE WITH LIGHT IN CANOPY AT SHIPPING AND RECEIVING EXTERIOR DOOR.



1.	GENERAL	3.	EXECUTION
1.1	DESCRIPTION OF WORK:	3.1	PIPING SYSTE
	<ul> <li>ALL FIXTURES, EQUIPMENT, ACCESSORIES, MATERIALS, AND LABOR REQUIRED TO PROVIDE COMPLETE, COORDINATED, AND FULLY FUNCTIONAL PLUMBING SYSTEMS GENERALLY AS INDICATED ON THE DRAWINGS AND AS SPECIFIED HEREIN.</li> <li>SANITARY SEWER</li> <li>DOMESTIC WATER</li> </ul>		<ul><li>A. VERIFY I</li><li>B. BACKFILI</li><li>C. VERIFY E</li></ul>
	3. LP GAS – 2 PSI		D. COORDIN
1.2	RELATED DOCUMENTS: A. THE REQUIREMENTS OF THE CIVIL, ARCHITECTURAL, STRUCTURAL, HVAC, AND ELECTRICAL DRAWINGS AND SPECIFICATIONS SHALL APPLY TO AND BE CONSIDERED		MAXIMUN PITCH O
	A PART OF THE PLUMBING WORK IN-SO-FAR AS THEY APPLY TO THE PLUMBING WORK AND ARE REQUIRED FOR COORDINATION.		1. DOI OVE HO
1.3	JOB CONDITIONS:		2. SEA SEA
	A. DUE TO THE SMALL SCALE OF THE DRAWINGS, IT IS NOT POSSIBLE TO INDICATE ALL OFFSETS, FITTINGS AND ACCESSORIES WHICH MAY BE REQUIRED TO PROVIDE A COMPLETE INSTALLATION OF THE WORK DESCRIBED AND INDICATED.		3. PR( PIP 4. DO INT
	B. PROVIDE FITTINGS, OFFSETS, TRANSITIONS, AND ACCESSORIES REQUIRED TO MEET CONDITIONS OF THE PROJECT.		5. INS
	C. PROVIDE SERVICE ACCESS FOR EQUIPMENT, CONTROL COMPONENTS, VALVES, AND SPECIALTIES.		6. INS F. PROVIDE
	D. PROVIDE ACCESS PANELS FOR VALVES, ACCESS DOORS, ETC. CONCEALED BEHIND FINISHED SURFACES.		CONTINU G. FIRESTOF
1.4	CONFORMANCE TO REGULATIONS:		H. PATCH F
	A. WORK SHALL CONFORM WITH VIRGINIA UNIFORM STATEWIDE BUILDING CODE, NFPA, AND LOCAL ORDINANCES.		I. WELDING SYSTEM
1.5	QUALITY ASSURANCE:		J. MAKE CO
	A. COMPLY WITH MANUFACTURER'S REQUIREMENTS AND NOTES AND DETAILS SHOWN HEREIN FOR INSTALLATION OF EQUIPMENT.		K. PROVIDE FINISHED
1.6	MATERIALS AND EQUIPMENT:		L. PROVIDE
	A. EQUIPMENT PROVIDED FOR THIS PROJECT SHALL BE EQUIVALENT TO PRODUCTS SPECIFIED.		ALL PLU
	B. CONTRACTOR SHALL GUARANTEE EQUIVALENCE AND IS RESPONSIBLE FOR MODIFICATIONS REQUIRED AND COORDINATION WITH OTHER TRADES TO FIT SUBSTITUTED PRODUCT INTO THE PROJECT.		COVERED SURROUI N. PROVIDE
	C. MATERIALS AND EQUIPMENT OF THE SAME TYPE AND USE SHALL BE FROM A SINGLE MANUFACTURER.		O. NO PLAS
	D. PROTECT STORED MATERIALS AND EQUIPMENT FROM WEATHER.		P. WATER M
1.7	UTILITIES AND CONNECTIONS:		Q. TEST PIF
	A. OWNER WILL PAY FOR ALL WATER, GAS AND SEWER UTILITY CONNECTION FEES.		1. WA THE 2. SAN
	B. COORDINATE CONNECTIONS WITH SITE UTILITY DRAWINGS. WORK TO LOCATIONS AND INVERTS INDICATED ON SITE DRAWINGS. PROVIDE TRANSITIONS IN SIZE AND MATERIAL AT POINT OF CONNECTION.		MA 3. TES 4. TES 5. PIP
1.8	SUBMITTALS:		CO
	A. SUBMIT SHOP DRAWINGS AND PRODUCT DATA FOR FIXTURES AND EQUIPMENT SPECIFIED HEREIN AND ON THE DRAWINGS. SHOP DRAWINGS AND PRODUCT DATA SHALL BE IDENTIFIED PER INDICATIONS ON DRAWINGS, SHALL BE MARKED TO INDICATED SPECIFIC ITEM BE PROPOSED, AND SHALL BE ORGANIZED IN AN ORDERLY MANNER. SUBMIT SHOP DRAWINGS ELECTRONICALLY IN PDF FORMAT.	3.2	<ul><li>PLUMBING FIX</li><li>A. PROVIDE</li><li>B. PROVIDE</li></ul>
	<ul> <li>B. SUBMIT OPERATING AND MAINTENANCE MANUALS FOR EACH PIECE OF EQUIPMENT INSTALLED IN THIS PROJECT. INCLUDE COPIES OF SPECIFIC EQUIPMENT WARRANTIES IN MANUAL.</li> </ul>		C. PROVIDE D. CAULK E
	C. UPON COMPLETION OF THE INSTALLATION, AND PRIOR TO ACCEPTANCE BY THE OWNER, CONTRACTOR SHALL FURNISH TWO COPIES OF AS-BUILT DOCUMENTATION. ALL CHANGES TO THE BIDDING DOCUMENTS SHALL BE NEATLY		E. PROVIDE
1.9	AND CLEARLY IDENTIFIED ON THE AS-BUILT DOCUMENTATION.  PROJECT CLOSEOUT:		UNLESS
	A. REPLACE OR REPAIR DAMAGED EQUIPMENT AND CLEAN ALL EXPOSED SURFACES.		KIT
	B. TOUCH-UP SHOP APPLIED FINISHES TO RESTORE DAMAGED OR SOILED AREAS.		
	C. INSTRUCT OWNER'S REPRESENTATIVE IN OPERATION AND MAINTENANCE OF EQUIPMENT UTILIZING OPERATION AND MAINTENANCE MANUAL.	NO.	DESCR
2.	PRODUCTS		IO BURNER STOVE W/
2.1	PIPING SYSTEMS:	B	40 GALLO GAS KETT
	A. DOMESTIC WATER PIPING - DOMESTIC TYPE L COPPER W/ NO LEAD SOLDER JOINTS, PEX OR CPVC. UNDERSLAB WATER - TYPE K SOFT COPPER OR PEX W/ NO JOINTS.		GAS BRAI
	B. WATER SERVICE - DUCTILE IRON.		GAS POT BURN
	C. SANITARY DRAINAGE - SCHEDULE 40 PVC WITH SOLVENT WELD FITTINGS, OR NO-HUB CAST IRON PIPING. HIGH TEMP DRAINAGE - NO-HUB CAST IRON PIPING.		GAS
	D. VENT PIPING - SCHEDULE 40 PVC W/ SOLVENT WELD FITTINGS, OR COPPER DWV WITH 50/50 SOLDER FITTINGS.		FRYER GAS
	E. 1ST STAGE GAS PIPING -		CONVECTI
	E. 2ND STAGE GAS PIPING - SCHEDULE 40 BLACK STEEL.		BLANCHER
2.2	PLUMBING FIXTURES AND EQUIPMENT:		ICE MACHINE
	A. REFER TO FIXTURE SCHEDULE AND EQUIPMENT LIST ON DRAWINGS FOR MANUFACTURER'S AND MODEL NUMBERS.		DISHWASHE

		PLUMBIN	IG		F	IXT	URE SCHEDULE	
ON	N <i>O.</i>	DESCRIPTION	W	$\vee$	CW	ΗW	MFR. MODEL FIXTURE FITTINGS ACCESS.	NTS
STEMS		ACCESSIBLE TANK					AMER. STD. PROVIDE CORRECT SEAT: CHURCH	
Y INVERT ELEVATIONS PRIOR TO EXCAVATION.	W۱	TYPE WATER CLOSET	3	1.5	1/2		2467.016 HANDLE ORIENTATION 295SSC	1
FILL BURIED PIPE IN TRENCHES WITH DIRT FREE OF ROCK, STONE OR DEBRIS.	LI	ACCESSIBLE WALL HUNG LAVATORY	1.5	1.5	1/2	1/2	AMER. STD.MOENCARRIER: WADE0355.0128915520 SERIES	1,2,3,4
Y EXACT LOCATION OF EQUIPMENT AND FIXTURES PRIOR TO ROUGH-IN.	нs	ACCESSIBLE WALL	1.5	1.5	1/2	1/2	SELECTED BY OWNER INSTALLED	1,2,3,4
DINATE ROUTING OF WORK WITH OTHER TRADES AND INSTALL TO ALLOW IUM HEADROOM CLEARANCES, SERVICE ACCESS AND MAINTAIN PROPER OF SLOPING LINES.	PSI	HUNG S/S HAND SINK S/S PRE-RINSE SINK W/ DRAIN BOARD RIGHT	1.5	1.5	1/2	1/2	BY CONTRACTOR - ALLOWANCE OF \$500SELECTED BY OWNER INSTALLED BY CONTRACTOR - ALLOWANCE OF \$1,500INDIRECT WASTE TO FS	
ATE PIPING SYSTEMS AS FOLLOWS: DOMESTIC WATER - 1/2" FIBERGLASS W/ ASJ UP TO 1.5"; 1" FIBERGLASS W/ ASJ	3BS	THREE BOWL S/S SINK	1.5	1.5	1/2	1/2	SELECTED BY OWNER INSTALLED BY CONTRACTOR - ALLOWANCE OF \$4,000INDIRECT WASTE TO FS	2
OVER 1.5" PIPE SIZE. UNDERSLAB WATER – 3/4" CLOSED CELL RUBBER. HOT WATER – 1" FIBERGLASS W/ ASJ. SEAL VAPOR BARRIERS. SECURE WITH ADHESIVE AND SEAL JOINTS WITH SEALANT.	EWC	ACCESSIBLE ELEC. WATER COOLER	1.5	1.5	1/2		ELKAY LZSTL8WSLK	1,2
PROVIDE GALVANIZED STEEL SADDLE AT HANGERS SURROUNDING INSULATED PIPE. DO NOT COMPRESS INSULATION EXCEPT IN AREAS OF STRUCTURAL	MB	MOP BASIN	3	1.5	1/2	1/2	FIAT MSB-2424 FIAT 830-AA, W/ 2-E-11-AA 832-AA, 889C	2
NTERFERENCE. NSTALL PRE-FITTED PLASTIC ELBOWS OR APPLY CANVAS JACKET IN THREE AYERS AT ELBOWS.	WM	WASHING MACHINE	2	1.5	1/2	1/2	SIOUX CHIEF 696-2313WR	2
DE SLEEVES FOR PIPING PENETRATING WALLS. INSULATION SHALL BE	GωH	GAS WATER HEATER			3/4	3/4	A.O. SMITH IOO GAL. BTH-199(A) 199,900 BTU EXPAN. TANK	
NUOUS THROUGH SLEEVES.	НВ	HOSE BIBB WITH VACUUM BREAKER			3/4		NIBCO MDL. WATTS 8A	2
TOP PIPING PASSING THROUGH FIRE RATED WALLS OR CEILINGS.	ωH	WALL HYDRANT			3/4		WOODFORD B45	2
H FINISHED AREAS DISTURBED BY WORK TO MATCH SURROUNDING AREAS.			×				WADE	<u> </u>
NG SHALL BE DONE BY CERTIFIED WELDERS FOR THE APPROPRIATE IM BEING WELDED.		WALL CLEANOUT					8480R	6
CONNECTIONS OF DISSIMILAR METALLIC PIPING WITH DIELECTRIC UNIONS.	FC0	FLOOR CLEANOUT	×				WADE SERIES 6000	6
DE CHROME PLATED ESCUTCHEON FOR EXPOSED PIPING PENETRATING A IED SURFACE.	СОТС	CLEANOUT TO GRADE	4				WADE 6000-Z-5	5
DE SHUT OFF VALVES AT EQUIPMENT CONNECTIONS. PROVIDE STOPS FOR LUMBING EQUIPMENT AND FIXTURES.	FD	FLOOR DRAIN	×	×			WADE W/ TRAP NO3STD6-21 PRIMER	6
ERS SUPPORTING COPPER PIPING SHALL BE COPPER PLATED OR PLASTIC RED. HANGERS SUPPORTING INSULATED PIPING SHALL BE SIZED TO DUND INSULATION AND STEEL SADDLE.	FS	FLOOR SINK	×	×			WADE 9143-6-15-27	6
DE VACUUM BREAKERS AT WALL HYDRANTS.		TRENCH DRAIN	4				ZURN Z895-E4	
ASTIC PIPING IN STEAM VENT CHASE. PLASTIC PIPING TO BE RUN CONCEALED NDITIONED SPACE ONLY.		TEMPERING VALVE			1/2	1/2	POWERS LFe480 T&S BRASS	4
R MAIN TO BE SUB-METERED.	PF	POT FILLER			1/2		B-0594	2
PIPING SYSTEMS AS FOLLOWS: WATER PIPING – TEST AT PRESSURE NOT LESS THAN WORKING PRESSURE OF THE SYSTEM. MAINTAIN SUCH PRESSURE FOR MINIMUM OF 1 HOUR. SANITARY AND VENT PIPING – W/ 10 FT. HEAD OF WATER, MAINTAINING SUCH PRESSURE FOR MINIMUM OF 1 HOUR. TEST GAS PIPING IN ACCORDANCE WITH IFGC-2015. TESTS SHALL SHOW NO SUBSTANTIAL LOSS IN PRESSURE. PIPING RUN IN CONCEALED AREAS SHALL BE LEAK TESTED PRIOR TO BEING CONCEALED.	l. 3.	TES: INSTALL FIXTURES IN WITH APPLICABLE STA PROVIDE PIPE INSULA TRUEBRO MODEL 105W	NDAR TION K OR E	RDS. KIT. EQUAL			<ol> <li>PROVIDE PROPER ACCESSORIES FOR WALL THICKNESS &amp; CONSTRUCTION.</li> <li>PROVIDE TEMPERING VALVE AT FIXTURES AS INDICATED ON PLAN OR RISERS.</li> </ol>	5
FIXTURES	5.	MOUNT IN 16" ROUND C FLUSH W/ PAVEMENT	ONCR OR G	ETE F RADE	ring ·		6. SIZE TO MATCH SEWER SERVED.	
DE CHROME PLATED STOPS FOR FIXTURES.								
DE TAILPIECE AND TRAP WITH CLEANOUT FOR LAVATORIES AND SINKS.								
DE REMOVABLE CHROME PLATED BASKET STRAINER FOR SINKS. < BETWEEN FIXTURE AND FINISHED SURFACES WITH WHITE SILICONE CAULKING.								
DE BOLT CAPS FOR WATER CLOSETS AND URINALS.								
T WALL CLEANOUTS AND PLUGGED OUTLETS AT 18" ABOVE FINISHED FLOOR								
SS OTHERWISE NOTED ON DRAWINGS.								

TCHEN	EQ	UIP	MEN	ΝT	SC	HEDULE
CRIPTION	W	V	CW	Н₩	GAS	REMARKS
IER GAS W/ OVENS					I	406 MBH INPUT
LON TTLE					3/4	IOO MBH INPUT
AISING TILT					3/4	80 MBH INPUT
RNER					3/4	80 MBH INPUT
					3/4	II4 MBH INPUT
CTION OVEN					(2) 3/4	180 MBH INPUT
ER	2		1/2			INDIRECT WASTE TO FD
E	(2) 		1/2			INDIRECT WASTE TO FS
GHER	2			3/4		INDIRECT WASTE TO FD

EXACT LOCATION, SIZE, AND TYPE OF CONNECTIONS FOR EQUIPMENT PRIOR TO ROUGH-IN.

	LEGEND	
////// 	SOIL OR WASTE PIPING GREASE SOIL OR WASTE PIPING HIGH TEMP SOIL OR WASTE PIPING WATER SERVICE PIPING VENT PIPING COLD WATER PIPING HOT WATER PIPING HOT WATER RECIRC. PIPING GAS PIPING BALL OR GATE VALVE CHECK VALVE GAS COCK GAS REGULATOR DROP IN PIPING RISER MARK - SEE DIAGRAM	FOR CONSTRUCTION
	EQUIPMENT MARK - SEE SCHEDULE	
AFF	ABOVE FINISHED FLOOR	
AFG	ABOVE FINISHED GRADE	
WC0	WALL CLEANOUT	MAN
FC0	FLOOR CLEANOUT	engineering, inc.
COTG	CLEANOUT TO GRADE	mechanical - electrical - industrial consultants
VTR	VENT THRU ROOF	1780 South Main Street Harrisonburg, VA 22801
WΗ	WALL HYDRANT	Phone: (540) 432-6272
HB	HOSE BIBB W/ VACUUM BREAKER	www.MEIengineeringinc.com
GWH	GAS WATER HEATER	
CW	COLD WATER	
ΗW	HOT WATER	SANDERS
ΤW	TEMPERED WATER	
HWR	HOT WATER RECIRC.	16125 RACCOON FORD RD CULPEPER, VIRGINIA 2270
DN	DOWN	540-829-2590
ΨC	WATER CLOSET	
LAV	LAVATORY	
FD	FLOOR DRAIN	R R R R
FS	FLOOR SINK	R R
DFU	DRAINAGE FIXTURE UNIT	
SFU	SUPPLY FIXTURE UNIT	
RIO	ROUGH-IN ONLY	SE CEN SE CEN N HIGHWAY

