GEORGE WASHINGTON CARVER FOOD ENTERPRISE CENTER - PHASE 1

CULPEPER COUNTY, VIRGINIA

NOTICE TO CONTRACTOR & ALL **TRADES**

ALL TRADES SHALL BE RESPONSIBLE FOR THE CONTENTS. CONTAINED HEREIN, AND FOR THE INFORMATION REPRESENTED 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

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

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 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

ACCESSIBILITY: COMPLY WITH VCC CHAPTER 11 PROVIDE ACCESSIBLE ROUTE TO PRIMARY

REPAIRS COMPLY W/ CHAPTER 5

THIS WORK INCLUDES LEVEL 1 & 2 ALTERATIONS.

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

SHALL COMPLY WITH THE VCC.

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

CODE INFORMATION (CONTINUED)

INTERIOR FINISH: COMPLY W/ VCC FIRE SPRINKLER SYSTEM [NR] F-1 FIRE AREA < 12,000 SF

704.3 FIRE ALARM [NR] 705.2 HAZARD CATEGORY 4 (NO CHANGE OR REDUCED) MEANS OF EGRESS - MEET VCC CHAPTER 10 EGRESS

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

SEE PLANS FOR NEW STRUCTURAL ALTERATIONS

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.

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.

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 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

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 DOCUMENTS
- ITEMS SPECIFICALLY IDENTIFIED AS "BY OTHERS" OR
- EXTERIOR AND INTERIOR SIGNAGE EXCEPT AS
- LOCKSET CORES (SARGENT 11 LINE XC KEYING
- APPLIANCES & KITCHEN EQUIPMENT NOT

PLUMBING CONTRACTOR

RAIN WATER CONDUCTOR

STANDING SEAM ROOF

TONGUE & GROOVE

UNLESS NOTED OTHERWISE

VINYL WALLCOVERING

VINYL COMPOSITE TILE

WELDED WIRE FABRIC

PER SQUARE FOOT

PER SQUARE INCH

PERIMETER

PLUMBING ROUGH OPENING

REINFORCED REQUIRED

RESPONSIBLE

SQUARE FEET

SCHEDULE

STANDARD

STORAGE

TOP OF

TYPICAL

VERTICAL

WITHOUT

TEMPORARY

UNDERGROUND

STEEL

RETURN

ROOM

PRESSURE TREATED

SPECIFICALLY IDENTIFIED FIRE ALARM - FUTURE

PROJECT CONTACTS

COUNTY OF CULPEPER, VIRGINIA PAUL HOWARD 540.727.3409

TENANT / PROJECT MANAGER

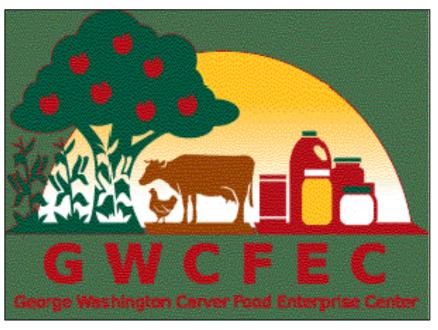
GEORGE WASHINGTON CARVER AGRICULTURE RESEARCH CENTER REBECCA SHEFFIELD GARTNER 540.727.3435 EXT. 344

ARCHITECT

SANDERS ARCHITECTURE, PC **DEX SANDERS** 540.829.2590

MEP ENGINEER

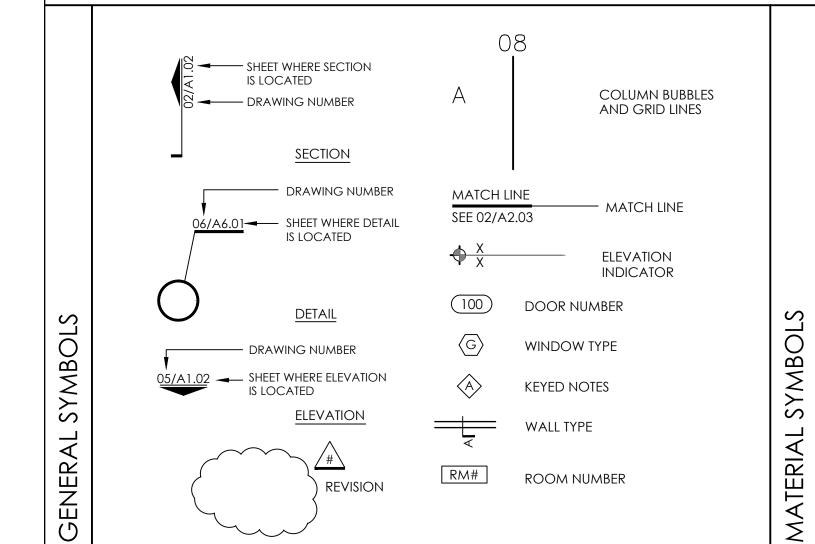
MEI ENGINEERING, INC. **WESLEY SEIVER** 540.432.6272 EXT. 107

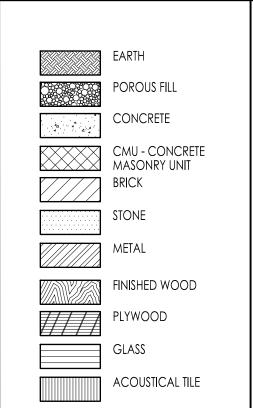


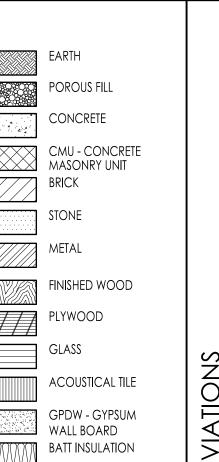
CULPEPER, VIRGINIA 22701 (v)540-829-2590



PHASE 1





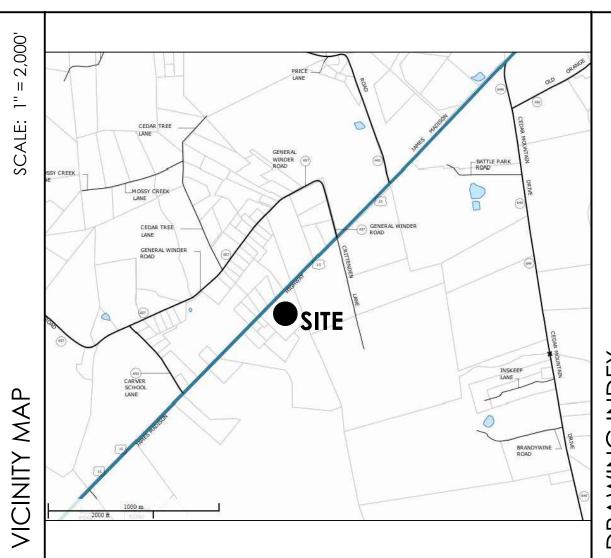


RIGID INSULATION

	_	,
	ABV.	ABOVE
	A.C.T.	ACOUSTICAL CEILING TILE
	A.F.F.	ABOVE FINISHED FLOOR
	ADJ.	ADJUSTABLE
		ALTERNATE
	ALUM.	ALUMINUM
		ARCHITECTURAL
	B.F.F.	BELOW FINISHED FLOOR
	BSMT	BASEMENT
	BLK'G	BLOCKING
	B.O.	BOTTOM OF
	BOT.	BOTTOM
	BD	BOARD
	BLDG.	BUILDING
	C.T.	CERAMIC TILE
	CLG.	CEILING
	CLO.	CLOSET
	CMU	CONCRETE MASONRY UNIT
	CONC.	CONCRETE
	CONST	CONSTRUCTION
	DBL	DOUBLE
	DWG	DRAWING
	DTL.	DETAIL
	EX.	EXISTING
		ELECTRICAL CONTRACTOR
	ELEC.	ELECTRICAL
	ELEV.	ELEVATION
		EQUIVALENT
	EXP.	EXPANSION
	EXT.	EXTERIOR
ı	F.G.	FIBERGLASS

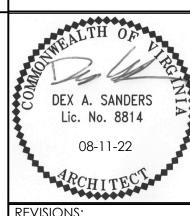
	F.F. BRD.	FINISHED FLOOR FINISH
TILE	FLR.	FLOOR
R	FND.	FOUNDATION
	FRMG.	FRAMING
	FT.	FOOT/FEET
	FTG.	FOOTING
	G.C.	GENERAL CONTI
R	GPDW	GYPSUM WALLBO
	GA.	GAUGE
	GALV.	GALVANIZED
	HVAC	HEATING, VENTIL
		CONDITIONING
	HW	HARDWARE
	HDR.	HEADER
		HEIGHT
	HORIZ.	HORIZANTAL
	insul.	INSULATION
UNIT	INT.	INTERIOR
	JAN.	JANITOR
	JT.	JOINT
		LINEAR FOOT
	M.C.	MECHANICAL C
	MRB	MOISTURE RESIST
		MANUFACTURED
TOR	MAX.	MAXIMUN
		MECHANICAL
	MIN.	MINIMUM
	MTL.	METAL
		ON CENTER
	PTD	PAINTED
	1) [DIAIL

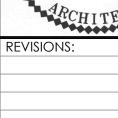
	FOUNDATION	۲.۱.
è.	FRAMING	PERIM.
	FOOT/FEET	PLUMB.
	FOOTING	R.O.
	GENERAL CONTRACTOR	RWC
٧	GYPSUM WALLBOARD	REINF.
	GAUGE	REQ.
′ .	GALVANIZED	RESP.
	HEATING, VENTILATION & AIR	RET.
	CONDITIONING	RM
	HARDWARE	S.F.
	HEADER	S.S.R
	HEIGHT	SCHED.
7.	HORIZANTAL	STD.
	INSULATION	STL.
	INTERIOR	STOR.
	JANITOR	T&G
	JOINT	TEMP.
	LINEAR FOOT	T.O.
	MECHANICAL CONTRACTOR	TYP.
	moisture resistant board	U.G.
JF.	MANUFACTURED	U.N.O.
	MAXIMUN	VWC
┨.	MECHANICAL	VERT.
	MINIMUM	V.C.T.
	METAL	W/
	ON CENTER	W/O
	PAINTED	W.W.F.
	PLATE	WD.



SSY CREEK WINDER CEDAR TREE LANE CEDAR TREE	
BRANDYWINE ROAD	DRAWING INDEX

<u>SHEET</u>	DRAWING TITLE
CS.1 CS.2	COVER SHEET PROJECT SPECIFICATIONS
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
M0.1 M1.1 E0.1 E0.2 E0.3 E1.1 E2.1 P0.1 P0.2 P1.1	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





CHECKED: PROJECT #:

COVER SHEET

CS-1

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.

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

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

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

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

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 318 - STANDARD BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE 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

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

ADVANCE BY OWNER. 6. REINFORCING BARS: ASTM A615, GRADE 60. WELDED WIRE FABRIC: ASTM A185. MINIMUM LAP SLICE TO BE 48 BAR DIAMETERS.

5. NO DUMPING OF EXCESS CONCRETE OR TRUCK CLEAN UP TO OCCUR ON SITE UNLESS APPROVED IN

7. WATERSTOPS: RUBBER OR PVC

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

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

04200 UNIT MASONRY ** 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. 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

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

TO CONFIRM MATCH BEFORE START OF INFILL WORK.

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 CONSTRUCTION AND MAONSRY FINISH IS NOT DAMAGED.

14. MASONRY SHALL BE INSTALLED PLUMB AND LEVEL. CUT MASONRY WITH A SAW ONLY. 15. COORDINATE CLOSELY FOR BUILT-IN WORK AND COORDINATE ALL MASONRY OPENINGS WITH

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

05000 METALS **

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

WHERE INDICATED. 4. PROVIDE RAILS SHOP FABRICATED AND SHOP PRIMED IN LONG SECTIONS TO MINIMIZE FIELD

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

1. SOUND BATTS INSULATION TO BE UN-FACED FIBERGLASS BATT INSULATION BY OWNERS 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 **

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

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.

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

07420 FRP PANELS

1. FIBERGLASS REINFORCED PLASTIC PANELS (FRP) TO BE EQ. TO MARLITE STANDARD FRP \$100 WHITE, CLASS 'A' FIRE RATED, SMOOTH FINISH PANELS. 2. PANELS 4'x8'x 0.09" THICKNESS.

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

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 SUBSTRATE. SEALANT EQ. TO MS-251 WHITE SILICONE.

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

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

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.

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.

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

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/ 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 CERAMIC TILE & STONE (NOT USED))

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. $\frac{1}{8}$ " x 4" RUBBER COVE BASE BY JOHNSON RUBBER CO. INSTALL SO ALL SEAMS ARE TIGHT & FLUSH WITH WALL.

09660 CARPET (NOT USED)

1. EPOXY FLOOR COATING TO BE EQUAL TO EPOXY.COM PRODUCT #315 POLYMERIC FLOORING WITH VINYL CHIPS.

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 EPOXY.COM

3. FILL EXISTING FLOOR CRACKS WITH EPOXY.COM PRODUCT #303

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. 6. PROVIDE (3) PART SYSTEM: BASE-COAT, BROADCAST COAT AND TOP COAT W/ ANTI-MICROBIAL

TREATMENT 7. INSTALLER SHALL INSPECT THE SUBSTRATE AND SHALL NOT BEGIN APPLICATION UNTIL SUBSTRATE IS

8. PROVIDE SAMPLES FOR COLOR SELECTION FROM STANDARD SAMPLE.

09900 <u>PAINTI</u>NG **

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

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

Clear , waterproof, low VOC sealer

EXTERIOR CMU MASONRY:

INTERIOR GYPSUM DRYWALL

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

SPECIFICATIONS (CONT.)

INTERIOR FERROUS METALS:

GROUP A: (All exposed interior ceiling metal, except aluminum, brass, bronze, chrome, stainless steel). To include the following items specially: steel joists, steel beams, purlins, steel girders, steel deck.

1st Coat: Primer coat generally by others, touch up and prepare per Workmanship above or apply one coat of SW DMT Acrylic Primer. 2nd Coat: SW Pro-Mar 200 Alkyd flat wall paint. 3rd 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 are attached.

Group B: All other interior metal not pre-finished and in particular: door jambs, steel doors and frames,

Primer: Factory primer or SW Kem Bond HS Universal Primer 2nd Coat: SW Pro-Mar 200 Alkyd Semi-Gloss 3rd Coat: SW Pro-Mar 200 Alkyd Semi-Gloss.

GALVANIZED METAL: same as for ferrous metals above.

INTERIOR MASONRY & GYPSUM BOARD IN FOOD PREP AND STORAGE AREAS:

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)

PAINTED WOOD WORK:

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.

NATURAL FINISH WOOD (not used)

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

INTERIOR CONCRETE FLOOR

Clear Concrete Sealer - Clean existing floor & apply Waterproof, low VOC

10260 WALL & CORNER GUARDS 1. SEE SHEET A1.01.

1. PROVIDE BEST MANUFACTURING SYSTEM HC 300 ADA SYSTEM. COLOR AS SELECTED BY ARCHITECT. 2. 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.

3. PROVIDE SIGN COMPLYING WITH ICC A117.1 ON DOOR EX-2 STATING: "EXTERIOR AREA FOR ASSISTED RESCUE".

4. ADDITIONAL INTERIOR SIGNAGE BY OWNER.

10500 LOCKERS (BY OTHERS) 10600 PARTITIONS (NOT USED)

1. SEE SHEET A2.2 FOR TOILET ACCESSORIES AND PARTITIONS. 11130 AUDIOVISUAL EQUIPMENT

1. U.N.O. ALL AUDIO VISUAL EQUIPMENT WILL BE FURNISHED AND INSTALLED BY OWNER. AT PRE-CONSTRUCTION MEETING CONTRACTOR TO IDENTIFY SCHEDULING REQUIREMENTS AND ALERT OWNER OF TIMING OF ANY A/V INSTALLATIONS. THE OWNER WILL PROVIDE ALL DATA CABLING,

TELEPHONE SERVICE AND EQUIPMENT. 2. SEE ELECTRICAL FOR EMPTY DATA BOXES AND CONDUIT IN CONTRACT.

1. KITCHEN EQUIPMENT, SHELVES & APPLIANCES WILL BE PROVIDED DELIVERED TO THE SITE BY OWNER. SEE NOTES ON SHEET A2.2

2. CONTRACTOR TO COORDINATE KITCHEN APPLIANCES, SINKS AND SHELVING WITH PLUMBING,

VENTILATION & ELECTRICAL REQUIREMENTS.

11480 ATHLETIC EQUIPMENT (NOT USED)

1. ALL FURNISHINGS ARE BY OTHERS.

11310 LIGHTNING PROTECTION (NOT USED)

13120 PRE-ENGINEERED STRUCTURES (NOT USED)

13850 FIRE ALARM & DETECTION SEE FIRE ALARM & ELECTRICAL

SUBMIT ALL EQUIPMENT & FIXTURES FOR REVIEW 14240 HYDRAULIC PASSENGER ELEVATOR (NOT USED)

SEE PLUMBING & MECHANICAL PLANS SUBMIT ALL EQUIPMENT & FIXTURES FOR REVIEW

15000 MECHANICAL **

SEE ELECTRICAL PLANS

SUBMIT ALL PANELS, DEVICES & LIGHTING FOR REVIEW

08000

09650

09670

09900

10425

SUBMITTAL SCHEDULE SUBMIT SHOP DRAWINGS & PRODUCT INFORMATION IN PDF FORMAT OR PHYSICAL SAMPLES:

CAST-IN-PLACE CONCRETE UNIT MASONRY (SAMPLE BRICK PANEL) 04200 05000 METAL RAILS STAINED RED OAK (SAMPLE) 06000 07210 BUILDING INSULATION EXTERIOR INSULATION & FINISH SYSTEM (SAMPLE) 07240 07400 ROOFING (SAMPLE)

08110 STEEL DOORS & FRAMES DOOR HARDWARE SCHEDULE 08710 09510 ACOUSTICAL TILE CEILING (SAMPLE)

PAINTING (COLOR SAMPLES)

FLUID APPLIED FLOOR COATING (SAMPLE)

INTERIOR SIGNAGE (COLOR CHART)

RESILIENT BASE (SAMPLES)

WINDOWS

TOILET ACCESSORIES 10800

SEE MECHANICAL, ELECTRICAL & PLUMBING SHEETS FOR MEP, FIRE ALARM EQUIPMENT AND SYSTEM SUBMITTALS REQUIRED TO EVALUATE EACH SYSTEM.

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SPECIFICATIONS

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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

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 ALL 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

INDICATED.

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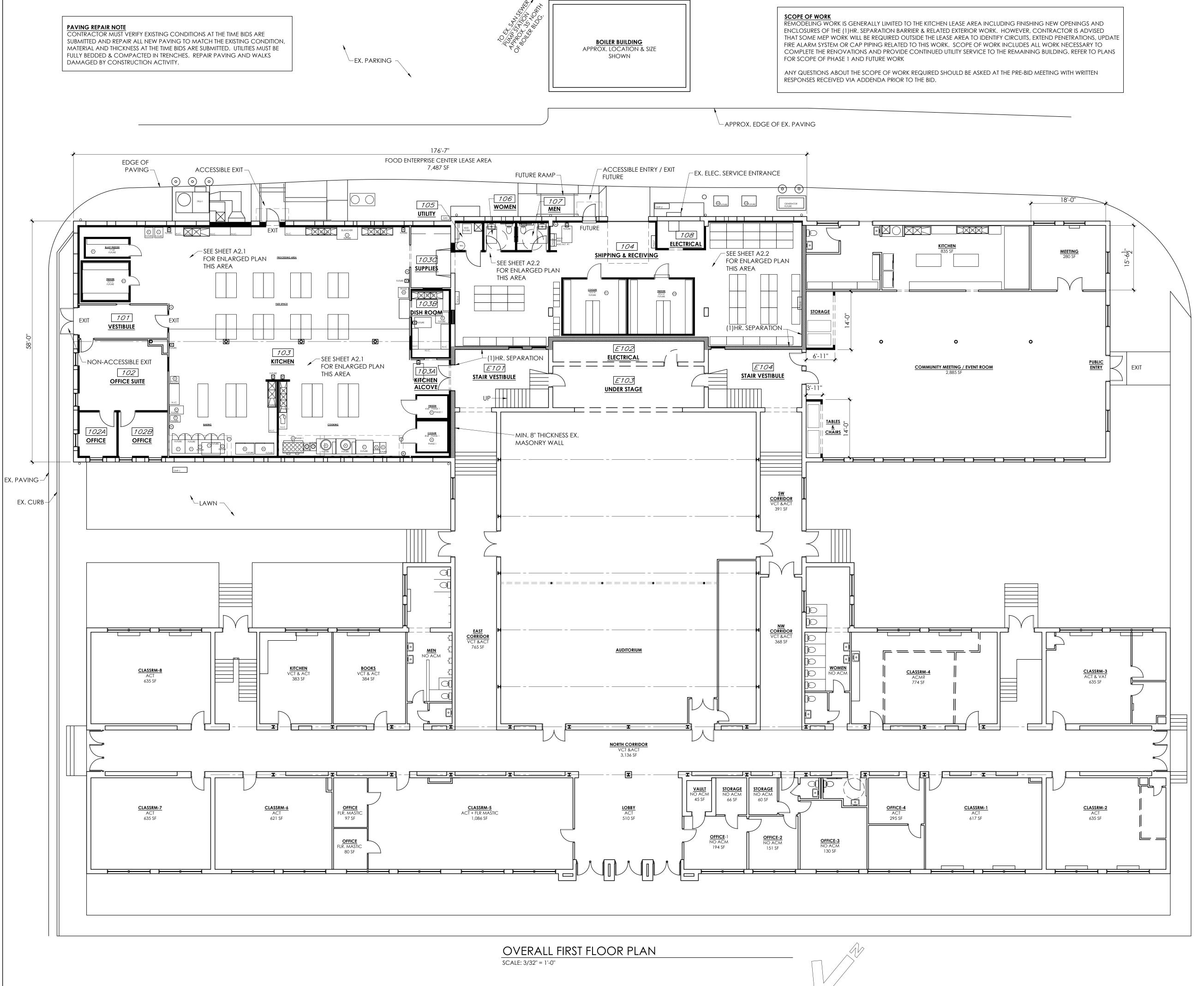
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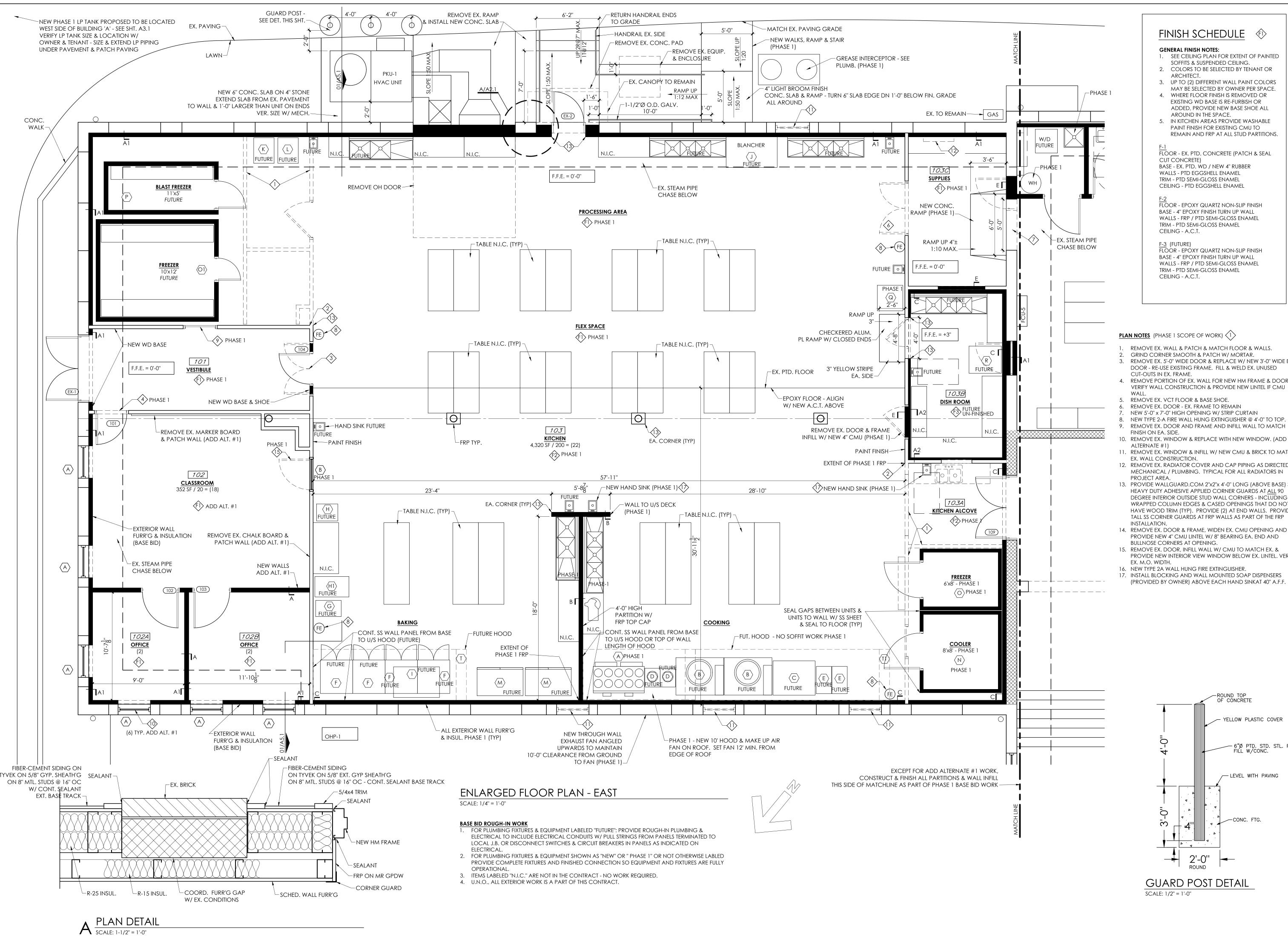
OVERALL FLOOR PLAN

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FINISH SCHEDULE 🚯

GENERAL FINISH NOTES:

- 1. SEE CEILING PLAN FOR EXTENT OF PAINTED SOFFITS & SUSPENDED CEILING.
- 2. COLORS TO BE SELECTED BY TENANT OR ARCHITECT. 3. UP TO (2) DIFFERENT WALL PAINT COLORS
- MAY BE SELECTED BY OWNER PER SPACE. 4. WHERE FLOOR FINISH IS REMOVED OR EXISTING WD BASE IS RE-FURBISH OR ADDED, PROVIDE NEW BASE SHOE ALL
- AROUND IN THE SPACE. 5. IN KITCHEN AREAS PROVIDE WASHABLE PAINT FINISH FOR EXISTING CMU TO REMAIN AND FRP AT ALL STUD PARTITIONS.

FLOOR - EX. PTD. CONCRETE (PATCH & SEAL CUT CONCRETE) BASE - EX. PTD. WD / NEW 4" RUBBER WALLS - PTD EGGSHELL ENAMEL TRIM - PTD SEMI-GLOSS ENAMEL CEILING - PTD EGGSHELL ENAMEL

FLOOR - EPOXY QUARTZ NON-SLIP FINISH BASE - 4" EPOXY FINISH TURN UP WALL WALLS - FRP / PTD SEMI-GLOSS ENAMEL TRIM - PTD SEMI-GLOSS ENAMEL

F-3 (FUTURE) FLOOR - EPOXY QUARTZ NON-SLIP FINISH BASE - 4" EPOXY FINISH TURN UP WALL WALLS - FRP / PTD SEMI-GLOSS ENAMEL TRIM - PTD SEMI-GLOSS ENAMEL

PLAN NOTES (PHASE 1 SCOPE OF WORK) (1)

- REMOVE EX. WALL & PATCH & MATCH FLOOR & WALLS.
- GRIND CORNER SMOOTH & PATCH W/ MORTAR. 3. REMOVE EX. 5'-0" WIDE DOOR & REPLACE W/ NEW 3'-0" WIDE EXIT DOOR - RE-USE EXISTING FRAME. FILL & WELD EX. UNUSED CUT-OUTS IN EX. FRAME.
- 4. REMOVE PORTION OF EX. WALL FOR NEW HM FRAME & DOOR. VERIFY WALL CONSTRUCTION & PROVIDE NEW LINTEL IF CMU
- 5. REMOVE EX. VCT FLOOR & BASE SHOE.
- REMOVE EX. DOOR EX. FRAME TO REMAIN
- NEW 5'-0" x 7'-0" HIGH OPENING W/ STRIP CURTAIN
- NEW TYPE 2-A FIRE WALL HUNG EXTINGUISHER @ 4'-0" TO TOP. 9. REMOVE EX. DOOR AND FRAME AND INFILL WALL TO MATCH
- FINISH ON EA. SIDE. 10. REMOVE EX. WINDOW & REPLACE WITH NEW WINDOW. (ADD
- 11. REMOVE EX. WINDOW & INFILL W/ NEW CMU & BRICK TO MATCH
- 12. REMOVE EX. RADIATOR COVER AND CAP PIPING AS DIRECTED BY MECHANICAL / PLUMBING. TYPICAL FOR ALL RADIATORS IN
- 13. PROVIDE WALLGUARD.COM 2"x2"x 4'-0" LONG (ABOVE BASE) S.S. HEAVY DUTY ADHESIVE APPLIED CORNER GUARDS AT ALL 90 DEGREE INTERIOR OUTSIDE STUD WALL CORNERS - INCLUDING WRAPPED COLUMN EDGES & CASED OPENINGS THAT DO NOT HAVE WOOD TRIM (TYP). PROVIDE (2) AT END WALLS. PROVIDE 8' TALL SS CORNER GUARDS AT FRP WALLS AS PART OF THE FRP
- 14. REMOVE EX. DOOR & FRAME, WIDEN EX. CMU OPENING AND PROVIDE NEW 4" CMU LINTEL W/ 8" BEARING EA. END AND BULLNOSE CORNERS AT OPENING.
- 15. REMOVE EX. DOOR, INFILL WALL W/ CMU TO MATCH EX. & PROVIDE NEW INTERIOR VIEW WINDOW BELOW EX. LINTEL. VERIFY
- EX. M.O. WIDTH. 16. NEW TYPE 2A WALL HUNG FIRE EXTINGUISHER. 17. INSTALL BLOCKING AND WALL MOUNTED SOAP DISPENSERS

-ROUND TOP OF CONCRETE YELLOW PLASTIC COVER 6"Ø PTD. STD. STL. PIPE FILL W/CONC. LEVEL WITH PAVING

GUARD POST DETAIL

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ENLARGED FLOOR PLAN EAST

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TOILET GRAB BARS: EQ. TO ASI 3800 SERIES W/ INTEGRAL NON-SLIP SURFACE. PROVIDE (1)-42" LONG & (1)-36" & (1) 18" LONG GRAB BAR AS INDICATED IN EACH ACCESSIBLE TOILET ROOM.

INTERIOR WALL TYPES

5/8" GPDW EACH SIDE ON 3-5/8" MTL. STUDS @ 16" OC

TYPICAL INTERIOR WALL TYPE - USE WHERE NOT OTHERWISE

16" OC MAX. PROVIDE R-15 MIN. INSUL. AT ALL EXT. WALLS

8'-0" TALL FRP PANELS ON 5/8" GPDW TO 10'-4" A.F.F. ON

3-5/8" FURRING @ 16" OC MAX. PROVIDE R-15 MIN. INSUL.

5/8" TYPE 'X' GPDW EA. SIDE ON 3-5/8" STUDS @ 16" OC W/

3" SOUND BATTS INSUL. (1) HOUR RATED - (U.L. U465)

CMU TOOTHED INTO THE EXISTING WALL - MATCH EX.

DECK ON 1-1/2" FURRING @ 16" OC MAX.

MAX (SOUND BATTS)

STUDS @ 16" OC MAX.

AT ALL EXT. WALLS

WALL WIDTH

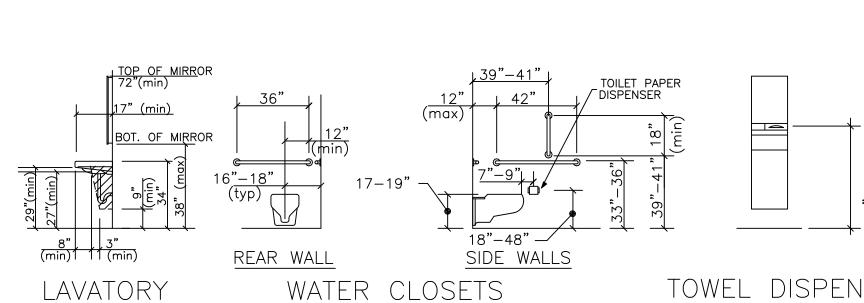
INDICATED.

NOTE: CONTRACTOR TO VERIFY BLOCKING LOCATIONS.

BUILT-IN SHELF NOTES

WHERE UTILITY TYPE SHELVES ARE INDICATED IN CLOSETS, AND JANITOR CLOSET BY A DASHED LINE, PROVIDE $\frac{3}{4}$ " THICKNESS A/B PTD. PLYWD SHELVES MIN 12" WIDE. INSTALL SHELVES ON HEAVY-DUTY ADJUSTABLE SHELF STANDARDS AND SNAP-IN PLACE BRACKETS OF THE PROPER WIDTH. U.N.O. PROVIDE (1) SHELF AND 24" LONG SHELF STANDARD BRACKETS @ 24" OC. PROVIDE BRACKETS @ 24" OC MAX.

- 1. PROVIDE WALLGUARD.COM 2"x2"x 4'-0" LONG (ABOVE BASE) S.S. HEAVY DUTY ADHESIVE APPLIED CORNER GUARDS AT ALL 90 DEGREE INTERIOR OUTSIDE STUD WALL CORNERS - INCLUDING WRAPPED COLUMN EDGES & CASED OPENINGS THAT DO NOT HAVE WOOD TRIM (TYP). PROVIDE (2) AT END WALLS.
- RELOCATE SEWER PANEL & ALARM SEE MEP 3. 1-1/2" O.D. GALV. PIPE HANDRAIL W/ (4) EQUALLY SPACED POSTS SET IN GROUTED SS PIPE SLEEVES. PROVIDE SMOOTH BENDS AND ALL WELDS GROUND SMOOTH. SEE DET. 03/A5.1. (FUTURE)
- 4. 1-1/2" O.D. GALV. PIPE HANDRAIL. PROVIDE SMOOTH BENDS AND ALL WELDS GROUND SMOOTH. TURN UPPER ENDS OF RAIL TO WALL AND MOUNT RAIL TO BRICK WITH CUSTOM GALV. WALL BRACKETS. (FUTURE)
- 5. REMOVE EX. CONC. APRON AND POUR NEW 6" THICK CONC. APRON WITH 1'-0" DEEP x 1'-0" WIDE TURN DN SLAB EDGE W/ (2)-#4 BOT. PROVIDE 6X6-W2.9xW2.9 WWF IN MID-SLAB



TOWEL DISPENSER/ REACH HEIGHTS SHOWN ARE TYPICAL TO OPERABLE PARTS

FOR ALL DEVICES INCLUDING RECEPTCALES / PULL STATIONS

Lic. No. 8814 08-11-22 REVISIONS: DRAWN:

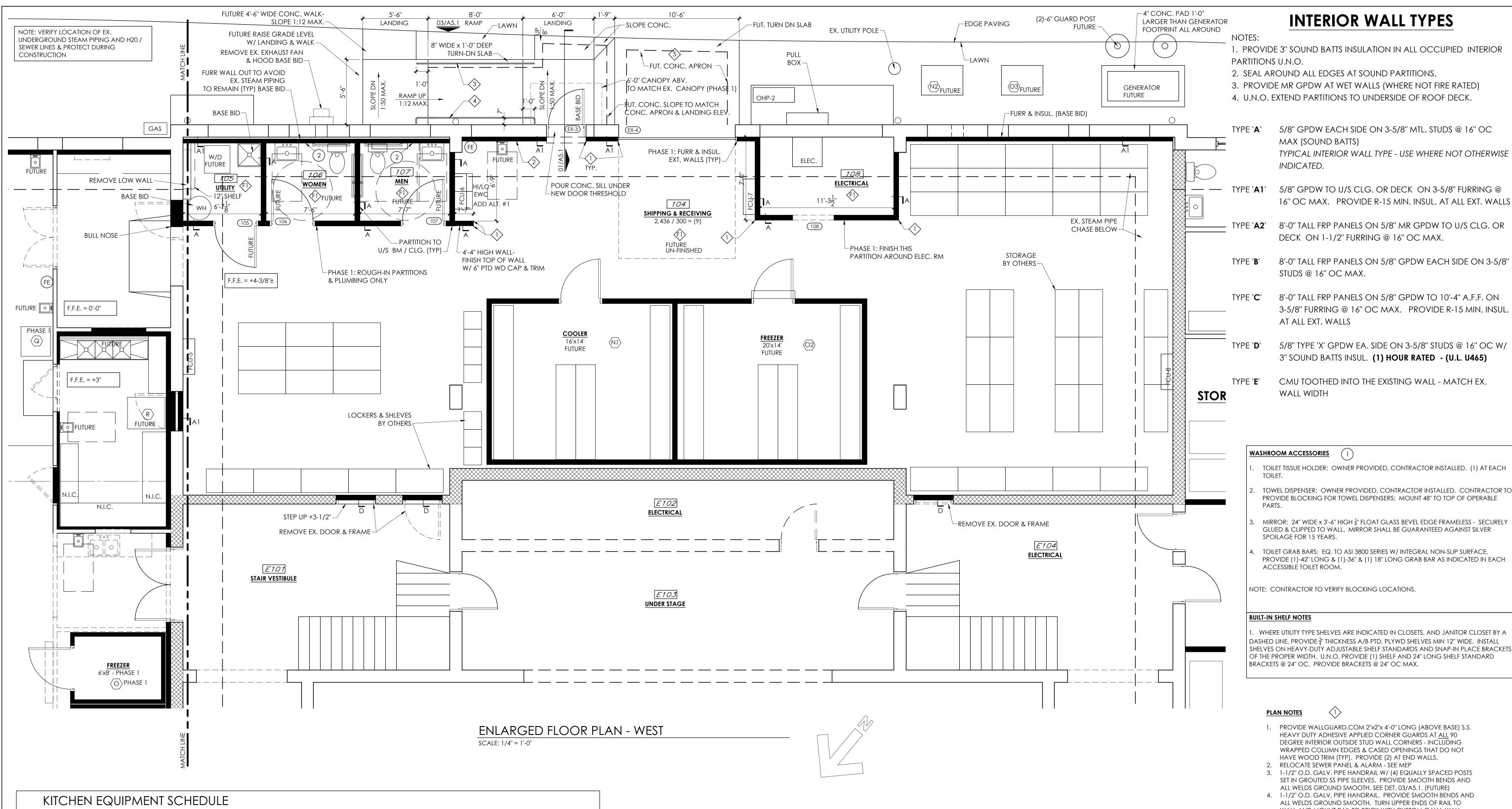
CHECKED:

DEX A. SANDERS

SCALE: NOTED 08-11-22 PROJECT #: 1624A ENLARGED FLOOR

PLAN WEST

A2-2

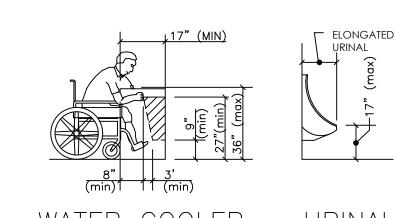


MANUFACTURER DESCRIPTION MODEL NO. BTUs **NOTES** ONVERT TO LP, Owner may provide used range G60-10RR A 10 Burner Stove Garland or EQ 100,000 B 40 gallon Kettle KLT - 40 - G40 Blodgett 80,000 Gas Braising Pan w/ Tilt BLT-30G Blodgett 80,000 BDCT SP-1/NG Pot Burner Black Diamond 114,000 Deep Fat Fryer EGF-40/50 Empura 180,000 Gas Convection Oven Southbend 31834 G Dough Proofer Omcan Mixer - 20 quart Empura H1 | Mixer - 60 quart M60A 220 ETL-60 QT Eurodib Pasteurizer TBD Blancher TBD Dehydrator - 24 Rack 28-0501-W Weston SC-520 Vacuum Sealer **ProMarks** Kool-It M Refrigerator Cooler 8'X'8 Walk-in Kold Locker Walk-in KL-7788 / CPB075DC-A Cooler 14'x16' Walk-in Combination FINELINE 32'X14'X8'-7" high Nor-Lake N2 14'x16'X8' Cooler Split System LASJ300RL3-#BYHM Nor-Lake Freezer 6'X'8 Walk-in Kold Locker Walk-in KL-7768 / CPF100DC-A Kold Locker Walk-in O1 Freezer 10'X12' Walk-in KL771012 / CPF151DC-A O2 Freezer 14'X16' Walk-in Combination FINELINE 32'X14'X8'-7" high Nor-Lake O3 14'x16'x8' Freezer Split System NASJ200RL3-#BYHM Nor-Lake Blast Freezer Thermo-Kool TK140B CF-2 Blast Freezer Condensing Unit Thermo-Kool Ice Machine Manitowoc Indigo Series 300 PW10eR R Dish Machine Hobart 16' Exhaust Hood (FUTURE) 12' Exhaust Hood FURNISHED BY OWNER GC INSTALL COMPLETE HOOD & ANSUL SYSTEM

KITCHEN EQUIPMENT NOTES:

- 1. SCHEDULE SHOWS PHASE 1 AND FUTURE EQUIPMENT. SEE FLOOR PLANS FOR PHASE 1 EQUIPMENT. ALL PHASE 1 EQUIPMENT WILL BE PURCHASED BY THE OWNER (TENANT) & INSTALLED BY THE GC. ROUGH IN FOR OTHER EQUIPMENT.
- 2. PRIOR TO STARTING WORK, OWNER SHALL FURNISH THE CONTRACTOR WITH A COMPLETE PDF DOCUMENT OF ALL KITCHEN EQUIPMENT TO BE FURNISHED BY THE OWNER AND INSTALLED BY THE CONTRACTOR. NOTE THAT SOME EQUIPMENT IS EXISTING AND CONTRACTOR WILL NEED TO FIELD EXAMINE EXISTING EQUIPMENT ON SITE TO CONFIRM ROUGH-IN REQUIREMENTS. CONTRACTOR SHALL CONFIRM ROUGH-IN REQUIREMENTS OF EQUIPMENT AND MAKE ADJUSTMENTS BEFORE ORDERING OR INSTALLING SYSTEMS.

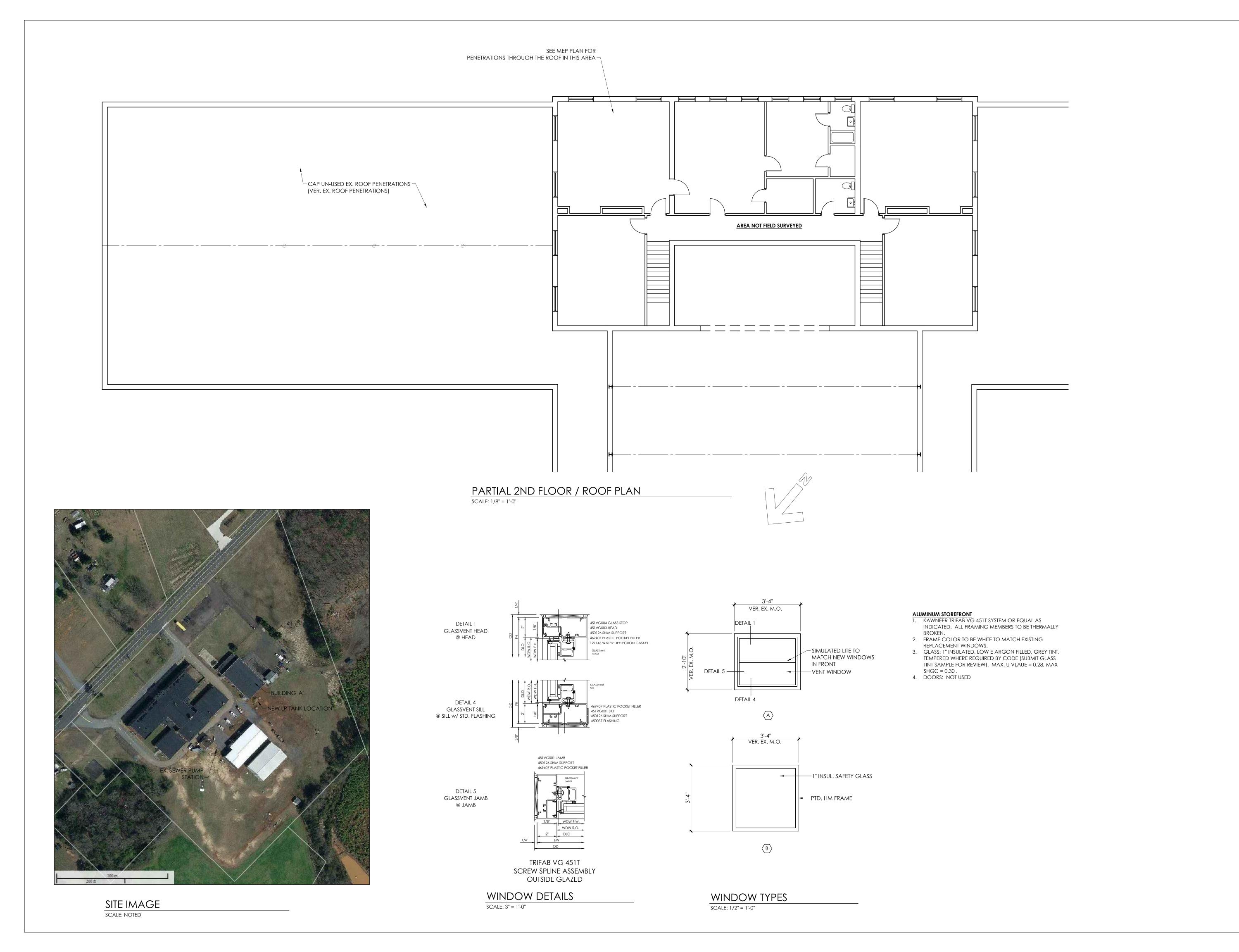
3. SEE MEP PLANS FOR ELECTRICAL AND OTHER CONNECTION INFORMATION.



MOUNTING HEIGHTS SCALE: NONE

EQUIPMENT PERMITTED IN HATCHED AREAS TO BE CONFIGURED TO PROTECT STANDARDS SHOW TYPICAL ACCESSIBLE MOUNTING HEIGHTS & CLEARANCES. SPECIFIED PRODUCTS MAY VARY FROM DETAIL IMAGE. SPECIAL MOUNTING HEIGHTS MAY BE INDICATED ON OTHER SHEETS.

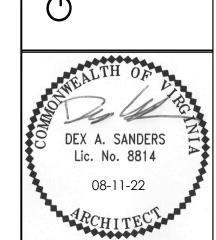
ORDER TOILETS WITH FLUSH VALVES ON THE OPEN SIDE OF THE TOILET. REACH HEIGHTS SHOWN ARE TO OPERABLE PARTS (TYPICAL)



ONSTRUCTION

16125 RACCOON FORD RD CULPEPER, VIRGINIA 22701 (v)540-829-2590

GEORGE WASHINGTON CARV



REVISIONS:

DRAWN: CHECKED: SCALE: NOTED 08-11-22 PROJECT #: 1624A

ROOF PLAN WINDOW DETAILS

A3-1

SANDERS ARCHITECTURE PC

16125 RACCOON FORD RD CULPEPER, VIRGINIA 22701

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PREP & RE-PAINT VENT HOOD

REMOVE EX. & PROVIDE NEW SCREENED EXH. FAN LOUVER MODIFY EXISTING MASONRY OPENING AS REQ'D.

EXTEND D.S.

revisions:

CHECKED:

PROJECT #: 1624A EXTERIOR VIEWS

08-11-22

REMOVE EX. WINDOW NO WORK ON TRIM & INSTALL NEW WINDOW UNIT REMOVE EX. WINDOW & THIS CONTRACT-(ADD ALT. #1)_ CAST SILL & INFILL W/ BRICK TO MATCH EX. (TYP-3) TEST & REMOVE EX. O/H WIRES BASE BID IF IN-ACTIVE CENTER NEW HOOD EXH. FAN IN ORIGINAL OPEN'G, PENETRATE WALL BELOW EXISTING LINTEL - PROVIDE UP-BLAST THROUGH WALL MOUNTING W/ ANGLE TRANSITION TO MC FAN MORE THAN 10'-0" ABOVE EXISTING GRADE

NW EXTERIOR VIEW SCALE: NONE

RESTORE & RE-LAMP (3) EX. FIXT.

REMOVE EX. SPEAKER

REPLACE DAMAGED D.S. SECTION W/ NEW ALUM. 0.032 D.S.

REMOVE EX. WINDOW &

INSTALL NEW WINDOW UNIT (ADD ALT. #1)_

RE-ROUT WIRES NEATLY IN CONDUIT

PREP & RE-PAINT-



NE EXTERIOR VIEW

SCALE: NONE

SW EXTERIOR VIEW 'B' SCALE: NONE



SW EXTERIOR VIEW 'A'



SW EXTERIOR VIEW 'F' SCALE: NONE

REMOVE EX. LOUVER & RE-USE EX. PENETRATION FOR

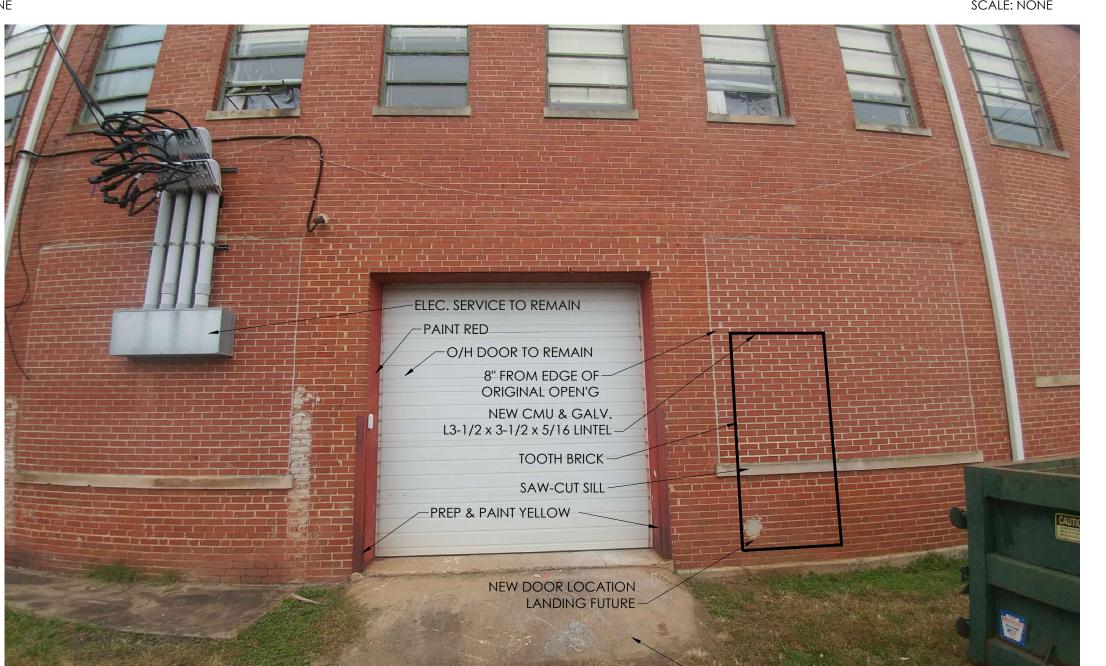
REMOVE EX. WINDOW & _ INFILL W/ BRICK TO MATCH EX.

PRE-CAST SILL TO REMAIN

NEW EXH. FAN VENT CAP

SW EXTERIOR VIEW 'C'

SCALE: NONE

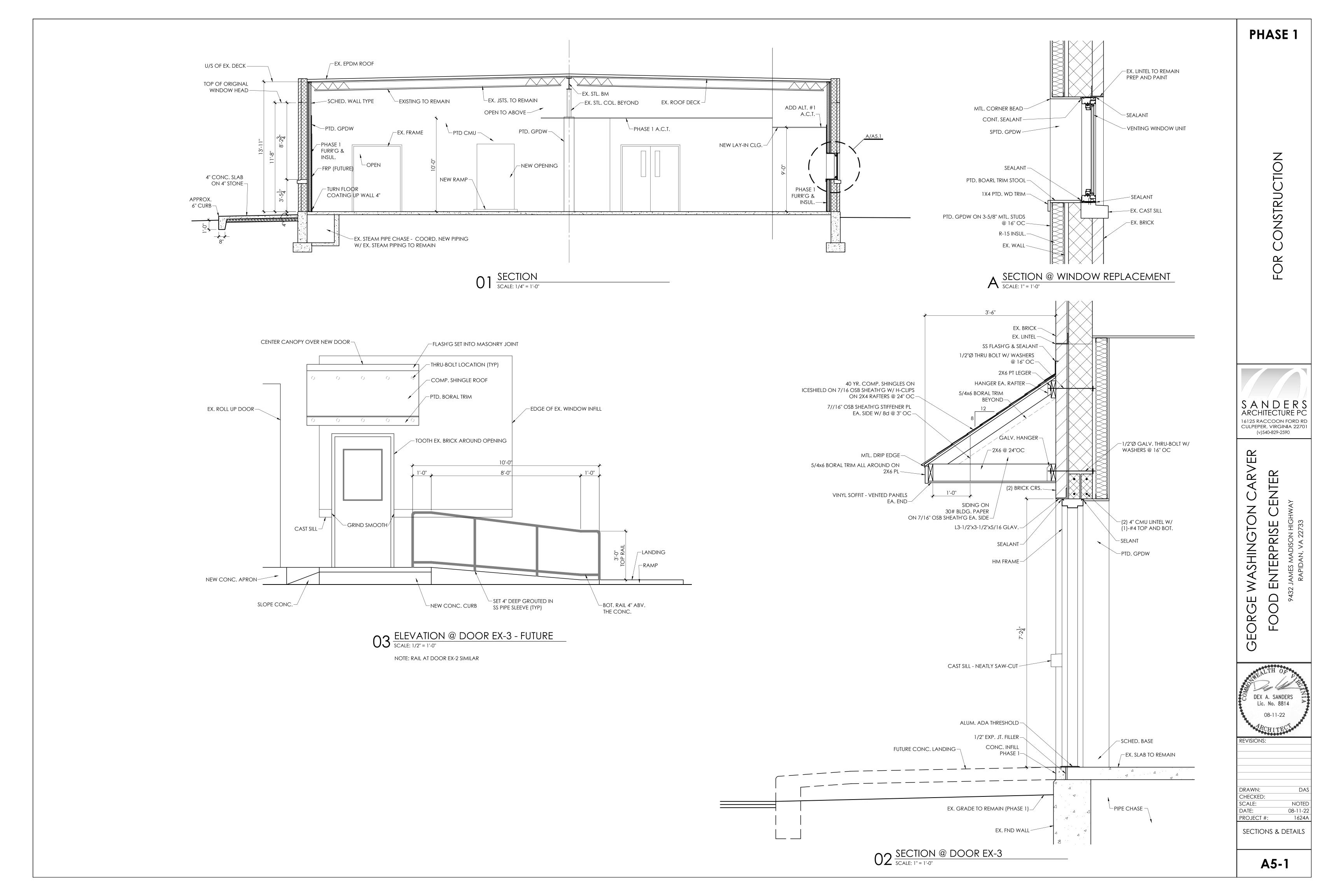


SW EXTERIOR VIEW 'E' SCALE: NONE



SW EXTERIOR VIEW 'D' SCALE: NONE

A4-1



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RDW	ARE	NOTES	/ TY	PES

SYSTEM. COORDINATE W/ OWNER.

GENERAL NOTES:

REMARKS

SEE PROJECT MANUAL FOR HARDWARE SPECS.

EXTERIOR PULL, KEYED PANIC EXIT, 12" KICKPL., FUT. CARD KEY

LEVER EXT. KEYED PANIC EXIT, CLOSER, 12" KICKPL.

CLASSROOM LOCKSET, NO CLOSER, 34" KICKPL

OFFICE LOCKSET, NO CLOSER (ADD ALT. #1)

OFFICE LOCKSET, NO CLOSER (ADD ALT. #1)

LEVER HANDLE, PANIC EXIT W/ ELEC. STRIKE, 34" KICKPL.

EXISTING ROLL UP DOOR TO REMAIN - PAINT EXT. JAMB

PASSAGE LATCHSET, PANIC EXIT, CLOSER, 34" KICKPL.

PASSAGE LATCHSET, NO CLOSER, 12" KICKPL EA. SIDE

STOREROOM LOCKSET, FLUSH BOLTS INACTIVE, FUT. CARD READER

PRIVACY LOCKSET, CLOSER, 12" KICKPL EA. SIDE

PRIVACY LOCKSET, CLOSER, 12" KICKPL EA. SIDE

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

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

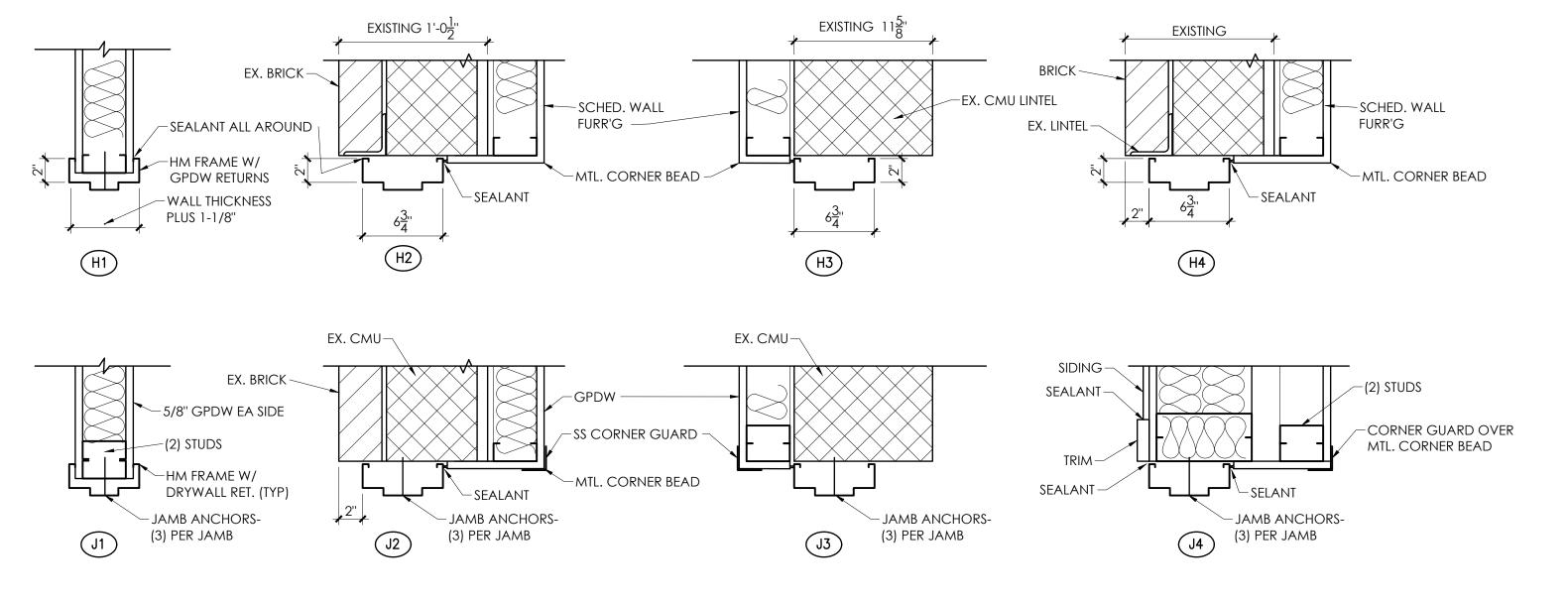
1. ALL DOORS UP TO 7'-0" TALL TO HAVE 1 -1/2 PAIR HINGES. DOORS OVER 7'-0" TALL TO HAVE 2 PAIR HINGES.

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.



FRAME

6" ALUM.

6" ALUM.

6" ALUM.

- | - |

- | -

- | -

60 MIN.

DETAIL HEAD / JAMB

H2/J2

H4/J4

H2/J2 SIM.

H1/J1

H1/J1

H1/J1

H1/J1

H1/J1

H1/J1

H1/J1

H3/J3

HM PTD.

HM PTD.

HM PTD.

HM PTD

HM PTD

HM PTD

HM PTD

HM PTD

НМ

PTD

HM

PTD

PTD

FRAME DETAILS

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

DOOR

STL. PTD

WD STN

WD STN

WD STN

STL. PTD.

STL. PTD.

STL. PTD.

STL. PTD.

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

MAT'L FIN TYPE LOUVER MAT'L FIN

DOOR

SIZE

EX-1 PR. 3'-1"± x7'-0"x1-3/4" STL. PTD.

EX-2 3'-0"x7'-0"x1-3/4" STL. PTD

EX-3 3'-0"x7'-0"x1-3/4" STL. PTD

EX-4 FXISTING

EXTERIOR

EX-2 3'-0"x7'-0"x1-3/4"

EX-4 EXISTING

INTERIOR

103** 3'-0"x7'-0"x1-3/4"

104 ___ 3'-0"x7'-0"x1-3/4"

105* 3'-0"x7'-0"x1-3/4" 106* 3'-0"x7'-0"x1-3/4"

107* 3'-0"x7'-0"x1-3/4"

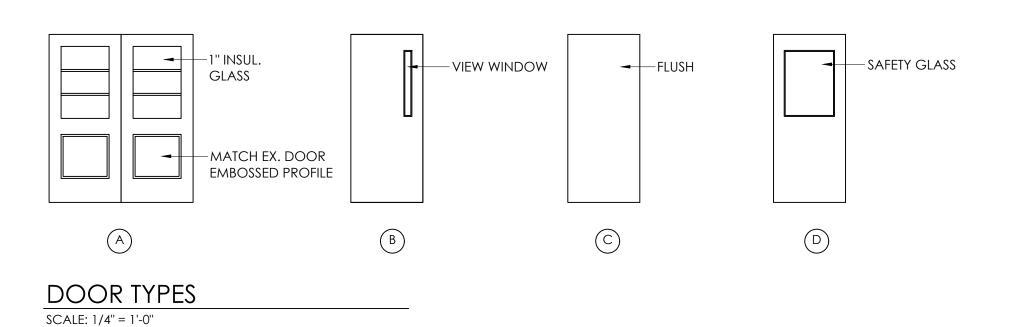
108 3'-6''x7'-0" CASED OPEN

109 3'-0"x7'-0"x1-3/4" ver. ht. STL. PTD

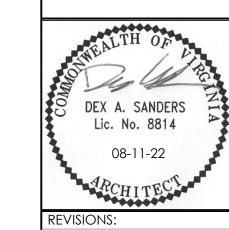
* DOOR TO BE INSTALLED IN FUTURE PHASE

(A) 102** 3'-0"x7'-0"x1-3/4"

101 3'-0" x 7'-0" x 1-3/4"

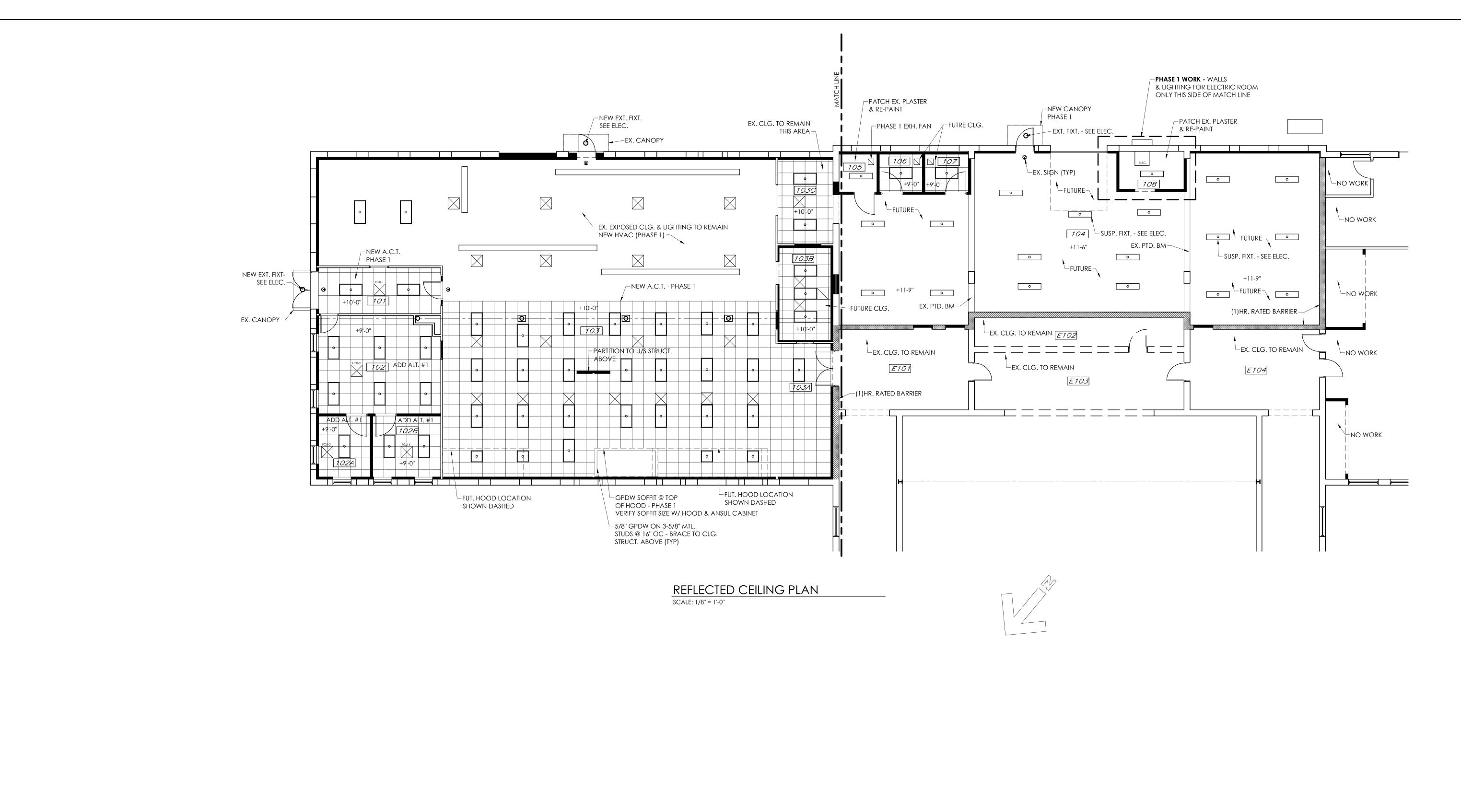






DRAWN:	DAS
CHECKED:	
SCALE:	NOTED
DATE:	08-11-22
PROJECT #:	1624A

DOOR SCHEDULE



ONSTRUCTION

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ER

GEORGE WASHINGTON CARV

CHECKED: SCALE: DATE: PROJECT #:

CEILING PLAN

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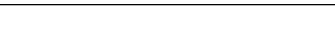
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(SUPPLY AIR, RETURN AIR AND OUTSIDE AIR). SUPPLY AND RETURN STATIC PRESSURES, ENTERING AND LEAVING AIR TEMPERATURES. INCLUDE EXHAUST FAN SYSTEMS. AND HVAC EQUIPMENT.

COMPLY WITH NEBB AND AABC REQUIREMENTS.

3.4 CONTROLS:

- A. SEAL PROBE PENETRATIONS FOR DUCT MOUNTED SENSORS.
- B. PROVIDE JUNCTION BOX HOUSING FOR CONTROL WIRING INTERLOCK TO COMPONENTS.
- CONSTRUCTION. WIRING AND CONDUCTORS IN FINISHED SPACES TO BE RUN CONCEALED.
- ON A CALL FOR COOLING BLOWER AND COOL COMPRESSOR SHALL BE ENABLED. FOR UNITS WITH OA ECONOMIZERS, IF OA CONDITIONS ARE SUITABLE, OA DAMPER TO MODULATE OPEN FOR FIRST STAGE COOL. OTHERWISE DAMPER TO POSITION AS DESCRIBED HEREIN. MIXED AIR LOW LIMIT SET AT 55F (ADJUSTABLE) TO LIMIT OA MOTORIZED DAMPER POSITION.
- MOTORIZED DAMPER OPERATION. 2. ON A CALL FOR HEAT - BLOWER AND GAS HEAT SHALL BE ENABLED.
- THERMOSTAT IN UNOCCUPIED MODES ON A CALL FOR DE-HUMIDIFICATION, BLOWER AND COOL COMPRESSOR TO BE
- ENABLED. HOT GAS REHEAT TO BE ENABLED TO MAINTAIN ROOM CONDITIONS. PROGRAM THERMOSTATS PER OWNER'S SCHEDULING.
- FLOAT SWITCH IN DRAIN PAN TO DISABLE HVAC UNIT IN CASE OF WATER IN PAN. OUTSIDE AIR TO BE INTRODUCED WHEN BLOWER RUNS. FOR UNITS WITH AIR QUALITY SENSOR, THERMOSTAT TO ENABLE SENSOR TO OPEN MOTORIZED OA DAMPER TO SETPOINT IN CASE OF POOR RA QUALITY (1000 PPM IN OCCUPIED MODES ONLY), OTHERWISE OA DAMPER TO CLOSE TO THE 10% POSITION.



1. GENERAL

1.1 DESCRIPTION OF WORK:

- 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. HEATING SYSTEM
- COOLING SYSTEM
- VENTILATION SYSTEM EXHAUST SYSTEMS

1.2 RELATED DOCUMENTS:

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 WORK AND ARE REQUIRED FOR COORDINATION.

1.3 JOB CONDITIONS:

NOTE CURVATURE OF INSIDE RADIUS

-POINT OF

OVERHEAD

STRUCTURE

CEILING

-ALL-THREAD

STEEL RODS

(TYP.)

HARDWIRED

THERMOSTAT

OVERHEAD

CEILING

MIN. 8" CLEAR

SECURE INDOOR UNIT TO WALL

-INSTALL AS HIGH AS POSSIBLE

HARDWIRED REMOTE THERMOSTAT

- DISCONNECT SWITCH-SEE DIV. 16

STRUCTURE

ORIGIN

R/W = 1.5 MIN.

LONG RADIUS ELBOW

AND OUTSIDE RADIUS OF ELBOW

SINGLE THICKNESS

CONCENTRIC

DUCTWORK ELBOW DETAILS

CURVES -

FCU

FCU DIAGRAM

FCU

FCU DIAGRAM

-PUMPED CONDENSATE DRAIN

TURNING VANES

AIR FLOW

SQUARE ELBOW

REFRIGERANT

->-----

PIPING TO OUTDOOR UNIT

GRAVITY CONDENSATE DRAIN

LINES TO 8" ABOVE FINISHED GRADE

DISCHARGE CONDENSATE DRAIN

REFRIGERANT

PIPING TO OUTDOOR UNIT

CONCEALED

PIPING TO-

W/TRAILING EDGES

- 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 REQUIRED TO MEET CONDITIONS OF THE PROJECT.
- C. PROVIDE SERVICE ACCESS FOR EQUIPMENT, CONTROL COMPONENTS, VALVES, FILTERS AND SPECIALTIES.
- PROVIDE ACCESS PANELS FOR VALVES, ACCESS DOORS, ETC. CONCEALED BEHIND
- MODIFY DUCT DIMENSIONS AS REQUIRED BY BUILDING STRUCTURE OR OTHER WORK AT NO ADDITIONAL COSTS

TO THE OWNER. MAINTAIN EQUIVALENT FREE AREA SIZES.

1.4 CONFORMANCE TO REGULATIONS:

- WORK SHALL CONFORM WITH VIRGINIA UNIFORM STATEWIDE BUILDING CODE, NFPA, AND LOCAL ORDINANCES.
- B. COMPLY WITH LANDLORD'S TENANT REQUIREMENTS FOR INSTALLATION OF WORK.

1.5 QUALITY ASSURANCE:

- A. COMPLY WITH MANUFACTURER'S REQUIREMENTS AND NOTES AND DETAILS SHOWN HEREIN FOR INSTALLATION OF EQUIPMENT.
- B. COMPLY WITH RECOMMENDATIONS OF SMACNA AND ASHRAE.

1.6 MATERIALS AND EQUIPMENT:

- A. EQUIPMENT PROVIDED FOR THIS PROJECT SHALL BE EQUIVALENT TO PRODUCTS
- CONTRACTOR SHALL GUARANTEE EQUIVALENCE AND IS RESPONSIBLE FOR MODIFICATIONS REQUIRED AND COORDINATION WITH OTHER TRADES TO FIT SUBSTITUTED PRODUCT INTO THE PROJECT.
- C. MATERIALS AND EQUIPMENT OF THE SAME TYPE AND USE SHALL BE FROM A SINGLE MANUFACTURER.
- PROTECT STORED MATERIALS AND EQUIPMENT FROM WEATHER.
- IF HVAC EQUIPMENT IS OPERATED DURING CONSTRUCTION, PROVIDE TEMPORARY FILTERS TO PROTECT AIR HANDLING EQUIPMENT.

1.7 SUBMITTALS:

- 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 ORDERLY MANNER. SUBMIT IN .PDF FORMAT VIA EMAIL.
- B. SUBMIT OPERATING AND MAINTENANCE MANUALS FOR EACH PIECE OF EQUIPMENT INSTALLED IN THIS PROJECT. INCLUDE COPIES OF SPECIFIC EQUIPMENT WARRANTIES IN MANUAL.
- 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.

1.8 PROJECT CLOSEOUT:

- A. REPLACE OR REPAIR DAMAGED EQUIPMENT AND CLEAN ALL EXPOSED SURFACES.
- B. TOUCH-UP SHOP APPLIED FINISHES TO RESTORE DAMAGED OR SOILED AREAS.
- INSTRUCT OWNER'S REPRESENTATIVE IN OPERATION AND MAINTENANCE OF EQUIPMENT UTILIZING OPERATION AND MAINTENANCE MANUAL. MINIMUM INSTRUCTION PERIOD SHALL BE TWO HOURS.
- D. REPLACE FILTERS IN AIR HANDLING EQUIPMENT AT TIME OF PROJECT TURNOVER TO OWNER.
- VACUUM INTERIORS OF DUCTWORK AND EQUIPMENT WHICH BECOMES DIRTY, PRIOR

TO PROJECT TURNOVER TO OWNER. CLEAN ANY DIRTY EQUIPMENT COILS.

2.1 PIPING SYSTEMS:

2. PRODUCTS

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

2.2 HVAC EQUIPMENT:

- A. REFER TO SCHEDULE SHEETS AND EQUIPMENT LIST FOR MANUFACTURERS AND MODEL NUMBERS.
- ALTERNATE MANUFACTURER'S ARE: LENNOX, YORK, DAIKIN, TITUS, CARRIER, PANASONIC, MITSUBISHI, TRANE, COOK, CARNES, TWIN CITY, ACME, METALAIRE
- C. PROVIDE MINIMUM MERV 8 RETURN AIR FILTERS FOR AIR HANDLING EQUIPMENT.

-ROUND OR OVAL DUCT TAP-IN WITH SPIN-IN COLLAR SA TRUNK DUCT LONG SWEEP FLEX OR -RIGID DUCT LLLLLLLL MIN 1.5" WIDE --> STRAP SUPPORT DAMPER--DRAW BAND RIGID ROUND-DUCT CONCEALED SA-FLEXIBLE DUCT. REFER TO SPECS FOR MAX. LENGTH OPPOSED BLADE T-BAR CEILING -*L*\\\\\\ DIFFUSER

BRANCH DUCT DETAIL NOT TO SCALE

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. 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.
- FACTORY BUILT WITH SASH LOCKS, BUTT HINGE, GASKET, 24 GA. DOOR AND
- 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 SEALANT.
- PROVIDE GALVANIZED STEEL SADDLE AT HANGERS SURROUNDING INSULATED
- DO NOT COMPRESS INSULATION EXCEPT IN AREAS OF STRUCTURAL
- 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
- SYSTEM BEING WELDED. 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.
- 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.
- 4. PIPING RUN IN CONCEALED AREAS SHALL BE LEAK TESTED PRIOR TO BEING CONCEALED. 5. SUBMIT WRITTEN REPORT OF TEST RESULTS.

3.2 HVAC EQUIPMENT:

- PROVIDE PERMANENT TAG ON EQUIPMENT INDICATING EXPIRATION DATE OF WARRANTIES. LOCATE TAG IN A READILY VISIBLE LOCATION.
- PROVIDE FACTORY AUTHORIZED START-UP OF EQUIPMENT AND SUBMIT TEST REPORTS. (INCLUDE IN O&M MANUAL). COMPLY WITH MANUFACTURER REQUIREMENTS AND NOTES STATED ON THE CONSTRUCTION DOCUMENTS FOR INSTALLATION OF EQUIPMENT. BALANCE THE OUTSIDE AIR CFM TO QUANTITIES LISTED.
- C. PACKAGED UNITS: CONNECT DUCTWORK TO UNITS WITH FLEXIBLE DUCT CONNECTORS
- PROVIDE 1" CONDENSATE DRAINS FROM COOLING COIL AND DISCHARGE TO GRADE INSTALL OUTSIDE AIR HOODS, ECONOMIZERS, DAMPERS, ETC., WHERE SPECIFIED. CONNECT CONTROL WIRING.
- COMB BENT FINS AND REPAIR DEFECTS IN EQUIPMENT FINISH AND PANELS.

SPLIT SYSTEM UNITS:

- SUPPORT INDOOR UNIT FROM STRUCTURE WITH ALL THREAD STEEL RODS AND SPRING TYPE VIBRATION ISOLATORS — INSTALL LEVEL. CONNECT DUCTWORK WITH FLEXIBLE DUCT CONNECTIONS. INSTALL TO ALLOW PROPER SERVICE ACCESS.
- PROVIDE DRAIN PAN BENEATH UNITS. SUPPORT PAN FROM FLOOR STRUCTURE. PROVIDE CONDENSATE DRAIN PIPING AND EXTEND TO HUB DRAIN OR TO EXTERIOR
- VERIFY TERMINATION POINT WITH LOCAL CODE OFFICIAL AND ARCHITECT. 4. CONNECT REFRIGERANT PIPING AND CONTROL WIRING.

3.3 AIR DISTRIBUTION:

- 1. SEAL JOINTS IN DUCTWORK WITH COATING OF HARDCAST SEALANT OR UL LISTED FSK DUCT TAPE.
- INSTALL INTERNAL ENDS OF SLIP JOINTS IN DIRECTION OF AIRFLOWS.
- MAXIMUM ANGLE OF OFFSETS AND TRANSITIONS SHALL NOT EXCEED 30 DEGREES. ADEQUATELY SUPPORT DUCT AS PER CODE REQUIREMENTS

-ELIMINATE SAGGING AND COMPRESSION OF DUCT.

TRANSITION DUCTS TO FIT EQUIPMENT. PROVIDE FLEXIBLE FLAME RETARDANT DUCT CONNECTIONS TO FURNACES AND GAS FIRED PACKAGED UNITS. 6. PROVIDE 1/2" THICK ACOUSTICAL SOUNDLINING IN RETURN AIR TRUNK DUCTS WITHIN TWENTY FEET OF RTU'S AND AHU'S. SECURE LINER TO DUCTS WITH

ADHESIVE AT 70% COVERAGE AND WITH MECHANICAL FASTENERS AT 18" CENTERS,

AND WITHIN 6" OF BUTT JOINTS AND EDGES OF DUCT. COAT ALL EXPOSED 'ROUGH'

LINER WITH MASTIC. ENLARGE DUCT TO ACCOMMODATE THE LINER - SIZES ON THE PLANS ARE INSIDE FREE AREA DIMENSIONS. USE LONG RADIUS RIGID DUCT FITTINGS AT ELBOWS IN FLEXIBLE DUCT EXCEEDING 60 DEGREE ANGLE. ELBOWS IN

FLEXIBLE DUCT LESS THAN 60 DEGREE ANGLE SHALL BE LONG SWEEP TYPE.

- B. INSULATE DUCT SYSTEMS PER CODE OR AS FOLLOWS, WHICHEVER IS MORE STRINGENT: WITHIN BUILDING STRUCTURE AND INSIDE OF BUILDING INSULATION ENVELOPE (OUTSIDE AIR, SUPPLY AND RETURN AIR DUCTS): ONE LB./CU.FT. DENSITY, 2" THICK FIBERGLASS, WITH FSK JACKET; OR WITH 3/8" THICK FOIL FACED AIR CELL INSULATION, REFLECTIX OR EQUAL.
- INSULATE SUPPLY AIR AND RETURN AIR DUCTS OUTSIDE OF BUILDING INSULATION WITH 3" THICK FIBERGLASS WITH FSK JACKET - MINIMUM R = 8.0 INSTALLED.
- EXHAUST AIR DUCTS: DO NOT INSULATE. SECURE INSULATION TO DUCTS W/ ADHESIVE AT 60% COVERAGE AND SECURE WITH MECHANICAL FASTENERS AND WASHERS AT 18" CENTERS — SEAL VAPOR BARRIER. INSULATE EXTERIOR SA AND RA DUCTS WITH TWO-1" THICK LAYERS OF CLOSED CELL RUBBER-SEAL JOINTS WEATHERTIGHT. PROVIDE BLOCKING TO PITCH TOP AT 4%

SLOPE. TOP LAYER SHALL OVERLAP SIDES. PROVIDE EPDM RUBBER JACKET OVER

- DAMPERS: ACTUATORS AND PUSH-RODS SHALL BE ACCESSIBLE. ACTUATORS AND PUSH-RODS SHALL BE ACCESSIBLE. PROVIDE COMBINATION DAMPER/EXTRACTOR/SPIN-IN FOR ROUND DUCT CONNECTIONS TO TRUNK DUCTS. PROVIDE 45 DEGREE BEVEL INLET WITH BALANCE DAMPER FOR RECTANGULAR DUCT CONNECTIONS TO TRUNK DUCT.

INSULATION WITH SEAMS AND JOINTS SEALED WEATHERTIGHT.

- DAMPER ADJUSTMENT TO BE LOCATED ON BOTTOM SIDE OF DUCT. D. ACCESS DOORS - PROVIDE IN DUCT FOR ACCESS TO COILS. FILTERS, FIRE & MOTORIZED DAMPERS. AND ALL OTHER EQUIPMENT NOT OTHERWISE ACCESSIBLE. INSTALL TO ALLOW
- E. BALANCE AIR DISTRIBUTION TO WITHIN 10% OF DESIGN AND SUBMIT REPORT. REPORT SHALL IDENTIFY ZONES, DESIGN AIRFLOWS AND FINAL AIRFLOWS

- C. ROUTE CONDUCTORS NEATLY AND PARALLEL OR PERPENDICULAR TO BUILDING
- D. SEQUENCE OF CONTROL
- FOR HEAT PUMP, BLOWER AND HEAT COMPRESSOR SHALL BE ENABLED.
- SMOKE DETECTOR TO DISABLE APPLICABLE UNITS AND ACTIVATE ALARMS IN CASE OF ABNORMAL SMOKE CONDITION. BLOWER TO RUN CONTINUOUSLY IN OCCUPIED MODES AND CYCLE WITH THE



Lic. No. 0402 043863 8/11/22 revisions:

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HVAC

SPECIFICATIONS

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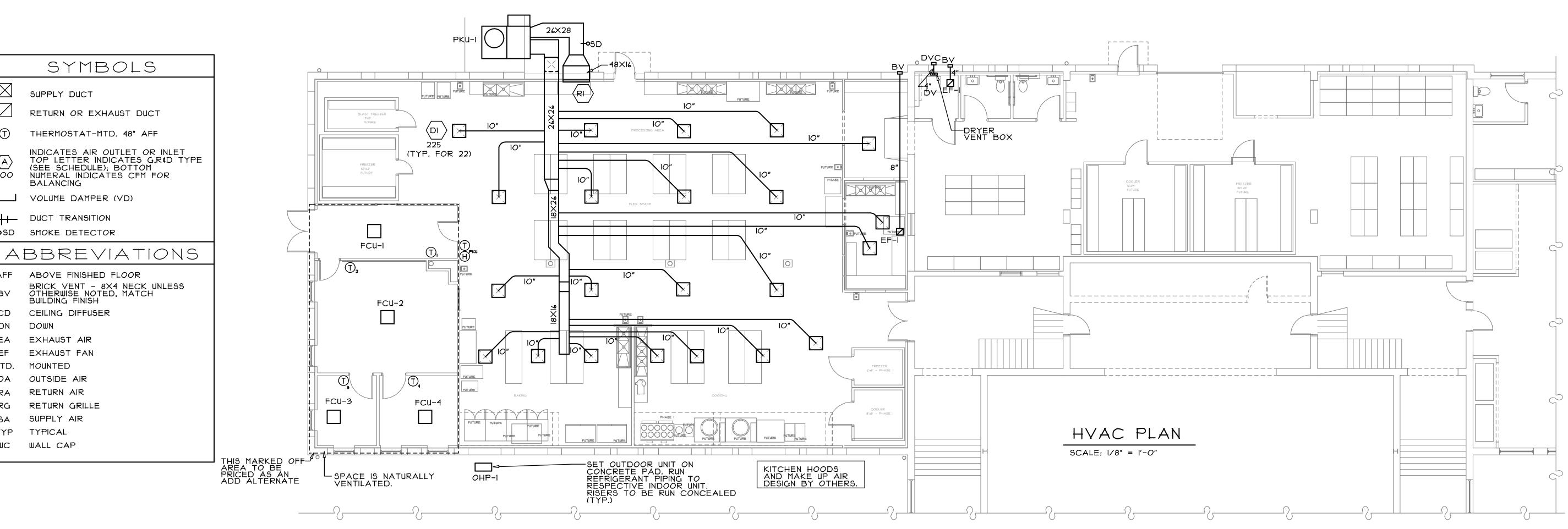
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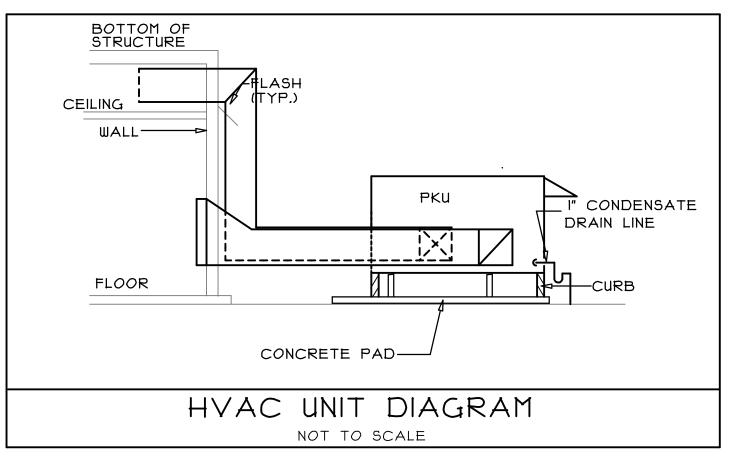
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HVAC PLAN AND SCHEDULES

M1.1





EQUIPMENT LIST

EQUIPMENT: EQUIVALENT MANUFACTURERS MAY BE SUBSTITUTED. EQUIPMENT TO BE UL OR ETL LISTED.

SYMBOLS

RETURN OR EXHAUST DUCT

THERMOSTAT-MTD. 48" AFF

SUPPLY DUCT

BALANCING

DUCT TRANSITION

→SD SMOKE DETECTOR

____ VOLUME DAMPER (VD)

ABOVE FINISHED FLOOR

CEILING DIFFUSER

EXHAUST AIR EXHAUST FAN

DOWN

MOUNTED

OUTSIDE AIR RETURN AIR

SUPPLY AIR

WALL CAP

TYP TYPICAL

RETURN GRILLE

CD DN

OA

WC

THERMOSTAT- SHALL BE 24 VAC. HEATING-COOLING AUTO-CHANGEOVER TYPE, 1 DAY PROGRAMMABLE, (SUITABLE FOR HEAT PUMP USE), OVERRIDE TIMER W/ AUX. CONTACT TO CONTROL OA MOD, MULTI-STAGE HEAT/COOL, HONEYWELL OR EQUAL.

EF-I - CENTRIFUGAL CEILING EXHAUSTER, 120 VAC, BACKDRAFT DAMPER, SAFETY SWITCH, 300 CFM 9 0.3" SP, 905 RPM, 212 WATTS, ACME VQ300.

-SD - DUCT MTD. SMOKE DETECTOR, UL LISTED, IONIZATION TYPE, WITH DUCT SENSING PROBE, DPDT, 120 VAC. INSTALL DETECTOR AND INTERLOCK WITH BLOWER TO DISABLE ON ABNORMAL SMOKE CONDITION. PROVIDE AUDIBLE AND VISUAL ALARM DEVICES AND TROUBLE SIGNALS PER LOCAL CODE REQUIREMENTS. INTERLOCK ALL DEVICES. FENWALL, GAMEWELL, SIMPLEX OR EQUAL.

DVB - DRYER VENT BOX, DOWN/UP VENT CONNECTION, HIGH IMPACT POLYSTYRENE, TO FIT IN A 2X4 WALL. CONSTRUCTION SOLUTIONS DBXIOOO. ALL DRYER VENT CONNECTIONS SHALL HAVE A DRYER VENT BOX

GRILLES, REGISTERS, DIFFUSERS AND LOUVERS											
TYPE	PE DESCRIPTION NECK FRAME FINISH MFR. MDL. REMARK										
DI	4-WAY CEILING DIFFUSER	12X12	T-BAR LAY-IN	WHITE	NAILOR IND. 6500-L-4A-AW-4215	24" SQUARE PANEL					
RI	RETURN AIR GRILLE	48×48	FLANGE	WHITE	NAILOR IND. 6145H-S-AW						
LI	EXHAUST AIR LOUVER	I2XIO	CHANNEL	SEL. BY ARCHIT.	NCA MDL. XAD-4-45	W/ BIRDSCREEN					

PACKAGED HVAC EQUIPMENT SCHEDULE CFM21 NOMINAL SENSIBLE FLA MOCP WEIGHT MODEL ESP. ZONE SEER VOLTS MCA REMARKS OA CFM SPEED TONS COOLING BTUH INPUT EFF. CARRIER MDL. BELT 12.5 034567 109,500 BTU 73 IO.8 EER 80 208/3 2500 PKU-I 224,000 82% 4950 1.0" 200 DRIVE 48TCEEI4

- NOTES: WITH REFRIGERANT HIGH AND LOW PRESSURE SWITCHES, REFRIGERANT LINE FILTER DRIER, COMPRESSOR TIME DELAY RELAY, COMPRESSOR CRANKCASE HEATER. R-410A REFRIGERANT, TXV.
- 2 APPROXIMATE CFM AIRFLOW REFER TO PLAN FOR EXACT NUMBERS FOR AIR BALANCE
- 3 W/ RA CO2 SENSOR

SWITCHES, REFRIGERANT LINE AY, COMPRESSOR	4	PROVIDE OA INTAKE HOOD W/ INLET FILTER, 14" ROOF CURB, 35% EFF. RA FILTERS	
	5	W/ HOTGAS REHEAT COIL AND DEHUMIDIFICATION CONTROLS	

(W/ O-100% OA ECONOMIZER, POWER EXHAUST, ENTHALPY CONTROLLED

BTUH

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- (1) W/ VOLTAGE PHASE LOSS MONITOR

40MBCQ09-3

				<u> </u>	_	i	i	i											
	OUTDOOR	NOMINAL	DATED.	BATER		o.u. o.u.										INDOOR UNI	Τ		
ZONE	HEAT	TONS	RATED COOLING	RATED HEATING	SEER	VOLTS	MCA/ I.U. I.U.	I.u. I.u.		CFM	MIN.		RA.	TED	BLOWER	VOLTS	FLA		
	PUMP						MOP	NAME	MODEL NO.		OA	ESP.	COOLING TOTAL	HEATING	SPEED	70210			
OHP-I	CARRIER 38MGRQ36D-3	3	45 <i>020</i> BTuH	50350 BTUH	21.5	208/1	35 50	FCU-I	CARRIER 40MBCQ09-3	380	0	N/A	9000 BTUH	9,5 <i>00</i> BTUH	HIGH	208/1	0.2		
PROVIDE ALL F ETC. AS REQUI	PROVIDE ALL PIPING, CONTROL KIT, W/ WIRED WALL MOUNTED ROOM THERMOSTAT, WYE FITTINGS, ETC. AS REQUIRED FOR A COMPLETE OPERATING SYSTEM, W/ INTERNAL CONDENSATE PUMPS.					TINGS, S.	FCU-2	CARRIER 40MBCQI8-3	420	0	N/A	17.000 BTUH	17,500 BTUH	HIGH	208/1	0.2			
(NOTE) VOLTAC	(NOTE) VOLTAGE SUPPLIED FROM THE OUTDOOR UNIT TO THE INDOOR FCU CASSETTES							FCU-3	CARRIER 40MBCQ09-3	320	0	N/A	9000 BTUH	9,500 BTUH	HIGH	208/1	0.2		
								FCU-4	CARRIER	320	0	N/A	9000	9,500	HIGH	208/1	0.2		

WESLEY FRANKLIN SIEVER Lic. No. 0402 043863 8/11/22 REVISIONS:

CHECKED: CALE:

DATF: 8-11-22 PROJECT #: 22017 **ELECTRICAL SPECIFICATIONS**

NONE

ELECTRICAL SPECIFICATIONS

. 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:

TRICAL 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.

1.4 CONFORMANCE TO REGULATIONS:

UNSATISFACTORY CONDITIONS HAVE BEEN RESOLVED.

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

1.6 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 O&M 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.

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. 1. 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

2.I 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.

2.7 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 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). INSTEXPOSED 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 OR 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 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:

A. SPLICE CONDUCTORS NO. 10 AND SMALLER WITH STEEL SPRING WIRE CONNECTOR WITH THERMOPLASTIC 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. 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 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. **E.** do not share neutral conductors for 120 volt circuits. 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. 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.

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, 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 GFCI 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.

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.

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.II DEMOLITION:

3.10 EMPTY CONDUIT SYSTEMS:

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 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 I. MAINTAIN CONTINUITY TO REMAINING DEVICES AND FIXTURES ON ALTERED CIRCUITS AS REQUIRED.



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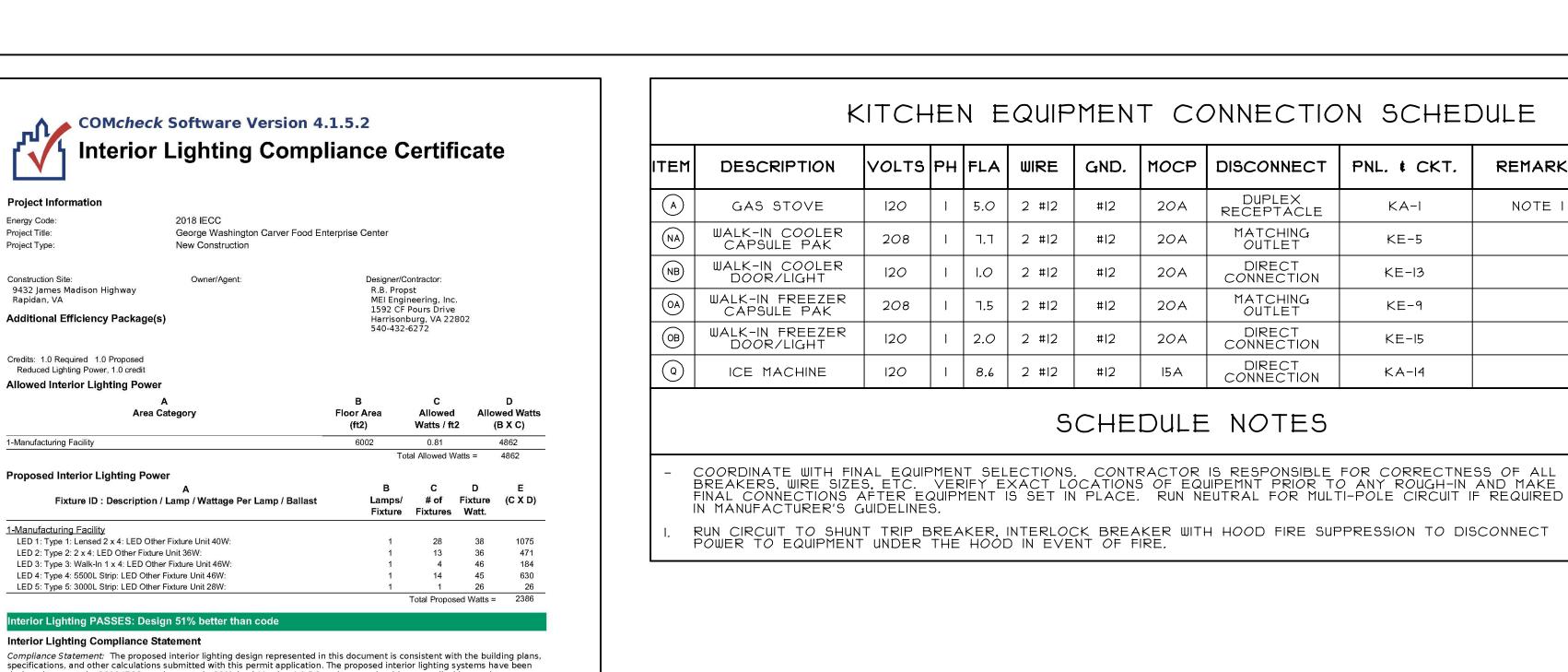
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CHECKED: SCALE: NONE DATE: 08-11-22 PROJECT #:

> ELEC. SCHEDS. and risers

> > E0.2



Project Information

Energy Code:

Project Title:

Project Type:

Construction Site:

Rapidan, VA

1-Manufacturing Facility

requirements listed in the Inspection Checklist.

Project Title: George Washington Carver Food Enterprise Center

COMcheck Software Version 4.1.5.2

2018 IECC

New Construction

Data filename: M:\Current\2022\22017\22017 Ltg.cck

R.B. PROPST

Project Information

Exterior Lighting Zone

9432 James Madison Highway

Allowed Exterior Lighting Power

Proposed Exterior Lighting Power

Entry canopy (21 ft2): Tradable Wattage

Entry canopy (23 ft2): Tradable Wattage

Entry canopy (21 ft2): Tradable Wattage

LED 1: Type 6: Surface Drum: LED Other Fixture Unit 13W:

LED 2: Type 6: Surface Drum: LED Other Fixture Unit 13W:

LED 3: Type 6: Surface Drum: LED Other Fixture Unit 13V

Exterior Lighting Compliance Statement

requirements listed in the Inspection Checklist.

R.B. PROPST

terior Lighting PASSES: Design 91% better than code

Project Title: George Washington Carver Food Enterprise Center

Data filename: M:\Current\2022\22017\22017 Ltg.cck

Area/Surface Category

(a) Wattage tradeoffs are only allowed between tradable areas/surfaces

Fixture ID : Description / Lamp / Wattage Per Lamp / Ballast

Construction Site:

Rapidan, VA

Entry canopy

Entry canopy Entry canopy

Energy Code:

Project Title: Project Type:

designed to meet the 2018 IECC requirements in COMcheck Version 4.1.5.2 and to comply with any applicable mandatory

RB Propp

Exterior Lighting Compliance Certificate

George Washington Carver Food Enterprise Center

MEI Engineering, Inc. 1592 CF Pours Drive

Watts / Unit

0.25

Total Allowed Supplemental Watts (b) =

Total Tradable Watts (a) = Total Allowed Watts =

Harrisonburg, VA 22802 540-432-6272

D Allowed Tradable Allowed Watts

Wattage

Lamps/ # of Fixture (C X D)

Fixture Fixtures Watt.

Total Tradable Proposed Watts =

8-11-22

Report date: 07/28/22 Page 2 of 8

DATE

(B X C)

2 (Neighborhood business district (LZ2))

(b) A supplemental allowance equal to 400 watts may be applied toward compliance of both non-tradable and tradable areas/surfaces.

Compliance Statement: The proposed exterior lighting design represented in this document is consistent with the building plans,

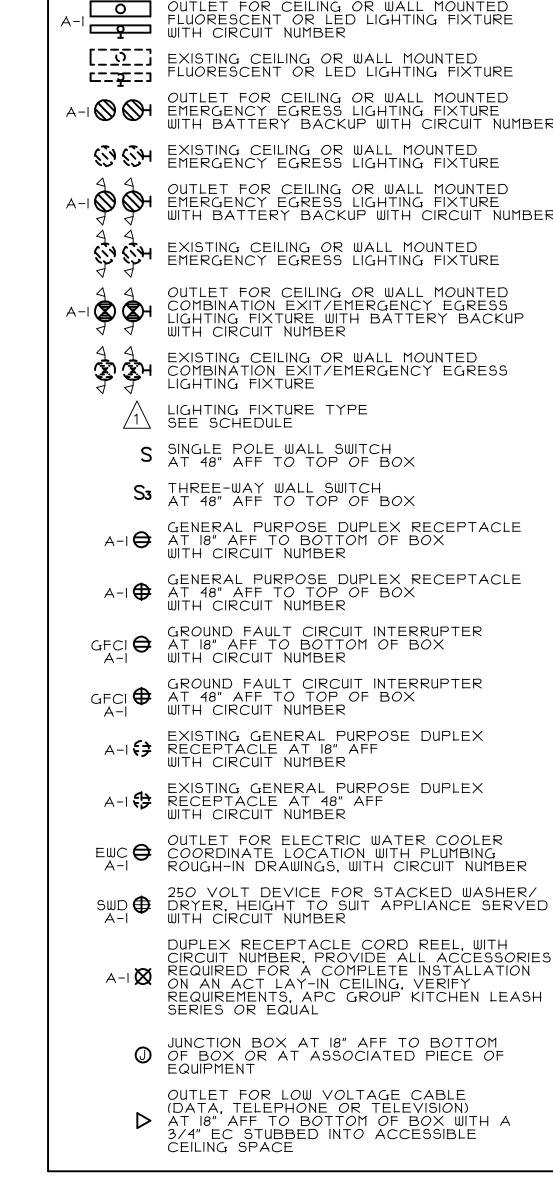
specifications, and other calculations submitted with this permit application. The proposed exterior lighting systems have been

designed to meet the 2018 IECC requirements in COM*check* Version 4.1.5.2 and to comply with any applicable mandatory

8-11-22

Report date: 07/28/22

Page 1 of 8



DISCONNECT

DUPLEX RECEPTACLE

OUTLET

DIRECT

CONNECTION

MATCHING

OUTLET

DIRECT

CONNECTION

DIRECT

CONNECTION

15 A

PNL. & CKT.

KA-I

KE-5

KE-l3

KE-9

KE-I5

KA-14

REMARKS

NOTE I

OUTLET FOR CEILING OR WALL MOUNTED FLUORESCENT OR LED LIGHTING FIXTURE WITH CIRCUIT NUMBER CARD READER AT 48" AFF. COORDINATE ALL REQUIREMENTS WITH OWNER AND SECURITY SYSTEM PROVIDER PRIOR TO ANY ROUGH-IN. SEE CARD READER DETAIL. EXISTING CEILING OR WALL MOUNTED FLUORESCENT OR LED LIGHTING FIXTURE 120V-IPH. CONNECTION FOR DOOR CONTROLS, COORDINATE ALL REQUIREMENTS WITH SECURITY SYSTEM PROVIDER PRIOR TO ANY ROUGH-IN OUTLET FOR CEILING OR WALL MOUNTED EMERGENCY EGRESS LIGHTING FIXTURE WITH BATTERY BACKUP WITH CIRCUIT NUMBER WITH CIRCUIT NUMBER. SEE CARD READER EXISTING CEILING OR WALL MOUNTED EMERGENCY EGRESS LIGHTING FIXTURE SD DUCT MOUNTED SMOKE DETECTOR OUTLET FOR CEILING OR WALL MOUNTED EMERGENCY EGRESS LIGHTING FIXTURE MOTOR OUTLET WITH BATTERY BACKUP WITH CIRCUIT NUMBER EXHAUST FAN (120V-1PH)
FURNISHED AND INSTALLED BY HVAC EXISTING CEILING OR WALL MOUNTED EMERGENCY EGRESS LIGHTING FIXTURE WIRED BY ELECTRICAL (EF) EXISTING EXHAUST FAN OUTLET FOR CEILING OR WALL MOUNTED COMBINATION EXIT/EMERGENCY EGRESS LIGHTING FIXTURE WITH BATTERY BACKUP A-I PO PHOTOCELL, LOCATE IN ACCESSIBLE LOCATION AND SHIELD FROM SURROUNDING WITH CIRCUIT NUMBER LIGHT SOURCES, WITH CIRCUIT NUMBER EXISTING CEILING OR WALL MOUNTED PANELBOARD COMBINATION EXIT/EMERGENCY EGRESS LIGHTING FIXTURE EQUIPMENT CONNECTION DESIGNATION SEE SCHEDULE LIGHTING FIXTURE TYPE KITCHEN EQUIPMENT DESIGNATION SEE SCHEDULE S SINGLE POLE WALL SWITCH AT 48" AFF TO TOP OF BOX SWITCH LEG WIRING, 2 #12 - CROSS MARKS - INDICATE NUMBER OF CONDUCTORS IF MORE S3 THREE-WAY WALL SWITCH AT 48" AFF TO TOP OF BOX THAN TWO SWITCH LEG WIRING, 2 #12 - WITH ADDITIONAL GENERAL PURPOSE DUPLEX RECEPTACLE
A-I AT 18" AFF TO BOTTOM OF BOX ----- DIMMING CONTROL WIRING AS REQUIRED FOR FIXTURE SUPPLIED

SYMBOLS LIST

ENC EXISTING, NO CHANGE FSS/NFSS FUSIBLE/NON-FUSIBLE SAFETY SWITCH PKU PACKAGED A/C UNIT

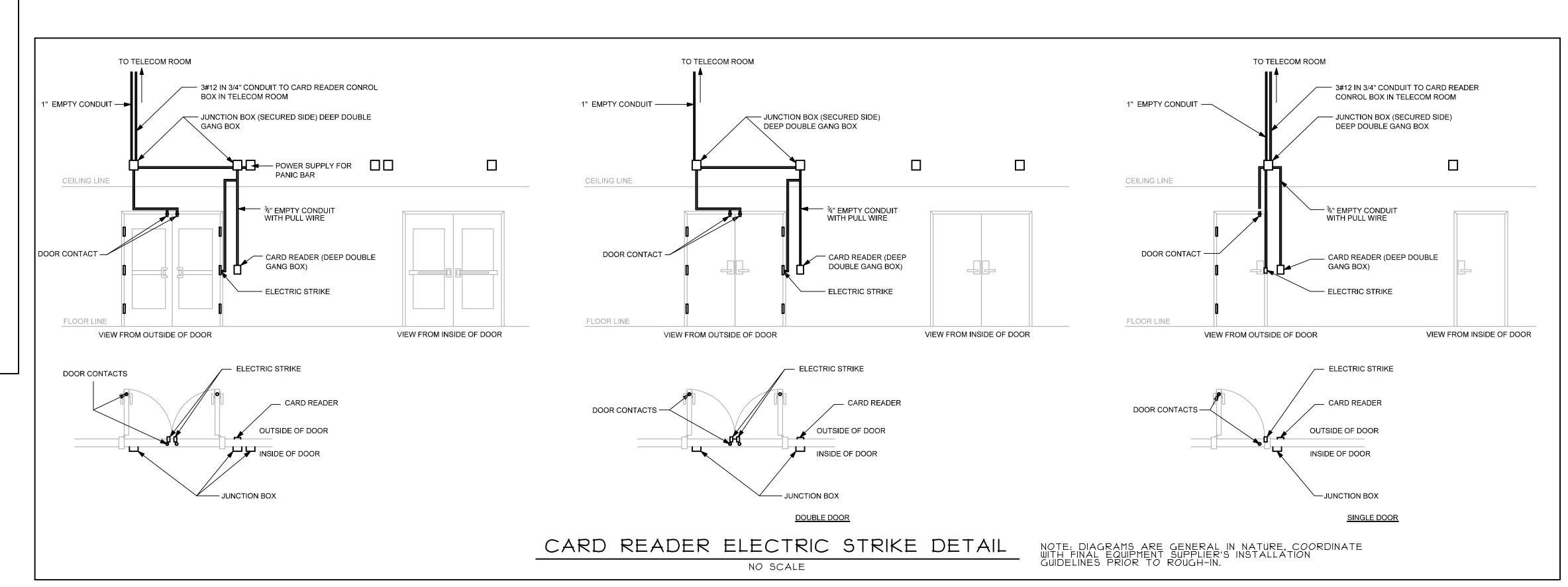
AFF ABOVE FINISHED FLOOR

C/EC CONDUIT/EMPTY CONDUIT

DROP TO SWITCH
SWITCH DESIGNATION AS INDICATED

WH WATER HEATER

WP WEATHERPROOF



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MEI
Engineering, Inc.
Mechanical - Electrical - Industrial Consultants
1592 CF Pours Drive Harrisonburg, VA 22802 (540) 432-6272
MEIengineeringinc.com



16125 RACCOON FORD RD CULPEPER, VIRGINIA 22701

540-829-2590

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PR	Lic. No. 0402 043863 8/II/22 SSIONAL ENGIN	GER.
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REVISIONS: DRAWN:

CHECKED:

NONE CALE: PROJECT #: ELEC. PANEL SCHEDULES

E0.3

						JEW C	DA NE	ΙΚΛ					
	.TS: 12 PS: 400			PHASE: 3 WIRES: 4 MAIN: LUGS ONLY									
BRKR		DESCRIPTION		CIRCUIT		PI	HASE LOA	D		CIRCUIT			
Р	Α	DESCRIPTION	AMPS	DEMAND	NO.	Α	В	С	NO.	DEMAND	AMPS		
1	20	GAS STOVE (1)(2)	5.0	65%	1	13.3			2	100%	10.0	W	
		SHUNT TRIP	0.0	100%	3		10.0		4	100%	10.0		
1	20	FUT. GAS KETTLES (1)	10.0	65%	5			35.5	6	100%	29.0		
<u> </u>		SHUNT TRIP	9.6	100%	7	38.6			8	100%	29.0		
1	20	FUT. GAS BRAISING PAN (1)(2)	5.0	65%	9		5.0		10	100%	1.7	FC	
<u> </u>		SHUNT TRIP	0.0	100%	11			1.7	12	100%	1.7		
1	20	CORD REELS (2)	3.0	100%	13	11.6			14	100%	8.6		
1	20	CORD REELS (2)	3.0	100%	15		12.1		16	65%	14.0	F	
1	20	CORD REELS (2)	3.0	100%	17			8.9	18	65%	9.0		
1	20	CORD REELS (2)	3.0	100%	19	8.9			20	65%	9.0		
1	20	CORD REELS (2)	3.0	100%	21		13.4		22	65%	16.0	FU ⁻	
1	20	CORD REELS (2)	3.0	100%	23			3.0	24	65%	0.0		
1	20	CORD REELS (2)	3.0	65%	25	2.0			26	65%	0.0		
1	20	CORD REELS (2)	3.0	100%	27		12.4		28	65%	14.5	F	

_				
-	-			
CEPTACLE	20	1	1	
\RE	20	1	1	
T FREEZER	30	2	1	
-			1	
R/DRYER	30	2	1	
_			1	
\RE	20	1	1	
\RE	20	1	1	
\RE	20	1	1	
\RE	20	1	1	
∖RE	20	1	1	
∖RE	20	1	1	
'ISION		1	1	
'ISION		1	1	
'ISION	_	1	1	

A P

20 3

PROV 0.0 42 100% 0.0 PROVIS WITH INTEGRAL 160KA TVSS

MOUNTING: SURFACE

2 100% 47.6 FUT. DISHWASHER

8 65% 10.0 FUT 60 QT MIXER

47.6

14 100% 1.5 UTILITY RE

4 100%

6.5 12 65%

47.6 6 100% 47.6

24.0 24 100% 24.0

0.0 30 100% 0.0

0.0 36 100% 0.0

10 65% 10.0

16 100% 0.0

22 | 100% | 24.0 |

| 26 | 100% | 0.0

28 100% 0.0

32 | 100% | 0.0

34 | 100% | 0.0

38 100% 0.0

40 | 100% | 0.0

20.0 18 100% 20.0 FUT. 'BLAS'

NOTE: PANEL SIZE INCLUDES ALLOWANCE FOR FUTURE KITCHEN EQUIPMENT INCLUDING PASTEURIZER, BLANCHER, AND HOODS. PANEL IS FED FROM PANEL KA VIA FEED-THRU LUGS SQUARE D NQ OR EQUAL

PHASE: 3

0.0

0.0

0.0

9.6

2 20 FUT.CONVECTION OVEN (1) 9.6 65% 19 26.2

MAIN: LUGS ONLY

CIRCUIT

65%

65%

65%

100%

65%

100%

100%

100%

0.0 | 100% | 41

VOLTS: 120/208

DESCRIPTION

SHUNT TRIP

2 20 FUT.CONVECTION OVEN (1) 9.6

2 | 20 | FUT.CONVECTION OVEN (1) | 9.6

SHUNT TRIP

SHUNT TRIP

SPARE

SPARE

SPARE

SPARE

PROVISION

PROVISION

PROVISION

SEE SPEC. NOTES

AMPS: 400

P A

NEW PANEL KA2

PHASE LOAD

AMPS | DEMAND | NO. | A | B | C | NO. | DEMAND | AMPS

100.6 103.1 98.1

1 53.8

13 7.7

25 0.0

31 0.0

27

17 **|**

21

29

33

39

100% 35

0.0 100% 37 0.0

(1) - SHUNT TRIP CIRCUIT BREAKER

120V UNSWITCHED INPUT, SAME CKT. SERVING LIGHTS

|ITEM|

MULE LIGHTING ZONE INVERTER MODEL SPS-55/125-120/277-SD 120 VOLT, 55 WATT WALL MOUNTED

	NEW PANEL KA													
VOLTS: 120/208 PHASE: 3 WIRES: 4 MOUNTING: SURFACE AMPS: 400 MAIN: LUGS ONLY														
										П				
	$\overline{}$	DESCRIPTION		CIRCUIT	I		HASE LOAI			CIRCUIT		DESCRIPTION	BR	
P	A		AMPS	DEMAND	NO.	A	В	С	NO.	DEMAND	AMPS	<u> </u>	A	P
1	20	GAS STOVE (1)(2)	5.0	65%	1	13.3			2	100%	10.0	WTR. FILTRATION SYS.	20	2
		SHUNT TRIP	0.0	100%	3		10.0		4	100%	10.0		<u> </u>	
1	20	FUT. GAS KETTLES (1)	10.0	65%	5			35.5	6	100%	29.0	OHP-1	40	2
		SHUNT TRIP	9.6	100%	7	38.6			8	100%	29.0		<u> </u>	
1	20	FUT. GAS BRAISING PAN (1)(2)	5.0	65%	9		5.0		10	100%	1.7	FCU-1, FCU-2, FCU-3, FCU-4	15	2
		SHUNT TRIP	0.0	100%	11			1.7	12	100%	1.7		<u> </u>	
1	20	CORD REELS (2)	3.0	100%	13	11.6			14	100%	8.6	ICE MACHINE	20	1
1	20	CORD REELS (2)	3.0	100%	15		12.1		16	65%	14.0	FUT. 20 QT. MIXER (2)	20	1
1	20	CORD REELS (2)	3.0	100%	17			8.9	18	65%	9.0	REFRIGERATOR (2)	20	1
1	20	CORD REELS (2)	3.0	100%	19	8.9			20	65%	9.0	REFRIGERATOR (2)	20	1
1	20	CORD REELS (2)	3.0	100%	21		13.4		22	65%	16.0	FUT. VACUUM SEALER (2)	20	1
1	20	CORD REELS (2)	3.0	100%	23			3.0	24	65%	0.0	SPARE	20	1
1	20	CORD REELS (2)	3.0	65%	25	2.0			26	65%	0.0	SPARE	20	1
1	20	CORD REELS (2)	3.0	100%	27		12.4		28	65%	14.5	FUT. DEHYDRATOR (2)	20	1
1	20	CORD REELS (2)	3.0	100%	29			12.1	30	65%	14.0	FUT. DOUGH PROOFER (2)	20	1
1	20	CORD REELS (2)	3.0	100%	31	6.0			32	100%	3.0	KITCHEN COUNTER (2)	20	1
1	20	CORD REELS (2)	3.0	100%	33		4.5		34	100%	1.5	KITCHEN COUNTER (2)	20	1
1	20	CORD REELS (2)	3.0	100%	35			6.0	36	100%	3.0	KITCHEN COUNTER (2)	20	1
1	20	MEN HEAT	12.5	100%	37	15.5			38	100%	3.0	KITCHEN COUNTER (2)	20	1
1	20	WOMEN HEAT	12.5	100%	39		14.5		40	100%	2.0	PKU SMOKE DET.	20	1
1	20	WTR. HTR./RECIRC. PUMP	10.0	100%	41			15.0	42	100%	5.0	TELEVISION	20	1
1	20	RECEPTACLES (2)	3.0	100%	43	13.5			44	100%	10.5	RECEPTACLES	20	1
1	20	SPARE	0.0	100%	45		10.5		46	100%	10.5	RECEPTACLES	20	1
1	20	SPARE	0.0	100%	47			7.5	48	100%	7.5	RECEPTACLES (2)	20	1
1	20	SPARE	0.0	100%	49	6.0			50	100%	6.0	RECEPTACLES (2)	20	1
1	20	SPARE	0.0	100%	51	<u> </u>	8.0		52	100%	8.0	CHARGING STATION	20	1
1	20	SPARE	0.0	100%	53		0.0	8.0	54	100%	8.0	CHARGING STATION	20	1
1	20	SPARE	0.0	100%	55	8.0		0.0	56	100%	8.0	CHARGING STATION	20	1
1	20	SPARE	0.0	100%	57	<u> </u>	13.4		58	125%	10.7	LIGHTS	20	1
1	20	SPARE	0.0	100%	59		10.1	13.4	60	125%	10.7	LIGHTS	20	1
1		PROVISION	0.0	100%	61	0.0		10.7	62	100%	0.0	PROVISION		1
1		PROVISION	0.0	100%	63	J.0	0.0		64	100%	0.0	PROVISION	 	1
1		PROVISION	0.0	100%	65	 	0.0	0.0	66	100%	0.0	PROVISION		1
3	20	EMON SUB-METER (3)	1.0	100%	67	1.0		0.0	68	100%	0.0	PROVISION		1
			i e	i e	69	1.0	1.0		70	100%	0.0	PROVISION	†	1
			1.0 1.0	100% 100%	71		1.0	1.0	70	100%	0.0	PROVISION		1
		-	1.0	100%	11	404.0	1 4040		12	100%	I 0.0	FROVISION		
						124.3	104.8	112.0	ļ			WITH INTEGRAL 160KA TVSS		

NOTE: PANEL SIZE INCLUDES ALLOWANCE FOR FUTURE KITCHEN EQUIPMENT INCLUDING PASTEURIZER, BLANCHER AND HOODS. PANEL SHALL HAVE FEED-THRU LUGS SQUARE D NQ OR EQUAL

SEE SPEC. NOTES

PHOTOCELL ABOVE ROOF FACING NORTH

DAYLIGHT OVERRIDE

SEE PLAN

WIRING SCHEMATIC

NO SCALE

(1) - SHUNT TRIP CIRCUIT BREAKER (2) - GFI CIRCUIT BREAKER (3) - PROVIDE E-MON SUB METER AND INSTALL AS DIRECTED BY THE MANUFACTURER, LOCATE AS DIRECTED BY THE OWNER

VOLTS: 120/208

BRKR

P A

1 20

LIGHTING FIXTURE CONTROLS SYMBOLS LIST

PASSIVE INFRARED DUAL TECHNOLOGY MICROPHONIC LINE VOLTAGE CEILING MOUNT SENSOR, EXTENDED RANGE TYPE

PASSIVE INFRARED DUAL TECHNOLOGY MICROPHONIC LINE VOLTAGE WALL MOUNT SENSOR, AT 48" AFF TO TOP OF BOX, MANUAL "ON" AUTOMATIC "OFF"

PASSIVE INFRARED DUAL TECHNOLOGY MICROPHONIC LINE VOLTAGE WALL MOUNT SENSOR WITH O-IOVDC DIMMING CONTROL, AT 48" AFF TO TOP OF BOX, MANUAL "ON" AUTOMATIC "OFF"

OCCUPANCY SENSOR SUPPLIED AND AND MOUNTED ON LIGHT FIXTURE

ABOVE FINISHED FLOOR

LIST NOTES

- BE LEVITON
- ALL COMPONENTS AND WIRING SHALL BE AS RECOMMENDED BY THE MANUFACTURER.

ITED		TABLE MANUFACTURERS SHALL NSOR SWITCH.
ZONE INVERTER	2. ALL CO	MPONENTS AND WIRING SHALL B

3 AD HIST SENSITIVITY OVERDIDE SHITCHES (HILLEDE		REGOTTIERSES ST. THE TIMES TO TAKE TO
APPLICABLE) AND TIME DELAYS TO THE SATISFACTION OF THE OWNER.	3.	

1	PKU-I	208	3	78.0	3 #4	#8	80A	3P-IOOA-NFSS	KM-I	NEMA 3R
2	OHP-I	208	1	29.0	2 #8	#10	40A	2P-60A-NFSS	KA-6	NEMA 3R
3	GAS WATER HEATER	120	1	5.0	2 #12	#12	20A	TOGGLE SWITCH	KA-65	
4	FCU-I	208	1	0.4	2 #12	#12	15A	2P-3OA-NFSS	KA-IO	
5	FCU-2	208	1	0.5	2 #12	#12	15 A	2P-3OA-NFSS	KA-IO	
6	FCU-3	208	1	0.4	2 #12	#12	15A	2P-3OA-NFSS	KA-IO	
7	FCU-4	208	1	0.4	2 #12	#12	15A	2P-3OA-NFSS	KA-IO	
(8)	RECIRC. PUMP	120	1	5.0	2 #12	#12	20A	TOGGLE SWITCH	KA-65	NOTE I

- 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.

		LIGH	TING FIX	TURE	SCHEDULE											
TVDT	MANUFACTURER/CATALOG NO.		LAMPS		MOUNTING	254.242										
TYPE		NO.	TYPE	WATTAGE	MOUNTING	REMARKS										
\triangle	DAY-BRITE 2-T-G-43L-835-4-FS-02F-UNV-DIM	4300 LUMEN LED		38.4	RECESSED											
2	DAY-BRITE 2-FG-G-43L-835-4-DS-UNV-DIM	4300 LUMEN LED		4300 LUMEN LED		4300 LUMEN LED		4300 LUMEN LED		4300 LUMEN LED		4300 LUMEN LED 36.2		36.2	RECESSED	
3	DAY-BRITE 2-T-G-30L-835-2-FS-02F-UNV-DIM	3000 LUMEN LED		33.0	RECESSED											
4	DAY-BRITE FSS-4-55L-835-UNV-DIM	5500 LUMEN LED		45.0	SURFACE	SUSPEND TO 9'-O" AFF, NOTE A										
<u>\</u>	BROWNLEE 7156-X-B12-35K	1400 LUMEN LED		12.0	SURFACE											
4\$	CHLORIDE CLC-N-RW	FURNI	SHED W/FIXTURE		WALL ABOVE DOOR											
400	CHLORIDE CLU2-N-W	FURNI	SHED W/FIXTURE		WALL 7'-6" AFF											
400	CHLORIDE CLU2-N-W	FURNI	SHED W/FIXTURE		SURFACE											

NEW PANEL KE

PHASE LOAD

AMPS DEMAND NO. A B C NO. DEMAND AMPS

18.6

10.0

54.0 67.0 65.5

NEW PANEL KM

PHASE LOAD

AMPS DEMAND NO. A B C NO. DEMAND AMPS

1450

175.7 | 182.5 | 174.1 |

2 100%

4 100%

8 100%

14 100%

16 | 100%

26 100%

28 100% 10.0

100%

100%

100%

100%

100%

100%

100% 0.0

14 100% 0.0

16 | 100% |

12.0 24 100% 12.0

32 100%

40 100%

38 100% 0.0

1.0 42 100% 0.0

8.8 18 100%

20

22

26

34

0.0 30

100% 67.0

8.0

1 7.5 **1**

24.9 6 100%

186 | 12 | 100%

7.0 18 100%

5.0 24 100%

| 4 |

8

143.5 6

8.8 12

PHASE: 3

W-I CLR, CAPSULE PAK 7.7 100% 5

2 20 FUT. W-I FZR. CAPSULE PAK 10.7 100%

2 20 W-I FZR. CAPSULE PAK

1 20 W-I FZR. DOOR/LIGHT

1 20 FIRE ALARM PANEL (1)

SQUARE D NQ OR EQUAL

SEE SPEC. NOTES

VOLTS: 120/208

AMPS: 225

BRKR

SECURITY PANEL

SPARE

SPARE

PKU-1

OHP-2

SPARE

EXTERIOR LIGHTS

LIGHTS

SPARE

SPARE

SPARE

SPARE

SPARE

SPARE SPARE

SPARE

SQUARE D NQ OR EQUAL

SEE SPEC. NOTES

FCU-5. FCU-6. FCU-7. FCU-8

MAIN: LUGS ONLY

CIRCUIT

10.7 100%

7.7 100%

7.5 1 100%

1.0 100%

2.0 100%

0.0 100% 19

5.0 100% 21

5.0 100% 23

0.0 100% 25

0.0 100% 27

0.0 100% 29

PHASE: 3

MAIN: LUGS ONLY

CIRCUIT

78.0 100% 3

78.0 100% 5

0.8 100% 11

0.0 100% 15

1.0 125% 17

0.0 100% 21

0.0 100% 23

0.0 100% 27

0.0 100% 29

0.0 100% 33

0.0 100% 35

1.0 100% 39

1.0 100% 41

EMON SUB-METER (2) 1.0 100% 37 1.0

78.0 100% 1 132.0

29.0 | 100% | 7 | 33.0

0.8 100% 13 0.8

7.1 125% 19 8.9

0.0 100% 25 0.0

0.0 100% 31 0.0

MOUNTING: SURFACE

17.2 FUT. W-I FREEZER COND. 35 3

1.6 | FUT. W-I FREEZER EVAP. | 20 | 1

SPARE

GEN BATT HEATER

MOUNTING: SURFACE

PANEL KE

RECEPTACLES

AIR CURTAIN

SPARE

SPARE

SPARE

SPARE

SPARE

SPARE

WITH INTEGRAL 160KA TVSS

(2) - PROVIDE E-MON SUB METER AND INSTALL AS

(1) - GFI CIRCUIT BREAKER

DIRECTED BY THE OWNER

4.0 SECURITY SYS.

7.5 RECEPTACLES

20 | 100% | 5.0 | FUT. W-I FZR. CONTROLS | 20 | 1

22 125% 1.5 FUT. WALK-IN LIGHTS

10.0 30 100% 10.0 GEN. BATT. CHARGER 20 1

(1) - WITH RED HANDLE LOCK

A P

20 1

100 3

20 1

20 1

SCHEDULE NOTES

- ALL FIXTURES SPECIFIED HAVE AN INTERGRATED LED ARRAY.
- A. PROVIDE AND INSTALL CHAIN HANGERS AS REQUIRED.

MECHANICAL EQUIPMENT CONNECTION SCHEDULE										
DESCRIPTION	VOLTS	PH	FLA	WIRE	GND.	MOCP	DISCONNECT	PNL. & CKT.	REMARKS	
PKU-I	208	3	78 <i>.</i> 0	3 #4	#8	80A	3P-IOOA-NFSS	KM-I	NEMA 3R	
OHP-I	208	1	29.0	2 #8	#10	40A	2P-60A-NFSS	KA-6	NEMA 3R	
GAS WATER HEATER	120	1	5.0	2 #12	#12	20A	TOGGLE SWITCH	KA-65		
FCU-I	208	1	0.4	2 #12	#12	15 A	2P-3OA-NFSS	KA-IO		
FCU-2	208	1	0.5	2 #12	#12	15 A	2P-3OA-NFSS	KA-IO		
FCU-3	208	1	0.4	2 #12	#12	15 A	2P-3OA-NFSS	KA-IO		

SCHEDULE NOTES

EQUIVALENT FIXTURES ACCEPTED BY ALTERNATE MANUFACTURERS: COOPER, CREE, LITHONIA.

- ALL FINISHES SHALL BE SELECTED BY THE ARCHITECT.

ALL RECEPTACLES IN THE KITCHEN SHALL HAVE GFI PROTECTION VIA CIRCUIT BREAKER PER NEC 210.8.

120V-1PH. CONNECTION FOR AIR CURTAIN, VERIFY REQUIREMENTS WITH CURTAIN SUPPLIER. RUN TO CIRCUIT KM-24.

RE-WIRE EXISTING DUPLEX RECEPTACLE

PLATE WITH NEW.

MOUNTING HARDWARE.

REQUIRED.

BUILDING DEMARC LOCATION.

TO NEW CIRCUIT NOTED, VERIFY REQUIREMENTS. REPLACE DEVICE AND COVER

EXTEND EXISTING DUPLEX RECEPTACLE TO FACE OF NEW WALL FURRING AND RE-WIRE TO NEW CIRCUIT NOTED, REPLACE DEVICE AND COVERPLATE TO MATCH NEW CONTROL OF THE PROPERTY OF THE PROP

DUPLEX RECEPTACLE AND COMMUNICATIONS
OUTLET FOR MONITOR, VERIFY LOCATION
AND MOUNTING HEIGHT WITH THE OWNER
PRIOR TO ROUGHIAN. COORDINATE WITH

PROVIDE SEALS ON ALL CONDUITS ENTERING WALK-IN COOLERS AND FREEZERS.

2'-0" X 4'-0" X 3/4" FRT PLYWOOD EQUIPMENT SPACE WITH (2) I" EC'S RUN TO

208V-IPH. CONNECTION FOR WATER FILTRATION SYSTEM, VERIFY FINAL LOCATION AND REQUIREMENTS WITH THE OWNER PRIOR TO ROUGH-IN. RUN TO CIRCUIT KA-2.

JUNCTION BOX FOR SECURITY SYSTEM CONTROL PANEL. VERIFY FINAL LOCATION AND MOUNTING HEIGHT WITH OWNER PRIOR

LABEL BLANK COVER PLATE AND END OF CONDUIT TO FACILITATE FUTURE TRACING. LEAVE WITH PULL STRING.

LOCATION OF RELOCATED PANEL FOR ADD-ALTERNATE #2.

JUNCTION BOX IN WALL AT 18" AFF WITH 3/4" EC ROUTED UP AND OUT INTO OPEN CEILING SPACE ABOVE "FLEX SPACE". CONDUIT SHALL EXTEND BEYOND LAY-IN CEILING OF KITCHEN.

BASE BID: TRACE ALL CIRCUITS IN PANELS TO VERIFY NONE ARE TO REMAIN AFTER DEMOLITION. REMOVE PANEL BOARDS IN THIS LOCATION AND ASSOCIATED FEBRUARS/CIRCUITS.

ADD-ALTERNATE #2: IF ANY CIRCUITRY IN THESE PANELS IS TO REMAIN, RELOCATE ONE PANEL TO ELECTRICAL ROOM (SEE NOTE 12B) AND CONSOLODATE CIRCUITRY TO THIS PANEL. EXTEND FEEDER AND BRANCH CIRCUITS AS

REMOVE (3) 225A ELECTRICAL PANELS AND ASSOCIATED FEEDERS IN THIS AREA TO CLEAR SPACE FOR NEW WORK, FIELD VERIFY REQUIREMENTS.

STANDARD. VERIFY ALL REQUIREMENTS.

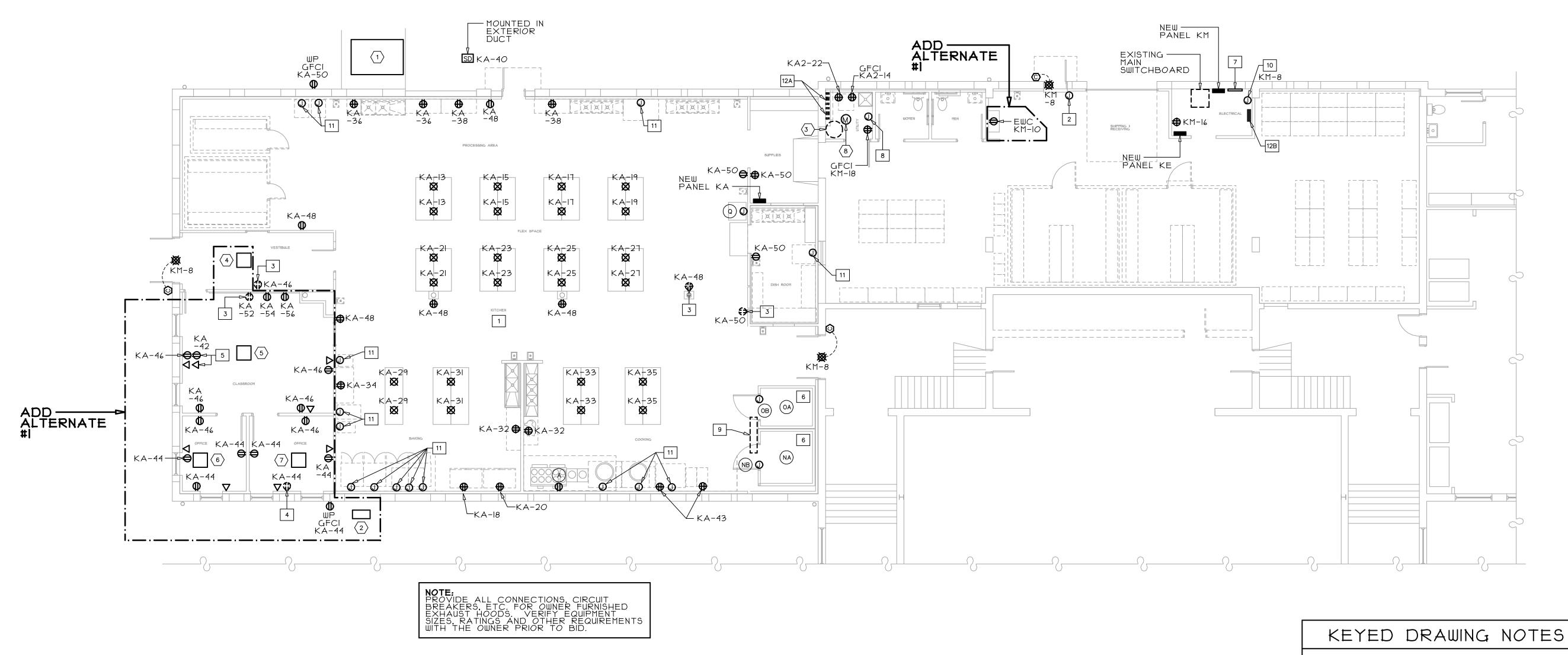
REVISIONS:

DRAWN:

DRAWN: RBF
CHECKED: WFS
SCALE: NOTED
DATE: 8-11-22
PROJECT #: 22017

POWER PLAN PHASE 1

E1.1



POWER PLAN - PHASE I

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

TOTAL AT 208V 3PHASE =

LOAD (KW)

LOAD (KW)

LOAD (KW)

LOAD (KW)

186.80

186.80

186.80

48.00

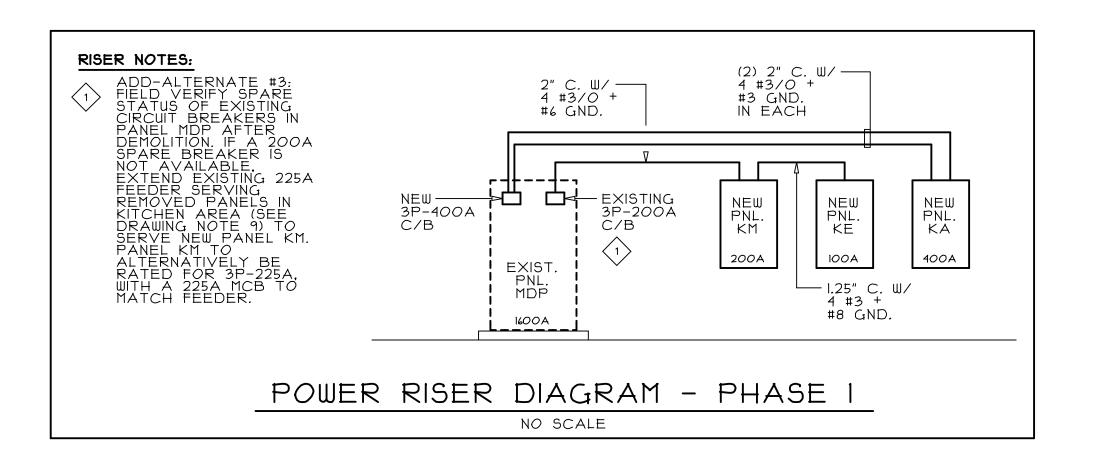
48.00

41.10

63.86

TOTAL AT 208V 3PHASE =

943.79 AMPS



GEORGE \
FOOD

WESLEY FRANKLIN
SIEVER
Lic. No. 0402 043863
8/II/22

REVISIONS:

DRAWN: CHECKED: SCALE: NOTED

DATE:

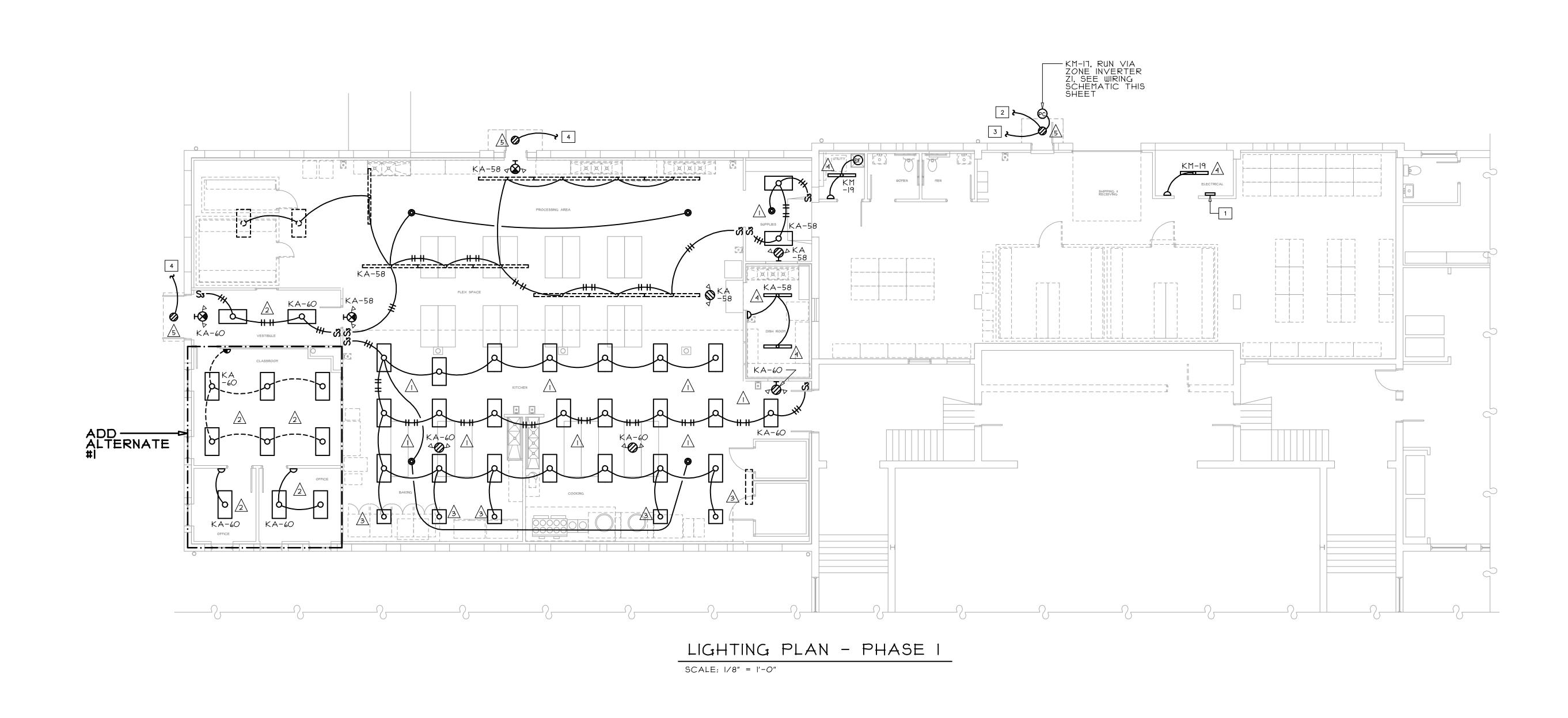
PROJECT #:

LIGHTING PLAN PHASE 1

08-11-22

22017

E2.1



KEYED DRAWING NOTES

- 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.
- TIE WITH LIGHT IN CANOPY AT KITCHEN EXTERIOR DOOR.
- TIE WITH LIGHT IN CANOPY AT VESTIBULE EXTERIOR DOOR.
- TIE WITH LIGHT IN CANOPY AT SHIPPING AND RECEIVING EXTERIOR DOOR.

1.1 DESCRIPTION OF WORK:

- A. 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. SANITARY SEWER
 - DOMESTIC WATER 3. LP GAS - 2 PSI

1.2 RELATED DOCUMENTS:

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

1.3 JOB CONDITIONS:

- 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.
- B. PROVIDE FITTINGS, OFFSETS, TRANSITIONS, AND ACCESSORIES REQUIRED TO MEET CONDITIONS OF THE PROJECT.
- C. PROVIDE SERVICE ACCESS FOR EQUIPMENT, CONTROL COMPONENTS, VALVES, AND SPECIALTIES.
- D. PROVIDE ACCESS PANELS FOR VALVES, ACCESS DOORS, ETC. CONCEALED BEHIND FINISHED SURFACES.

1.4 CONFORMANCE TO REGULATIONS:

A. WORK SHALL CONFORM WITH VIRGINIA UNIFORM STATEWIDE BUILDING CODE, NFPA, AND LOCAL ORDINANCES.

1.5 QUALITY ASSURANCE:

A. COMPLY WITH MANUFACTURER'S REQUIREMENTS AND NOTES AND DETAILS SHOWN HEREIN FOR INSTALLATION OF EQUIPMENT.

1.6 MATERIALS AND EQUIPMENT:

- 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 SUBSTITUTED PRODUCT INTO THE PROJECT.
- C. MATERIALS AND EQUIPMENT OF THE SAME TYPE AND USE SHALL BE FROM A SINGLE MANUFACTURER.
- D. PROTECT STORED MATERIALS AND EQUIPMENT FROM WEATHER.

1.7 UTILITIES AND CONNECTIONS:

- A. OWNER WILL PAY FOR ALL WATER, GAS AND SEWER UTILITY CONNECTION FEES.
- 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.

1.8 SUBMITTALS:

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

1.9 PROJECT CLOSEOUT:

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

2. PRODUCTS

2.1 PIPING SYSTEMS:

- 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.
- B. WATER SERVICE DUCTILE IRON.
- C. SANITARY DRAINAGE SCHEDULE 40 PVC WITH SOLVENT WELD FITTINGS, OR NO-HUB CAST IRON PIPING. HIGH TEMP DRAINAGE - NO-HUB CAST IRON PIPING.
- D. VENT PIPING SCHEDULE 40 PVC W/ SOLVENT WELD FITTINGS, OR COPPER DWV WITH 50/50 SOLDER FITTINGS.
- E. 1ST STAGE GAS PIPING -
- E. 2ND STAGE GAS PIPING SCHEDULE 40 BLACK STEEL.

2.2 PLUMBING FIXTURES AND EQUIPMENT:

A. REFER TO FIXTURE SCHEDULE AND EQUIPMENT LIST ON DRAWINGS FOR MANUFACTURER'S AND MODEL NUMBERS.

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 AND FIXTURES PRIOR TO ROUGH-IN.
- 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:
 - 1. DOMESTIC WATER 1/2" FIBERGLASS W/ ASJ UP TO 1.5"; 1" FIBERGLASS W/ ASJ OVER 1.5" PIPE SIZE. UNDERSLAB WATER - 3/4" CLOSED CELL RUBBER. HOT WATER - 1" FIBERGLASS W/ ASJ.
 - 2. SEAL VAPOR BARRIERS. SECURE WITH ADHESIVE AND SEAL JOINTS WITH

PROVIDE GALVANIZED STEEL SADDLE AT HANGERS SURROUNDING INSULATED

- 4. DO NOT COMPRESS INSULATION EXCEPT IN AREAS OF STRUCTURAL
- INTERFERENCE. 5. INSTALL PRE-FITTED PLASTIC ELBOWS OR APPLY CANVAS JACKET IN THREE
- LAYERS AT ELBOWS. 6. INSULATE FITTINGS, VALVES AND EQUIPMENT BODIES.
- 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 SYSTEM BEING WELDED.
- J. MAKE CONNECTIONS OF DISSIMILAR METALLIC PIPING WITH DIELECTRIC UNIONS.
- PROVIDE CHROME PLATED ESCUTCHEON FOR EXPOSED PIPING PENETRATING A FINISHED SURFACE.
- PROVIDE SHUT OFF VALVES AT EQUIPMENT CONNECTIONS. PROVIDE STOPS FOR ALL PLUMBING EQUIPMENT AND FIXTURES.
- HANGERS SUPPORTING COPPER PIPING SHALL BE COPPER PLATED OR PLASTIC COVERED. HANGERS SUPPORTING INSULATED PIPING SHALL BE SIZED TO SURROUND INSULATION AND STEEL SADDLE.
- PROVIDE VACUUM BREAKERS AT WALL HYDRANTS.
- O. NO PLASTIC PIPING IN STEAM VENT CHASE. PLASTIC PIPING TO BE RUN CONCEALED IN CONDITIONED SPACE ONLY.
- P. WATER MAIN TO BE SUB-METERED.
- Q. TEST 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

3.2 PLUMBING FIXTURES

- A. PROVIDE CHROME PLATED STOPS FOR FIXTURES.
- B. PROVIDE TAILPIECE AND TRAP WITH CLEANOUT FOR LAVATORIES AND SINKS.
- C. PROVIDE REMOVABLE CHROME PLATED BASKET STRAINER FOR SINKS.
- D. CAULK BETWEEN FIXTURE AND FINISHED SURFACES WITH WHITE SILICONE CAULKING.
- E. PROVIDE BOLT CAPS FOR WATER CLOSETS AND URINALS.
- F. MOUNT WALL CLEANOUTS AND PLUGGED OUTLETS AT 18" ABOVE FINISHED FLOOR UNLESS OTHERWISE NOTED ON DRAWINGS.

KITCHEN EQUIPMENT SCHEDULE

NO.	DESCRIPTION	W	V	CW	HW	GAS	REMARKS
$\langle A \rangle$	IO BURNER GAS STOVE W/ OVENS					ı	406 MBH INPUT
B	40 GALLON GAS KETTLE					3/4	IOO MBH INPUT
(C)	GAS BRAISING PAN W/ TILT					3/4	80 MBH INPUT
D	GAS POT BURNER					3/4	80 MBH INPUT
E	GAS FRYER					3/4	II4 MBH INPUT
F	GAS CONVECTION OVEN					(2) 3/4	ISO MBH INPUT
J	BLANCHER	2		1/2			INDIRECT WASTE TO FD
(a)	ICE MACHINE	(2) 		1/2			INDIRECT WASTE TO FS
R	DISHWASHER	2			3/4		INDIRECT WASTE TO FD

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

PLUMBING					$I \times I$	URE	SCHEDULE		
	D=0.00!D=1.011	W	V	CW	HW	MFR. MODEL		J _{NI} TC	
NO.	DESCRIPTION					FIXTURE	FITTINGS	ACCESS.	NTS
WI	ACCESSIBLE TANK TYPE WATER CLOSET	3	1.5	1/2		AMER. STD. 2467.016	PROVIDE CORRECT HANDLE ORIENTATION	SEAT: CHURCH 295SSC	1
LI	ACCESSIBLE WALL HUNG LAVATORY	1.5	1.5	1/2	1/2	AMER. STD. 0355.012	MOEN 8915	CARRIER: WADE 520 SERIES	1,2,3,4
HS	ACCESSIBLE WALL HUNG S/S HAND SINK	1.5	1.5	1/2	1/2	· ·	WNER INSTALLED ALLOWANCE OF \$500		1,2,3,4
PSI	S/S PRE-RINSE SINK W/ DRAIN BOARD RIGHT	1.5	1.5	1/2	1/2	SELECTED BY OWNER INSTALLED BY CONTRACTOR - ALLOWANCE OF \$1,500 TO FS		2	
3BS	THREE BOWL S/S SINK	1.5	1.5	1/2	1/2			INDIRECT WASTE TO FS	2
EWC	ACCESSIBLE ELEC. WATER COOLER	1.5	1.5	1/2		ELKAY LZSTL8WSLK			1,2
MB	MOP BASIN	3	1.5	1/2	1/2	FIAT MSB-2424 W/ 2-E-11-AA	FIAT 830-AA, 832-AA, 889C		2
WM	WASHING MACHINE	2	1.5	1/2	1/2		SIOUX CHIEF 696-2313WR		2
GWH	GAS WATER HEATER			3/4	3/4	A.O. SMITH BTH-199(A)	100 GAL. 199,900 BTU	EXPAN. TANK	
HB	HOSE BIBB WITH VACUUM BREAKER			3/4		NIBCO MDL.	WATTS 8A		2
WH	WALL HYDRANT			3/4		WOODFORD B65			2
WC0	WALL CLEANOUT	×				WADE 8480R			6
FCO	FLOOR CLEANOUT	×				WADE SERIES			6
COTG	CLEANOUT TO GRADE	4				WADE 6000-Z-5			5
FD	FLOOR DRAIN	×	×			WADE 1103STD6-27		W/ TRAP PRIMER	6
FS	FLOOR SINK	×	×			WADE 9143-6-15-27			6
ТD	TRENCH DRAIN	4				ZURN Z895-E4			
TV	TEMPERING VALVE			1/2	1/2	POWERS LFe480			4
PF	POT FILLER			1/2		T≰S BRASS B-0594			2

- INSTALL FIXTURES IN ACCORDANCE WITH APPLICABLE STANDARDS.
- PROVIDE PIPE INSULATION KIT. TRUEBRO MODEL 105W OR EQUAL.
- MOUNT IN 16" ROUND CONCRETE RING FLUSH W/ PAVEMENT OR GRADE.
- PROVIDE PROPER ACCESSORIES FOR WALL THICKNESS & CONSTRUCTION.

6. SIZE TO MATCH SEWER SERVED.

- 4. PROVIDE TEMPERING VALVE AT FIXTURES
- AS INDICATED ON PLAN OR RISERS.

LEGEND

- SOIL OR WASTE PIPING -GS- GREASE SOIL OR WASTE PIPING //// HIGH TEMP SOIL OR WASTE PIPING -W- WATER SERVICE PIPING - - VENT PIPING - COLD WATER PIPING ---- HOT WATER PIPING ---- HOT WATER RECIRC. PIPING

-G- GAS PIPING

CHECK VALVE

GAS COCK GAS REGULATOR \otimes

RISER MARK - SEE DIAGRAM

ABBREVIATIONS

EQUIPMENT MARK - SEE SCHEDULE

ABOVE FINISHED FLOOR

ABOVE FINISHED GRADE

WALL CLEANOUT

FLOOR CLEANOUT COTG CLEANOUT TO GRADE

VTR VENT THRU ROOF

WALL HYDRANT HOSE BIBB W/ VACUUM BREAKER

HOT WATER RECIRC.

GAS WATER HEATER

COLD WATER

HOT WATER

TEMPERED WATER TW

DN DOWN

HWR

WATER CLOSET

LAVATORY

FLOOR DRAIN FD FLOOR SINK

DRAINAGE FIXTURE UNIT

SUPPLY FIXTURE UNIT ROUGH-IN ONLY

AR ER ZÜ Ош RIS WASHINGT ENTERPRIS $\overline{\Omega}$ $\tilde{\alpha}$ Ш

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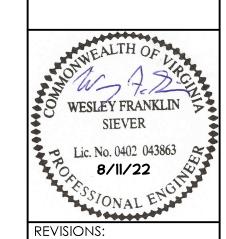
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CULPEPER, VIRGINIA 2270

540-829-2590

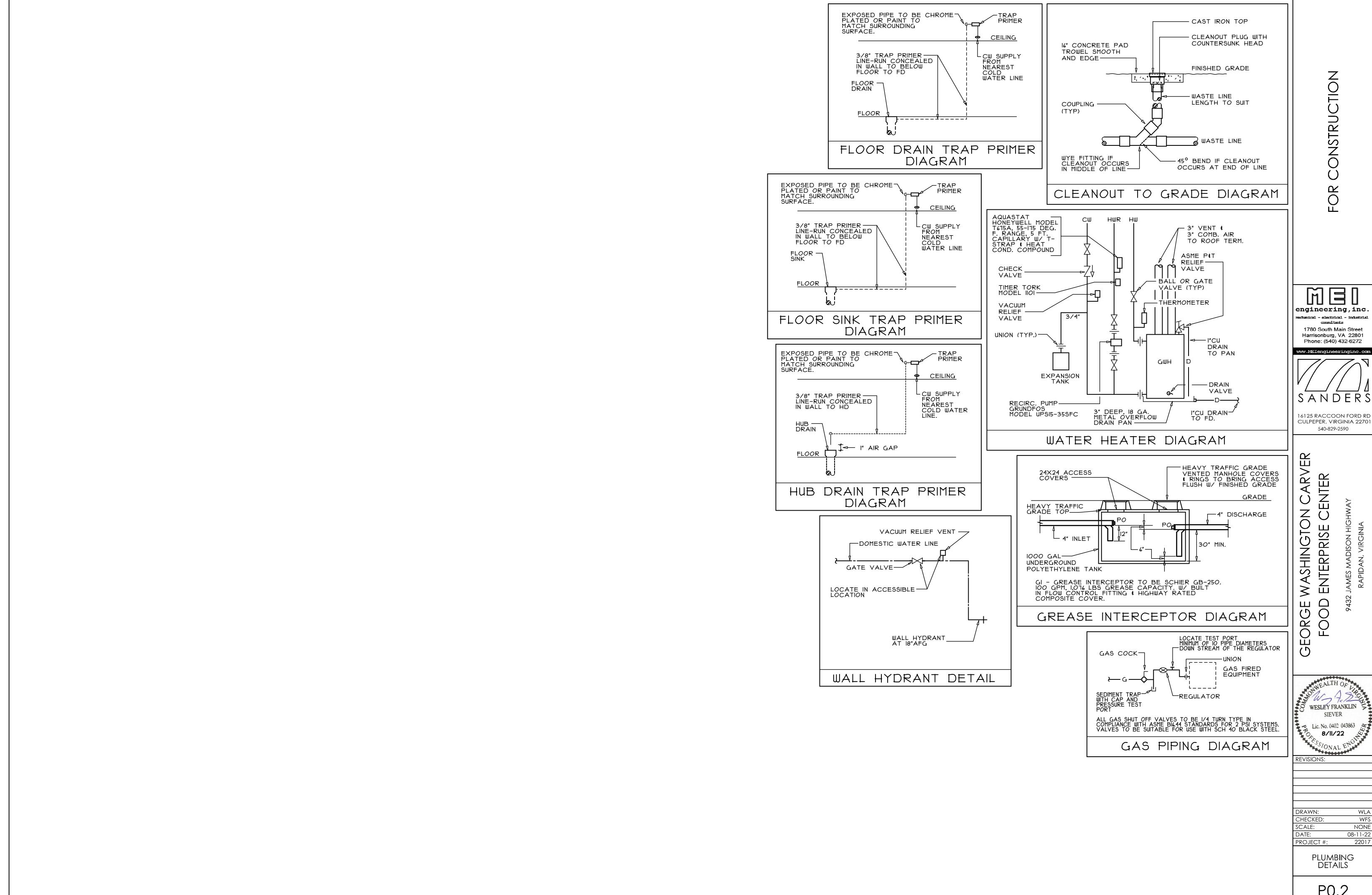


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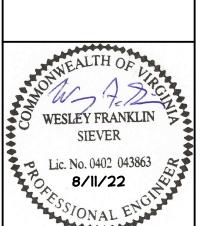
PROJECT #:

PLUMBING SPECS AND SCHEDULES

P0.1







WLA

P0.2

