

#### ADDENDUM NO. 1

Job Name: Knox County Emergency Operations

Project Number: 24-700-155-1

Date of Addendum: 5/30/2025

#### Licensed Architect State of Indiana Registration No. Click or tap here to enter text.

THIS ADDENDUM FORMS A PART OF THE CONTRACT DOCUMENTS AND IS ISSUED IN ACCORDANCE WITH THE INSTRUCTIONS TO BIDDERS. ACKNOWLEDGE RECEIPT OF THIS ADDENDUM BY SIGNING THE ADDENDUM ACKNOWLEDGEMENT SECTION OF YOUR PROPOSAL.

#### Drawings:

- 1. Revise Sheet G-100
  - a. Wall between Elect. 120 and MEP 119 shifted 1'-0" plan west.
- 2. Revise Sheet C200
  - a. Clarified the demolition of Duke owned light poles and added relocating existing mailboxes during construction.
- 3. Revise Sheet C500
  - a. Added new concrete equipment pads based on coordination with electrical and added the location for the relocated mailboxes
- 4. Revise Sheet S002
  - a. Note 3 modified
- 5. Revise Sheet S004
  - a. Detail 5 title changed
- 6. Revise Sheet S110
  - a. Plan note 11 added
  - b. Interior thickened slabs changed from 18" to 12"
  - c. Detail callouts for plumbing penetrations added



- d. Section of 30" thickened slab added
- 7. Revise Sheet AF101
  - a. Wall between Elect. 120 and MEP 119 shifted 1'-0" plan west.
- 8. Revise Sheet A-300
  - a. Insulation above ceiling changed to R-38 min.
- 9. Revise Sheet A-301
  - a. Insulation above ceiling changed to R-38 min.
- 10. Revise Sheet A-302
  - a. Insulation above ceiling changed to R-38 min.
- 11. Revise Sheet P210
  - a. Added two exterior wall hydrants. Revised hard water branch piping sizes to accommodate the changes.
  - b. Added domestic water booster pump and expansion tank. Revised water piping to accommodate the changes.
  - c. Added Hydrant Flow Test Data schedule.
- 12. Revise Sheet P600
  - a. Added domestic water booster pump to Pump Schedule.
  - b. Added ET-2 to Expansion Tank Schedule.
  - c. Added note to provide pressure gauges to Backflow Preventor Schedule.
- 13. Revise Sheet P801
  - a. Added domestic water booster pump detail.
- 14. Revise Sheet M210
  - a. Added motorized dampers to duct system serving F-1 for tie-in to clean agent system operation.
- 15. Revise Sheet M600
  - a. Added sequence of operation for HVAC system shutdown and motorized damper closure for operation with clean agent system in the dispatch room and server room.
- 16. Revise Sheets E010, E310, E410, E601
  - a. Replace above listed drawings in their entirety with attached modified drawings.

#### END OF ADDENDUM 1



## 

# LIFE SAFETY PLAN LEGEND

Room name 101	
AREA: 150 SF Occupancy Load: ## # of Exits: #	EGRESS INFORMATION TAG
LOCK	LOCK BOX
FACP	ANNUNCIATOR PANEL
FEC	FIRE EXTINGUISHER
<b>— · —</b>	1-HOUR FB RATED WALL (1-HR FB) [IBC 707]
	2-HOUR FB RATED WALL (2-HR FB) [IBC 707]

# **CODE SUMMARY**

KNOX CO. EOC - CODE ANALYSIS			
01.12.25			
APPLICABLE CODES:		2014 INDIANA BUILDING CODE (2012 IBC W/ IN 2014 INDIANA MECHANICAL CODE (2012 IMC W 2014 INDIANA FIRE CODE (2012 IFC W/ IN AMEN 2010 INDIANA PLUMBING CODE (2006 IPC W/ IN 2009 INDIANA ELECTRICAL CODE (2008 NEC W 2010 INDIANA ENERGY CONSERVATION CODE NFPA 13, 2016 EDITION NEPA 72, 2016 EDITION	AMEND) // IN AME ND) N AMEND // IN AME
PROJECT SCOPE:		THIS PROJECT IS A NEW, EMERGENCY OPERA FOR KNOX COUNTY. IT IS A ONE-STORY FACIL FRAMED WITH A	ATIONS ( ITY, WO
OCCUPANCY TYPE BY AREA PER PLAN (REFER TO SECS. 508.2.1 & 302.1):		FIRST FLOOR: 9,303 +/- SF (ACTUAL)	
OCCUPANCY CLASSIFICATIONS:	SEC. 304.1	"B" OCCUPANCY - OFFICE	
CODE STRATEGY:	SEC. 508.2 & 508.2.4	THE BUILDING IS DESIGNED USING TYPE V-B ( THE OCCUPANCY TYPE IS PRIMARILY B" WITH ACCESSORY OCCUPANCY.	CONSTR A ASSE
OCCUPANCY SEPARATIONS:	TABLE 508.4	NONE	
POTENTIAL VARIANCE(S):			
ALLOWABLE AREA FOR B, TYPE V-B CONSTRUCTION:	TABLE 503	9,000 SF	
	050 500 0	9,303 +/- SF	
FRONTAGE INCREASE:	SEC. 506.3	TOTAL ALLOWABLE IS 15,000 SF.	TOFRC
ALLOWABLE HEIGHT FOR B, TYPE V-B CONSTRUCTION:	TABLE 503	ALLOWABLE: 2-STORY, 40 FEET / ACTUAL: 1-S FEET +/-	TORY AT
HEIGHT INCREASE WITH SPRINKLER SYSTEM PER 903.3.1.1 (NFPA 13 SYSTEM):	SEC. 504.2	NO INCREASE ALLOWED - NOT SPRINKLERED	
OCCUPANCY SEPARATIONS:	TABLE 509	FURNACE ROOM WHERE ANY PIECE OF EQUIF 400,000 BTU PER HOUR OR ROOMS WITH BOIL THE LARGEST PIECE OF EQUIPMENT IS OVER HP - SEPARATED BY (1) HOUR FROM REMAINE BUILDING OR PROTECT WITH AUTOMATIC SPF	PMENT IS ERS WH 15 PSI A DER OF RINKLER
BUILDING ELEMENTS FOR TYPE V-B CONSTRUCTION:	TABLE 601 TABLE 705.8	PRIMARY STRUCTURAL FRAME BEARING WALLS: EXTERIOR: INTERIOR: EXTERIOR 1 HOUR LESS THAN 10 FEET, 0 INTERIOR: FLOOR ASSEMBLIES: ROOF ASSEMBLIES: UNLIMITED EXTERIOR OPENINGS PERMITTED SEPARATION DISTANCE OF AT LEAST 30 FEET	0 hours 0 hours 0 hours 0 hours 0 hours 0 hours 0 hours BASED
CONSTRUCTION TYPE:	SEC. 602.5	TYPE V-B CONSTRUCTION / NON-SPRINKLED	
SHAFT ENCLOSURES /	SEC. 713.4	1-HOUR, LESS THAN 4-STORIES	
ELEVATOR HOISTWAYS:			
SPRINKLER SYSTEM:	SEC. 903.2.8	NOT REQUIRED	
STANDPIPES:	SEC. 905.3.1	ISTANDPIPES NOT REQUIRED BASED ON HEIG	HTOF
FIRE ALARM STSTEM:	SEC. 907.2.9	STROBES/ALARMS REQUIRED FOR ADA	
SMOKE DETECTORS:	907.2.9.2	REQUIRED	
FIRE AND SMOKE DAMPERS:	SEC. 909.18.3	RATED DAMPERS SHALL MEET THE RATED IN AS REQUIRED.	STALLAT
OCCUPANT LOAD (BY CALC):	TABLE 1004.2	1	
FIRST FLOOR	B: 1/100 G	6,675 SF/100 = 66.75 = 67	
TRAINING ROOM	EDU: 1/20 N	1,392 SF/20 = 69.6 = 70	
DISPATCH	ASS: 1/20 N	1,236 SF/20 = 60.6 = 61	
TOTAL OCCUPANT LOAD		198 OCCUPANTS	
COMMON PATH OF TRAVEL:	TABLE 1014.3	COMMON PATH OF TRAVEL SHALL NOT EXCER OCCUPANT LOAD > 30.	ED 75 FT
MAX. EXIT TRAVEL DISTANCE:	TABLE 1016.2	200 FEET = NON- SPRINKLERED	
CORRIDORS:	TABLE 1018.1	1 HOUR, REQUIRED	
	TABLE 1018.2	MINIMUM WIDTH: 44-INCHES	
	TABLE 1018.4	DEAD END: 20 FT MAX - NO-SPRINK / 50 FT MA	X - SPRI
RISK FACTOR:	TABLE 1604.5	RISK CATEGORY IV	
PLUMBING FACILITIES, B-OCC:	TABLE 2902.1	TOTAL OCCUPANT LOAD OF 198 99 M / 99	W
WATER CLOSETS:	1/25 first 50	3 WC (M) + 3 WC (W) [M - Can substitute 1 U for	1 WC]
LAVATORIES:	1/40 first 80	3 LAV EA. FOR M & W	
SERVICE SINK	1/100	1 REQUIRED	











SCALE:1"=10'







### 1. ALL MASONRY WORK SHALL CONFORM TO THE REQUIREMENTS OF THE LOCAL BUILDING CODE, BUILDING CODE REQUIREMENTS OF MASONRY STRUCTURES (ACI 530-11/ ASCE 5-11/TMS 402-11) AND SPECIFICATIONS

2. REFER TO ARCHITECT'S DRAWINGS FOR THE EXTENT OF MASONRY WALLS. NON-LOADBEARING WALLS MAY

COMPRESSIVE STRENGTH OF 1900 PSI ON THE NET SECTION. ALL CMU SHALL BE LIGHTWEIGHT UNLESS

ALL CONTACT AREAS, INCLUDING HORIZONTAL CONTACT AREAS AND VERTICAL SIDES. 7. ALL GROUT SHALL CONFORM WITH ASTM C476 AND HAVE AN AVERAGE COMPRESSIVE STRENGTH OF 2500 PSI AT 28 DAYS (REFERENCE SPECIFICATION). CONCRETE SHALL NOT BE USED IN LIEU OF MASONRY GROUT.

A. GROUT SHALL COMPLY WITH ASTM C476 (MORTAR OR CONCRETE SHALL NOT BE USED TO FILL CMU

B. WEBS ADJACENT TO CORES TO BE GROUTED SHALL BE MORTARED. MORTAR SHALL BE STRUCK FLUSH WITH THE INSIDE FACE OF CORES TO BE GROUTED. CORES TO BE GROUTED SHALL BE CLEARED OF ALL MORTAR DROPPINGS AND OTHER DEBRIS PRIOR TO GROUTING.

E. CONSOLIDATE GROUT BY VIBRATING TWICE WITH A MECHANICAL VIBRATOR EACH LIFT. ONCE IMMEDIATELY AFTER POUR AND ONCE APPROXIMATELY 30 MINUTES AFTER GROUT IS INSTALLED. F. ALL REINFORCING STEEL SHALL BE INSPECTED IN PLACE BEFORE GROUTING AND THERE SHALL BE

9. UNLESS OTHERWISE NOTED, CENTER ALL VERTICAL REINFORCING IN CMU CORE AND HOLD IN POSITION WITH 10. THE MINIMUM LENGTH OF LAP FOR REINFORCING IN MASONRY WALLS UNLESS OTHERWISE NOTED SHALL BE

11. REFERENCE THE SPECIFICATIONS FOR HORIZONTAL JOINT REINFORCING SIZE AND SPACING.

12. ALL BOND BEAMS SHALL BE CONTINUOUS AND SHALL BE FILLED WITH GROUT AND CONTINUOUS

13. FOR BOND BEAM LINTEL REINFORCEMENT REQUIREMENTS, SEE TYPICAL DETAILS OR SECTIONS CUT ON

14. PROVIDE CONTROL JOINTS IN CONCRETE MASONRY WALLS AT 25'-0" O.C. MAXIMUM UNLESS NOTED OTHERWISE. ALL JOINTS SHALL BE LOCATED IN ACCORDANCE WITH NCMA TEK 10-2C "CONTROL JOINTS FOR

15. DISCONTINUE REINFORCING STEEL AT CONTROL JOINTS AND PROVIDE REINFORCEMENT AT CORNERS AND

16. REINFORCE AND GROUT CORES AT EACH JAMB OF MASONRY OPENINGS AS FOLLOWS:

#### 17. BEAMS AND LINTELS SHALL BEAR A MINIMUM OF 8 INCHES ONTO SUPPORTING MASONRY, UNLESS NOTED OTHERWISE. BEARING FOR ALL BEAMS, LINTELS, JOISTS, ETC. SHALL BE GROUTED SOLID A MINIMUM OF TWO

## 1. WHERE LINTELS ARE NOT SPECIFICALLY SHOWN OR NOTED ON THE STRUCTURAL OR ARCHITECTURAL DRAWINGS, PROVIDE THE FOLLOWING LINTELS OVER ALL OPENINGS AND RECESSES IN BOTH INTERIOR AND

2. ALL LOOSE LINTEL AND CONTINUOUS RELIEF ANGLES IN EXTERIOR WALLS SHALL BE HOT-DIPPED GALVANIZED

1. THE DESIGN FABRICATION AND ERECTION OF ALL PRECAST/PRESTRESSED HOLLOW CORE CONCRETE SLABS

2. H/C MEMBERS SHALL BE DESIGNED BY THE MANUFACTURER IN ACCORDANCE WITH ACI 318, PCI MNL-116 AND PCI MNL-120, FOR THE LOADS INDICATED PER THE "DESIGN CRITERIA NOTES:, AS WELL AS FOR ALL HANDLING

3. THE H/C MANUFACTURER SHALL BE A PCI CERTIFIED PLANT AND SHALL MAINTAIN DETAILED FABRICATION AND 4. THE H/C MANUFACTURER SHALL SUBMIT CALCULATIONS AND SHOP DRAWINGS, BEARING THE SIGNED AND

#### 5. ALL H/C CONCRETE SHALL HAVE A MINIMUM 28 DAY COMPRESSIVE STRENGTH OF 5000 PSI. MINIMUM COMPRESSIVE STRENGTH AT TRANSFER OF PRE STRESSING FORCE SHALL BE 3500 PSI. CONCRETE

6. ALL NON-SHRINK GROUT SHALL HAVE A MINIMUM 28 DAY COMPRESSIVE STRENGTH OF 75000 PSI AND SHALL

7. ALL CONCRETE TOPPINGS SHALL HAVE A MINIMUM 28 DAY COMPRESSIVE STRENGTH OF 3000 PSI, UNLESS OTHERWISE REQUIRED BY THE H/C MANUFACTURER. CONCRETE TOPPING SHALL HAVE A MAXIMUM

8. THE WELDED WIRE FABRIC (W.W.F.) INDICATED ON THE DRAWINGS IS INTENDED FOR CRACK CONTROL PURPOSES ONLY. THE H/C MANUFACTURER SHALL PROVIDE ADDITIONAL W.W.F OR REBARS IN THE TOPPING

9. UNLESS GREATER STRENGTH IS REQUIRED BY THE H/C MANUFACTURER, ALL REINFORCING MATERIALS

NIRE,	<u>ASTM</u> A 416	<u>MIN. STRENGTH</u> 250 KSI (ULT)	
	A 615 A 185	60 KSI 70 KSI	
			001

11. ALL WELD PLATES, INSERTS, ANCHOR BOLTS, WELDING, LIFTING HARDWARE, GROUT SLEEVES, ETC. SHALL BE DESIGNED AND PROVIDED BY THE H/C MANUFACTURER. UNLESS OTHERWISE NOTED, ALL CONNECTIONS EXPOSED TO EARTH OR WEATHER SHALL BE HOT-DIP GALVANIZED IN ACCORDANCE WITH ASTM A 153. 12. OPENINGS FOR MECHANICAL AND ELECTRICAL ITEMS SHALL BE CORE DRILLED THROUGH HOLLOW CELLS ONLY, IN ACCORDANCE WITH THE H/C MANUFACTURER'S RECOMMENDATIONS. ADDITIONAL REINFORCEMENT

13. THE CONTRACTOR SHALL PROVIDE HOLES OR OTHER PROTECTIVE MEANS TO ALLOW THE HOLLOW CELLS TO DRAIN ANY WATER ACCUMULATION THAT MAY OCCUR DURING THE PROCESS OF CONSTRUCTION.

## POST-INSTALLED ANCHORS

- 1. EXPANSION ANCHORS IN CONCRETE OR GROUTED CONCRETE MASONRY, IF NOT SPECIFICALLY CALLED OUT OR SHOWN ON THE DRAWINGS, SHALL BE HILTI KWIK BOLT TZ2. EQUIVALENT SUBSTITUTIONS MUST BE SUBMITTED IN ADVANCE TO THE EOR WITH COMPLETE PRODUCT DATA FOR CONSIDERATION.
- MECHANICAL ANCHORS IN HOLLOW CONCRETE MASONRY, IF NOT SPECIFICALLY CALLED OUT OR SHOWN ON THE DRAWINGS, SHALL BE HILTI HLC. EQUIVALENT SUBSTITUTIONS MUST BE SUBMITTED IN ADVANCE TO THE EOR WITH COMPLETE PRODUCT DATA FOR CONSIDERATION. . ADHESIVE/EPOXY ANCHORS IN CONCRETE, IF NOT SPECIFICALLY CALLED OUT OR SHOWN ON THE DRAWINGS,
- SHALL BE HILTI HIT-HY 200 V3 WITH HAS RODS. EQUIVALENT SUBSTITUTIONS MUST BE SUBMITTED IN ADVANCE TO THE EOR WITH COMPLETE PRODUCT DATA FOR CONSIDERATION.
- 4. ADHESIVE/EPOXY ANCHORS IN GROUTED OR HOLLOW CONCRETE MASONRY UNITS, IF NOT SPECIFICALLY CALLED OUT OR SHOWN ON THE DRAWINGS, SHALL BE HILTI HIT-HY 270 WITH HAS RODS. EQUIVALENT SUBSTITUTIONS MUST BE SUBMITTED IN ADVANCE TO THE EOR WITH COMPLETE PRODUCT DATA FOR CONSIDERATION.
- 5. ALL POST-INSTALLED ANCHORS WITH EXTERIOR EXPOSURE TO THE ELEMENTS IN THE FINISHED STRUCTURE SHALL BE STAINLESS STEEL UNLESS NOTED OTHERWISE.
- 6. IT IS THE CONTRACTOR'S RESPONSIBILITY TO REVIEW ALL OF MANUFACTURER'S INSTALLATION DATA AND REQUIREMENTS AND TO INSTALL POST-INSTALLED ANCHORS ACCORDING TO THESE REQUIREMENTS. INSTALLERS MUST BE TRAINED AND EXPERIENCED IN PROPER ANCHOR INSTALLATION TECHNIQUES FOR THE PRODUCT USED.
- 7. POST-INSTALLED ANCHORS MAY NOT BE INSTALLED IN CONCRETE UNTIL IT HAS ATTAINED ITS 28 DAY COMPRESSIVE STRENGTH AS INDICATED BY TEST CYLINDERS AND HAS CURED FOR AT LEAST 21 DAYS.
- 8. POST-INSTALLED ANCHORS MAY NOT BE INSTALLED IN CONCRETE MASONRY UNTIL MORTAR AND GROUT HAVE ATTAINED THEIR 28 DAY COMPRESSIVE STRENGTH AS INDICATED BY TEST CYLINDERS AND HAS CURED FOR AT LEAST 21 DAYS.
- 9. REINFORCING STEEL NOTED AS ADHESIVE OR EPOXY ANCHORED INTO EXISTING SUBSTRATE SHALL HAVE MINIMUM EMBEDMENT DEPTHS AS FOLLOWS UNLESS NOTED OTHERWISE: # 3 3 3/8" # 6 6 3/4" # 9 10 1/8" # 4 4 1/2" # 7 7 7/8" # 10 11 1/4" #555/8" #89"
- 10. IT IS THE CONTRACTOR'S RESPONSIBILITY TO REVIEW PLACEMENT OF ANCHORS IN CONCRETE MASONRY WALLS OR ANY CONCRETE MEMBER AND INSTALL IN ACCORDANCE WITH ALL OF MANUFACTURER'S REQUIREMENTS. THIS INCLUDES, BUT IS NOT LIMITED TO, EDGE DISTANCE, SPACING, NUMBER OF ANCHORS IN A CELL, ETC.

ENGINEERED WOOD FRAMING

- 1. LAMINTED VENEER LUMBER (LVL) AND PARALLEL STRAND LUMBER (PSL) ELEMENTS SHALL BE ULTRASONICALLY AND VISUALLY GRADED VENEERS ARRANGED TO SPECIFIC PATTERNS SO THAT NATURALLY OCCURRING DEFECTS HAVE NO CONCENTRATED EFFECT ON THE MEMBER'S PERFORMANCE. ELEMENTS SHALL BE FABRICATED WITH WATERPROOF ADHESIVE, BONDED UNDER PRESSURE AND HEAT.
- 2. LVL AND PSL MEMBERS SHALL BE FURNISHED WITH THE FOLLOWING PHYSICAL PROPERTIES AND MINIMUM ALLOWABLE STRESSES: MODULUS OF ELASTICITY (E) = 2,200,000 PSI FLEXURAL STRESS (F<sub>b</sub>) = 2,900 PSI
  - COMPRESSION PERPENDICULAR TO GRAIN (F<sub>cp</sub>) = 575 PSI COMPRESSION PARALLEL TO GRAIN (F<sub>c</sub>) = 2,900 PSI SHEAR STRENGTH  $(F_v) = 290 PSI$
- 3. HEEL CUTS ON BEAMS SHALL NOT OVERHANG THE INSIDE FACE OF SUPPORT MEMBER.
- 4. MEMBERS SHALL BE SECURELY BRACED DURING CONSTRUCTION. TEMPORARY BRACING SHALL BE ANCHORED TO THE GROUND, FOUNDATION, A BRACED WALL OR OTHER COMPLETED, STABLE SECTION OF THE STRUCTURE.
- 5. CONTRACTOR SHALL EXERCISE CAUTION WHEN REMOVING TEMPORARY BRACING WHEN APPLYING SHEATHING. REMOVE BRACING AS SHEATHING IS ATTACHED.
- 6. MEMBERS SHALL BE PROTECTED FROM THE WEATHER WHILE IN STORAGE. CARE SHALL BE EXERCISED DURING HANDLING TO PREVENT DAMAGE.
- 7. CONTRACTOR SHALL NOT ALTER LVL MEMBERS WITH NOTCHES OR HOLES WITHOUT THE AUTHORIZATION OF THE ENGINEER. ALL NOTCHES AND HOLES SHALL MEET THE MANUFACTURERS GUIDELINES AND REQUIREMENTS.
- 8. ALL ENGINEERED LUMBER ELEMENTS EXPOSED TO THE ELEMENTS SHALL BE PRESSURE TREATED.

## PRE-ENGINEERED WOOD TRUSSES

- 1. TRUSS MANUFACTURER SHALL DESIGN ALL FLOOR AND ROOF TRUSSES FOR ALL GRAVITY AND LATERAL LOADS SPECIFIED IN THE CONSTRUCTION DOCUMENTS AND IN THE PROJECT MANUAL. ALL TRUSSES SHALL BE DESIGNED BASED ON SERVICE LOAD CONDITIONS (ALLOWABLE STRESS DESIGN) ONLY. THE DESIGN SHALL BE COMPLETED BY A PROFESSIONAL ENGINEER LICENSED AS SUCH IN THE PROJECT JURISDICTION.
- TRUSS DESIGN SHALL INCLUDE CONSIDERATION OF TOP PLATE CRUSHING. ADDITIONAL PLIES OR CLOSER TRUSS/JOIST SPACING MAY BE REQUIRED. ALL TRUSS JOIST SPACING MODIFICATIONS MUST BE APPROVED BY THE ARCHITECT/EOR.
- 3. TRUSS MANUFACTURER SHALL SUBMIT CALCULATIONS AND DESIGN DRAWINGS FOR APPROVAL (INCLUDING LAYOUT AND PLACEMENT DRAWINGS). SUBMITTED CALCULATIONS AND DRAWINGS INCLUDING ALL LOADS REQUIRED FOR THE DESIGN OF THE TRUSSES, TRUSS PLACEMENT LOCATION, TRUSS CONNECTIONS AND CONNECTIONS TO THE MAIN STRUCTURE SHALL BEAR THE SEAL AND SIGNATURE OF THE TRUSS MANUFACTURER'S ENGINEER.
- TRUSS LENGTHS AND PROFILES SHALL BE COORDINATED WITH THE ARCHITECTURAL DRAWINGS PRIOR TO FABRICATION. CONFIGURATION AND SIZE OF WEB AND CHORD MEMBERS SHALL BE DETERMINED BY TRUSS MANUFACTURER. LOCATION, ORIENTATION AND PROFILES SHOWN IN THE CONSTRUCTION DOCUMENTS ARE FOR SCHEMATIC PURPOSES ONLY.
- 5. CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PROPERLY BRACE TRUSSES DURING LIFTING AND ERECTION. CONTRACTOR SHALL KEEP ALL TRUSSES LATERALLY BRACED UNTIL ALL FLOOR AND ROOF DIAPHRAGMS AND ALL PERMANENT BRACING ARE INSTALLED.
- 6. DESIGN AND FABRICATION CRITERIA OF ALL WOOD TRUSSES SHALL BE IN ACCORDANCE WITH THE "NATIONAL DESIGN SPECIFICATION FOR STRESS-GRADE LUMBER AND ITS FASTENINGS" BY THE NATIONAL FOREST PRODUCTS ASSOCIATION (LATEST EDITION AND REVISION), "TIMBER CONSTRUCTION STANDARDS" BY THE AMERICAN INSTITUTE OF TIMBER CONSTRUCTION (LATEST EDITION AND REVISION), AND THE "DESIGN SPECIFICATIONS FOR LIGHT METAL CONNECTED WOOD TRUSSES" BY THE TRUSS PLATE INSTITUTE.
- 7. MAXIMUM LIVE LOAD DEFLECTION SHALL BE SPAN/360 FOR ROOF TRUSSES AND SPAN/480 FOR FLOOR AND CORRIDOR TRUSSES UNLESS NOTED OTHERWISE.
- 8. SHOP DRAWINGS OF ALL TRUSSES SHALL BE SUBMITTED BY THE TRUSS MANUFACTURER FOR APPROVAL
- 9. THE FOLLOWING DESIGN DATA SHALL BE INCLUDED ON THE SHOP DRAWINGS:
- A. SLOPE, DEPTH, SPAN AND SPACING OF ALL TRUSSES B. LOCATION OF ALL JOINTS AND CONNECTIONS
- REQUIRED BEARING WIDTHS D. DESIGN LOADINGS AND ALLOWABLE UNIT STRESS INCREASES
- TOP AND BOTTOM CHORD DEAD AND LIVE LOADS CONCENTRATED LOADS AND THEIR POINTS OF APPLICATION
- G. CONTROLLING WIND AND EARTHQUAKE LOADS
- H. ADJUSTMENTS TO LUMBER AND CONNECTOR PLATE DESIGN VALUES FOR CONDITIONS OF USE EACH REACTION FORCE AND DIRECTION I. METAL CONNECTOR PLATE TYPE, SIZE, THICKNESS OR GAGE, AND THE DIMENSIONED LOCATION OF EACH
- CONNECTOR PLATE EXCEPT WHERE SYMMETRICALLY LOCATED WITH RESPECT TO THE JOINT INTERFACE LUMBER SIZE, SPECIES, AND GRADE FOR EACH MEMBER K. CONNECTION REQUIREMENT FOR TRUSS-TO-TRUSS, TRUSS-TO-TRUSS PLY, AND FIELD SPLICES
- L. CALCULATED DEFLECTION RATIO AND MAXIMUM VERTICAL AND HORIZONTAL DEFLECTIONS FOR TOTAL LOAD AND LIVE LOAD M. MAXIMUM AXIAL TENSION AND COMPRESSION FORCE IN THE TRUSS MEMBER
- N. REQUIRED PERMANENT INDIVIDUAL TRUSS MEMBER BRACING O. EACH INDIVIDUAL TRUSS DRAWING SHALL BEAR THE SEAL AND SIGNATURE OF THE TRUSS MANUFACTURER'S ENGINEER
- 10. TRUSS MANUFACTURER SHALL PROVIDE END WALL TRUSSES AT EACH SIDE OF VAULTED CEILINGS. AT GABLE ENDS, BUILDING STEP-DOWNS AND AT CHANGE OF ROOF LINES.
- 11. TRUSS DRAWINGS SHALL BE MADE AVAILABLE AT THE JOB SITE DURING THE TIMES OF INSPECTION. THESE DRAWINGS SHALL BEAR CLEAR INDICATION THAT THEY HAVE BEEN REVIEWED AND APPROVED BY THE EOR.
- 12. CONTRACTOR SHALL BRACE ALL TRUSSES IN ACCORDANCE WITH THE TRUSS PLATE INSTITUTE'S HANDLING,
- INSTALLING, AND BRACING OF PLATE CONNECTED WOOD TRUSSES SUMMARY SHEET. TRUSS MANUFACTURER SHALL CLEARLY INDICATE BRACING LOCATIONS ON THE SHOP DRAWINGS AND ERECTION DRAWINGS. 13. THE MOISTURE CONTENT OF LUMBER SHALL NOT BE LESS THAN 19% NOR SHALL IT BE LESS THAN 7% AT THE TIME OF FABRICATION.
- 14. ALL TRUSS CONNECTOR PLATES SHALL BE MANUFACTURED FROM STRUCTURAL QUALITY GALVANIZED SHEET METAL NOT LESS THAN 20 GAUGE IN THICKNESS, WITH A MINIMUM YIELD STRENGTH OF 33,00 PSI AND A MINIMUM ULTIMATE TENSILE STRENGTH OF 45,000 PSI. THE CORROSION RESISTANT COATING SHALL MEET OR EXCEED ASTM A446 STANDARD SPECIFICATION FOR SHEET STEEL.
- 15. OPEN JOINTS WHICH DEPEND ON THE STIFFNESS OF THE METAL CONNECTOR PLATE TO TRANSMIT STRESSES AND IMPROPER FITTING JOINTS WILL NOT BE ACCEPTED.
- 16. DEAD KNOTS AND WANES ON LUMBER SHALL NOT BE LOCATED UNDER THE CONNECTOR PLATES.
- 17. DESIGN AND DETAILING OF PRE-ENGINEERED PRODUCTS, CONNECTIONS, AND ACCESSORIES SHALL BE IN ACCORDANCE WITH THE RECOMMENDATIONS OF THE AITC "TIMBER CONSTRUCTION MANUAL" AND THE NFPA "NATIONAL DESIGN SPECIFICATIONS FOR WOOD CONSTRUCTION".
- 18. TRUSSES SHALL BE KEPT COVERED DURING SHIPPING, STORAGE AND CONSTRUCTION. TRUSSES SHALL BE STORED OFF THE GROUND IN A MANNER WHICH WILL NOT DAMAGE OR WARP THE TRUSSES PRIOR TO ERECTION.



## DIMENSIONSL LUMBER (CONVENTIONAL 2X) FRAMING

1. LUMBER AND ITS FASTENINGS SHALL CONFORM WITH THE "NATIONAL DESIGN SPECIFICATION FOR STRESS-GRADE LUMBER AND ITS FASTENINGS" BY THE NATIONAL FOREST PRODUCTS ASSOCIATION (LATEST EDITION

LUMBER FOR EXTERIOR WALLS, INTERIOR BEARING WALLS AND SHEAR WALLS SHALL BE NO. 2 SOUTHERN PINE OR DOUGLS FIR OR BETTER UNLESS NOTED OTHERWISE IN THE WALL STUD SCHEDULE. 3. LUMBER FOR HEADERS, BEAMS AND OTHER HORIZONTAL FRAMING MEMBERS SHALL BE NO. 1 SOUTHERN PINE OR DOUGLS FIR OR BETTER.

SHEATHED ON AT LEAST ONE FACE OR SHALL BE BRACED WITH CONTINUOUS 1X4 BRACING AT MID-HEIGHT OF WALL PRIOR TO LOADING THEM WITH FLOOR CONSTRUCTION. 5. BEARING WALL STUDS SHALL NOT BE LOADED WITH ANY CONSTRUCTION LOADS UNTIL SHEATHING HAS BEEN FULLY INSTALLED AND NAILED TO AT LEAST ONE FACE OF THE STUDS. IF BEARING WALLS MUST BE LOADED

PRIOR TO SHEATHING INSTALLATION, CONTRACTOR SHALL PROVIDE CONTINUOUS TEMPORARY BRACING AT MID-HEIGHT OF ALL STUDS PRIOR TO LOAD APPLICATION. 6. SUBJECT TO ENGINEER'S REVIEW AND ACCEPTANCE, NON-STRUCTURAL WALLS SHALL BE CONSTRUCTION

GRADE OR NO. 2. SPRUCE PINE FIR. 7. ALL LUMBER IN CONTACT WITH CONCRETE OR MASONRY OR EXPOSED LUMBER SHALL BE PRESSURE-

TREATED IN ACCORDANCE WITH AWPA SPECIFICATIONS. 8. ALL HEADER AND BEAM SUPPORT STUDS SHALL BE BLOCKED CONTINUOUSLY THROUGH THE TRUSS CAVITY WITH AND EQUAL NUMBER OF STUDS.

9. BOLT HOLES THROUGH WOOD SHALL BE FITTED WITH STANDARD WASHERS AT HEAD AND NUT ENDS.

10. WOOD FRAMING CONNECTIONS SHALL BE MADE WITH JOIST HANGERS UNLESS NOTED OTHERWISE. TOE NAILING IS NOT PERMITTED FOR STRUCTURAL FRAMING MEMBERS.

11. FRAMING LAYOUTS ARE PROVIDED TO CONVEY INTENT AND DESIGN CONCEPTS AND SYSTEMS OF CONSTRUCTION. CONTRACTOR AND SUBCONTRACTORS ARE RESPONSIBLE FOR MATERIAL QUANTITIES AND FINAL LAYOUT AND ANY AND ALL UNSPECIFIED COMPONENTS REQUIRED FOR CONSTRUCTION.

12. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS AND STEPS TO ADEQUATELY BRACE THE BUILDING UNTIL ALL DIAPHRAGMS. SHEAR WALLS, AND PERMANENT BRACING IS INSTALLED, BEARING WALLS SHALL BE INSTALLED WITH 2X BLOCKING AT MID-HEIGHT OR AT 4'-6" OC (WHICHEVER IS LESSER SPACING). 13. CONNECTIONS AND FASTENERS FOR PRESERVATIVE TREATED AND FIRE-RETARDANT-TREATED WOOD SHALL BE OF STAINLESS STEEL, SILICON BRONZE, OR COPPER. THIS INCLUDES BUT IS NOT LIMITED TO ANCHOR BOLTS, POWDER ACTUATED FASTENERS, NAILS, SCREWS, BOLTS, AND METAL FRAMING HARDWARE.

### WOOD SHEAR WALL AND DIAPHRAGMS

NOTED OTHERWISE.

1. SHEATHING FOR ROOF SHALL BE 5/8" OSB APA RATED SHEATHING GRADE.

WOOD SHEATHING AT SHEAR WALLS SHALL BE APA RATED STRUCTURAL 1 GRADE OSB WITH THICKNESS AS SHOWN IN THE SHEAR WALL SCHEDULE.

3. OSB SHEATHING FOR CHIMNEY CONSTRUCTION AND OTHER MISCELLANEOUS USES SHALL BE 1/2" THICK, EXTERIOR GRADE.

4. INTERIOR GYPSUM WALLBOARD FOR SHEAR WALLS SHALL BE 5/8" THICK AND FREE FROM IMPERFECTIONS AND SHALL CONFORM TO SPECIFICATIONS SHOWN ON ARCHITECTURAL DRAWINGS. 5. ROOF SHEATHING SHALL RUN CONTINUOUSLY BELOW ALL DORMERS, CUPOLAS, AND CHIMNEYS UNLESS

6. CONTRACTOR SHALL PROVIDE ACCESS / VENTILATION OPENINGS BETWEEN MAIN ROOF AND OVER-BUILD ROOFS. COORDINATE W/ ARCHITECTURAL AND M/E/P.















└─TF -2' - 8"

5

S300

TW 0"

TF -2' - 8"

12

2

S300

TS -4 5/8"

13' - 9 3/4"

- LOAD BEARING

- LOAD BEARING

WALL

18' - 2 3/4"

**S**300/

18' - 2 3/4"

WALL

14' - 3 3/4"

FOUNDATION PLAN NOTES: 1. REFER TO DRAWINGS S001 AND S002 FOR GENERAL NOTES.

TESTING AND INSPECTION REQUIREMENTS.

2. REFER TO DRAWING S003 FOR SPECIAL STRUCTURAL

3. REFER TO DRAWING S004 FOR ABBREVIATIONS AND

SYMBOLS.

4. FLOOR SLAB SHALL BE A 4" NORMAL CONCRETE SLAB ON GRADE REINFORCED WITH 6X6-W2.1XW2.1 WIRE MESH REINFORCING IN SHEET FORM SUPPORTED ON BOLSTERS.

5. "TS" INDICATES TOP OF SLAB ELEVATION. REFER TO ARCHITECTURAL AND CIVIL DRAWINGS FOR USGS ELEVATION.

6. "TW" INDICATES TOP OF CONCRETE WALL ELEVATION.

REFER TO TYPICAL DETAIL FOR INFORMATION PERTAINING TO ADDITIONAL REINFORCING REQUIRED AT

9. CONTRACTOR SHALL COORDINATE THE ACTUAL FINAL

PENETRATIONS THROUGH THE SLAB AND/OR

SHALL BE CONSIDERED SCHEMATIC.

BEAM @ 48" OC WHTH (2)-#5.

1

SIZE, EXTENTS, ELEVATIONS AND LOCATION OF ALL

CONTRACTORS. INFORMATIONS FOR OPENINGS AND

11. LOADBEARING WOOD STUD WALLS SHALL BE FRAMED WITH No.2 2X4's AT 12" ON-CENTER. PROVIDE No.2 P/T

BOTTOM PLATE AND No.2 DOUBLE TOP PLATE.

FOOTING STEPS.

8. "FS" INDICATES A STEP IN THE FOUNDATION WALL.

7. "TF" INDICATES TOP OF FOOTING ELEVATION.





C



3

W1

107

12' - 7 1/2"

CONF RM

105

104

W4iD

103

12' - 7 1/2" 🗧



<sup>3C</sup> (A-200





**---(** 05

2D A-300

























	<b>~</b>
DATE TEST PERFORMED	
5/16/2025 10:00AM	
NOTES: CONTRACTOR SHALL PROV METHODS AND RECOGNIZE UPON WHICH HIS DESIGN S	ïD D H <i>i</i>
······	

$\cdots$										
NATER FLOW TEST DATA										
STATIC PRESSURE (PSI)	RESIDUAL PRESSURE (PSI)	FLOW RATE (GPM)								
80	50	1,190								
E HIS OWN FLOW TEST(S) (USING ACCEPTABLE METHODS AND PROCEDURES AS DEFINED IN NFPA 13), LL BE BASED.										

	PLAN NOTES
#	NOTE
1	GAS SERVICE DN. B.F.G. GAS SERVICE BY LOCAL GAS UTILITY COMPANY.
2	GAS PRESSURE REGULATOR BY GAS UTILITY COMPANY.
3	GAS METER BY UTILITY CO.
4	VENT THRU ROOF.
5	2" WATER SERVICE DN. B.F.F.
6	3/4" H&SCW & 2" VENT DROPS TO SHOWER, AND 2" WASTE DN.
7	2" VENT & 4" WASTE DN.
9	2" VENT & 2" WASTE DN.
10	1-1/2" SCW DROP. ROUTE 1" CW TO EACH WATER CLOSET.
11	1-1/4" SCW DROP. ROUTE 3/4" CW TO URINAL AND 1" CW TO WATER CLOSET.
12	3/4" H&SCW & 2" VENT DROPS TO LAVATORY, AND 2" WASTE DN. INSTALL TMV-2 BELC COUNTER.
13	3/4" H&SCW & 2" VENT DROPS TO SINK, AND 2" WASTE DN. ROUTE 3/4" H&CW TO DISHWASHER AND ROUTE DISHWASHER DRAIN TO TAILPIECE OF SINK DRAIN.
14	3/4" H&SCW DROPS, 2" VENT DROP, 2" VENT UP AND 3" VENT THRU ROOF.
15	3/4" H&SCW & 2" VENT DROPS TO SINK, AND 2" WASTE DN.
16	3/4" CW DROP TO WALL HYDRANT.
17	4" ST. LDR. UP/DN.
18	3/4" H&SCW & 2" VENT DROPS TO UTILITY SINK, 2" WASTE DN., AND 2" VENT UP.
19	3/4" H&SCW & 2" VENT DROPS TO WASHER BOX, 2" WASTE DN.
20	3/4" SCW DROP. ROUTE 1/2" CW TO REFRIGERATOR AND ICE MAKER BOXES IN WALL.
21	ROUTE 3/4" DRAIN LINE FROM ICE MACHINE(S) TO DRAIN.
22	3/4" GAS DROP TO RANGE. (107 MBH)
23	3/4" SCW DROP TO POT FILLER (PF-1).
24	(4) TANKLESS GAS WATER HEATERS STACKED TWO HIGH ON WALL. ROUTE (8) INTAKE/EXHAUST FLUES UP THRU ROOF.
25	2" BACKFLOW PREVENTER INSTALLED VERTICALLY ON INCOMING 2" WATER SERVICE
26	(2) 6" PVC WATER HEATER INTAKE/EXHAUST FLUES UP THRU ROOF.
27	3/4" H&SCW & 2" VENT DROPS TO MOP SINK, 3" WASTE DN., AND 2" VENT UP & 3" VTR.
28	2" SCW, 1-1/2" HW & 2" GAS UP FROM WATER HEATERS.
29	1-1/4" SEISMIC EARTHQUAKE GAS VALVE WITH MONITORING SYSTEM. INSTALL ON HORIZONTAL PIPE PRIOR TO PENETRATION THROUGH BUILDING WALL.
30	3/4" GAS VALVED AND CAPPED FOR FUTURE GRILL (40 MBH).
31	3/4" GAS DROP TO FURNACE (80 MBH).
32	3/4" GAS DROP TO FURNACE (100 MBH).
33	2" VENT DN.
34	2" CW & SCW DROP TO WATER SOFTENER.
25	
36	2" BYPASS LINE W/ CHECK AND BALL VALVE.
37	DPLEX BOOSTER PUMP MOUNED ON SKID. 2" SUCTION AND DISCHARGE CONNECTION

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![](_page_12_Picture_14.jpeg)

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			PLUMBING FIXTURE SCHEDULE	•	
		TAG	FIXTURE DESCRIPTION	MANUFACTURER	MODEL #
			WATER CLOSET: VITREOUS CHINA, FLOOR-MOUNTED ELONGATED BOWL, 1-1/2" INLET TOP SPUD, LOW-CONSUMPTION 1.28 GPF, DIRECT-FED SIPHON JET ACTION, FULLY-GLAZED 2-1/8" TRAPWAY.	AMERICAN STANDARD	3451.001
		100 4	FLUSH VALVE: 1.28 GPF, POLISHED CHROME FINISH, FIXTURE CONNECTION TOP SPUD, SINGLE FLUSH, BATTERY, G2 EXPOSED SENSOR WATER CLOSET FLUSHOMETER.	SLOAN	G2 8111-1.28
		VVC-1	SEAT: HEAVY WEIGHT AND INJECTION-MOLDED OF SOLID PLASTIC, OPEN FRONT LESS COVER FOR ELONGATED BOWL AND FEATURE EXCLUSIVE, FOUR LARGE MOLDED-IN BUMPERS, CONCEALED CHECK HINGES WITH STAINLESS STEEL POSTS.	CHURCH	295CT
			WATER CLOSET: ADA COMPLIANT, VITREOUS CHINA, FLOOR MOUNTED ELONGATED BOWL, 1-1/2" INLET TOP SPUD, LOW-CONSUMPTION 1.1-1.6 GPF, DIRECT-FED SIPHON JET ACTION, FULLY-GLAZED 2-1/8" TRAPWAY, 10"x12" WATER, SURFACE AREA.	AMERICAN STANDARD	3461.001
E			FLUSH VALVE: 1.28 GPF, POLISHED CHROME FINISH, FIXTURE CONNECTION TOP SPUD, SINGLE FLUSH, BATTERY, G2 EXPOSED SENSOR WATER CLOSET FLUSHOMETER.	SLOAN	G2 8111-1.28
		WC-2	SEAT: HEAVY WEIGHT AND INJECTION-MOLDED OF SOLID PLASTIC, OPEN FRONT LESS COVER FOR ELONGATED BOWL AND FEATURE EXCLUSIVE, FOUR LARGE MOLDED-IN BUMPERS, CONCEALED CHECK HINGES WITH STAINLESS STEEL POSTS.	CHURCH	295CT
			URINAL: ADA, VITREOUS CHINA, WALL-MOUNTED, 3/4" INLET TOP SPUD, LOW CONSUMPTION 0.5 GPF + MOUNT FIXTURE 17" A.F.F.	AMERICAN STANDARD	6590.001EC
		UR-1	FLUSH VALVE: 0.5 GPF, POLISHED CHROME FINISH, FIXTURE CONNECTION TOP SPUD, SINGLE FLUSH, BATTERY, G2 EXPOSED SENSOR URINAL FLUSHOMETER.	SLOAN	G2 8186-0.5
			CARRIER: ADJUSTABLE, FLOOR MOUNTED.	ZURN	Z1221
		LV-1	LAVATORY: WALL HUNG, 20-1/2" X 18-1/4", VITREOUS CHINA, FRONT OVERFLOW, SELF-DRAINING DECK AREA WITH CONTOURED BACK AND SIDE SPLASH SHIELDS, FAUCET LEDGE, FAUCET HOLES ON 4" CENTERS.	AMERICAN STANDARD	0355.012
			FAUCET: MANUAL, SINGLE HOLE MOUNT LESS POP-UP, VANDAL RESISTANT CAST BRASS, POLISHED CHROME-PLATED FINISH, 0.5 GPM PRESSURE COMPENSATING AERATOR OUTLET.	DELTA	22C651
F	-		TRIM: SUPPLY PIPE WITH LOOSE KEY STOPS. CAST BRASS P-TRAP WITH CLEAN-OUT. DRAIN WITH CHROME PLATED CAST BRASS SOLID TOP, OPEN GRID, P.O. PLUG. CHROME PLATED BRASS 17 GAUGE TAILPIECE.	MCGUIRE	165LK, 8902, 149
			LAVATORY: UNDERMOUNT, 19" X 15-3/8", VITREOUS CHINA, FRONT OVERFLOW.	AMERICAN STANDARD	0497300.020
		LV-2	FAUCET: MANUAL, SINGLE HOLE MOUNT LESS POP-UP, VANDAL RESISTANT CAST BRASS, POLISHED CHROME-PLATED FINISH, 0.5 GPM PRESSURE COMPENSATING AERATOR OUTLET.	DELTA	22C651
			TRIM: SUPPLY PIPE WITH LOOSE KEY STOPS. CAST BRASS P-TRAP WITH CLEAN-OUT. DRAIN WITH CHROME PLATED CAST BRASS SOLID TOP, OPEN GRID, P.O. PLUG. CHROME PLATED BRASS 17 GAUGE TAILPIECE.	MCGUIRE	165LK, 8902, 149
		MS-1	MOP SINK: 24" SQUARE, MOLDED STONE MOP SERVICE BASIN. 10" DEEP, INTEGRAL DRAIN IS MOLDED INTO A ONE PIECE UNIT AND DESIGNED TO CONNECT TO A 3" DRAIN PIPE. INCLUDES 830AA FAUCET, 832AA HOSE AND BRACKET, 889CC MOP HANGER BRACKET.	FIAT	MSBIDTG2424
		SH-1	SHOWER: 48"W X 36"D X 78" TALL, ONE PIECE, ACRYLIC SHOWER MODULE. 2" THRESHOLD AND CENTER DRAIN, NO SEAT REQUIRED.	CLARION	4836BF
			SHOWER HEAD AND VALVE: METAL TRIM, IN-LINE VACUUM BREAKER, FIXED SHOWER HEAD AND DIVERTER VALVE.	BRADLEY	1C-C5-D1-B24-DV
			SINK: ADA, 33" x 22" x 6" DEEP, DUAL MOUNT - UNDERMOUNT & DROP IN, DOUBLE COMPARTMENT SINK, 304 STAINLESS STEEL, 18 GAUGE	ELKAY	ECTSRAD332260
			FAUCET: DECK MOUNTED, CHROME PLATED FINISH, SOLID BRASS BODY CONSTRUCTION, 1.8 GPM FLOW RATE, , SEMIPROFESSIONAL SPOUT, LEVER HANDLE.	ELKAY	LKAV2601CR
		SK-1	DRAIN WITH NICKEL PLATED BRASS BODY WITH GRID STRAINER, POLISHED FINISH.	ELKAY	LK35
			TRIM: SUPPLY PIPE WITH LOOSE KEY STOPS. CAST BRASS P-TRAP WITH CLEAN-OUT. P.O. PLUG. CHROME PLATED BRASS 17 GAUGE TAILPIECE.	MCGUIRE	165LK, 8912
			FOOD WASTE DISPOSER: CONTINUOUS FEED, WITH 3/4 H.P. MOTOR, GALVANIZED STEEL GRINDING ELEMENTS WITH TWO STAINELESS STEEL 360 DEG SWIVEL LUGS. SELF-SERVICE WRENCH.	INSINKERATOR	BGR 5XP
			SINK: 18-1/2" X 18-1/2" X 4-7/8" DEEP, ADA, 18 GAUGE, TYPE 304 STAINLESS STEEL, SATIN FINISH, DUAL MOUNT - UNDERMOUNT OR TOP MOUNT.	ELKAY	ELUHAD161650
		SK 2	FAUCET: DECK MOUNTED, POLISHED CHROME PLATED FINISH, SOLID BRASS BODY CONSTRUCTION, 1.5 GPM FLOW RATE, , PULL-OUT SPOUT, LEVER HANDLE.	ELKAY	LKD2443C
		517-2	DRAIN WITH NICKEL PLATED BRASS BODY WITH GRID STRAINER, POLISHED FINISH.	ELKAY	LK35
			TRIM: SUPPLY PIPE WITH LOOSE KEY STOPS. CAST BRASS P-TRAP WITH CLEAN-OUT. P.O. PLUG. CHROME PLATED BRASS 17 GAUGE TAILPIECE.	MCGUIRE	165LK, 8912
F	—	PF-1	WALL MOUNTED, SOLID BRASS POT FILLER, 4.0 GPM.	ELKAY	LKEC2091
		EWC-1	ELECTRIC WATER COOLER AND ELECTRONIC BOTTLE FILLER, FILTERED, REFRIGERATED. WALL MOUNTED	OASIS	PG8FEBF
		LT-1	LAUNDRY TUB: SINGLE BOWL LAUNDRY TUB WITH LEGS, 20" X 23-7/8", INCLUDES A1 CHROME PLATED FAUCET WITH 4" CENTERSET, 4" BLADE HANDLES, 6-3/4" SWING SPOUT, AERATOR AND HOSE ADAPTOR.	FIAT	TAT1

![](_page_13_Figure_3.jpeg)

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				WA <sup>.</sup>	TER S	OFTEN	IER SO	CHEDU	JLE				
TAG	LOCATION	MAX. EXCHANGE CAP. (GRAINS)	MIN. EXCHANGE CAP. (GRAINS)	CONT. FLOW RATE (GPM)	PEAK FLOW RATE (GPM)	BACK WASH FLOW RATE (GPM)	CU.FT. OF RESIN PER TANK	SALT STORAGE (LBS)	PIPE SIZE	MANUFACTURER	MODEL	#	NOTES
DWS-1	MEP #119	150,000	120,000	66	85	8	5	800	2"	PURITAN	CA15M-WS	2PW RESIN	TANK WITH BRINE TANK
	TAG						N SCH	EDULI	E			MANUFACTURER	MODEL #
	FD-1	FD-1 FLOOR DRAIN: ADJUSTABLE CAST IRON BODY, ROUND NICKEL BRONZE STRAINER. CAULK OUTLET. SURESEAL INLINE FLOOR DRAIN TRAP SEALER.								J.R. SMITH	2005-Y02-NB		
	FD-2	FD-2 FLOOR DRAIN: CAST IRON BODY SIZE AS INDICATED ON DRAWINGS. DRAIN LOCATED BELOW ICE MAKER WITH LOW PROFILE FLOOD RIM. 2005								2005-F37			
	FD-3	FLOOR DRAIN: ADJUSTA	BLE CAST IRON BODY	(, ROUND NICKEL )	WITH 4" FUNNEL.							J.R. SMITH	2041S

TAG TAGLOCATIONHWRP-1LAUNDRY #BP-1MEP #119

TAGSERVICEBFP-1DOMESTIC WAY

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# **PUMP SCHEDULE**

<b>~~~</b> ~	<b>~~~</b> ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	<b>~~~</b> ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	<b>~~~</b> ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~							
ELECTRIC										
TION	VOLT	PHASE	POWER	GPW		WANUFACTURER	WODEL #	NOTES		
#121	120	1	270 WATTS	10	20	BELL & GOSSET	NBF-36	PART #103418LF. FLANGE CONNECTION 1", 3300 RPM		
	208	3	(2) 5.5 HP	75	60	XYLEM	MBX2E55B	SET TO MIN. 50 PSI DISCHARGE PRESSURE. ADJUST IN FIELD AS NEEDED.		
n n	mm	mm	mm	mm	mm	mm	mm			

GAS-FIRED DOMESTIC WATER HEATER SCHEDULE												
TAG	ELEC <sup>®</sup> VOLT	TRICAL PHASE	LOAD (BTU/HR)	MINIMUM EFFICIENCY	GALLON CAPACITY	RECOVERY AT 100°F	EXHAUST SIZE	INTAKE SIZE	LOCATION NAME/#	MANUFACTURER	MODEL #	NOTES
GWH-1	120	1	199900	95%	-	3.9	4"	4"	LAUNDRY #121	NAVIEN	NPE 240A	NEUTRALIZATION KIT
GWH-2	120	1	199900	95%	-	3.9	4"	4"	LAUNDRY #121	NAVIEN	NPE 240A	NEUTRALIZATION KIT
GWH-3	120	1	199900	95%	-	3.9	4"	4"	LAUNDRY #121	NAVIEN	NPE 240A	NEUTRALIZATION KIT
GWH-4	120	1	199900	95%	-	3.9	4"	4"	LAUNDRY #121	NAVIEN	NPE 240A	NEUTRALIZATION KIT

PLUMBING EQUIPMENT SCHEDULE										
TAG	DESCRIPTION	MANUFACTURER / MODEL # / CAPACITY	ELECTRICAL REQUIREMENTS	REMARKS (SEE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS)						
WH-1	WALL HYDRANT	J.R. SMITH # 5509-QT	-	WHERE INDICATED ON PLUMBING DRAWINGS, MOUNT BOX IN EXTERIOR BRICK, MIN. OF 24" ABOVE FIN. GRADE						
HB-1	HOSE BIBB	J.R. SMITH # 5518	-	WALL MOUNTED BOX - MILD CLIMATE TYPE						
DCV-1	DUAL CHECK VALVE	WATTS # LF7R	-	UNIT SHALL BE LINE SIZE						

	THE	RMOS	TATI	C MIX	KING Y	VALV	E SCH	IEDULE
TAG	MAXIMUM GPM	PRESSURE DROP (PSI)	COLD INLET SIZE	HOT INLET SIZE	MIXED OUTLET SIZE	MANUFACTURER	MODEL #	NOTES
TMV-1	85	20	1-1/4"	1-1/4"	1-1/2"	LAWLER	803	SET DISCHARGE TEMPERATURE TO 130°F
TMV-2	7	20	1/2"	1/2"	1/2"	LAWLER	570	SET DISCHARGE TEMPERATURE TO 105°F

PLU	<b>MBING</b>	IXTURE	ROUGH-II	N SCHED	ULE
FIXTURE	WASTE	TRAP	VENT	COLD	НОТ
WC-1	4"	INTEGRAL	2"	1"	
WC-2	4"	INTEGRAL	2"	1"	
UR-1	2"	INTEGRAL	1-1/2"	3/4"	
LV-1	1-1/2"	1-1/4"	1-1/2"	1/2"	1/2"
MS-1	3"	3"	1-1/2"	3/4"	3/4"
EWC-1	1-1/2"	N/A	1-1/2"	1/2"	
SH-1	2"	2"	1-1/2"	1/2"	1/2"
SK-1	2"	1-1/2"	1-1/2"	1/2"	1/2"
SK-2	1-1/2"	1-1/2"	1-1/2"	1/2"	1/2"
LT-1	2"	2"	1-1/2"	3/4"	3/4"

# WATER HAMMER ARRESTOR SCHEDULE

PDI SYMBOL	FIXTURE UNITS CONNECTED	CONNECTION SIZE
A	1-11	1/2"
В	12-32	3/4"
С	33-60	1"
D	61-113	1"
E	114-154	1"
F	155-330	1"

		EA	FANG		IANA	JULL	DOLL
TAG	TOTAL TANK VOLUME	LOCATION NAME/#	INLET	ACCEPTANCE VOLUME	MANUFACTURER	MODEL #	NOTES
		MEP #340	3/4"			-RI:12	
ET-2	13	MEP #119	3/4"	13	WESSELS	FXA-50	DOMESTIC WATER BOOSTER PUMP NEUMATIC TANK SUSPENDED FROM CEILING. SET TO MIN. 50 PSI. ADJUST IN FIELD AS NEEDED.

		<b>BACK FL</b>	OW PF	REVENT	OR SO	CHEDULE	
E	SIZE	ТҮРЕ	MANUFACTURER	MODEL #	LOCATION		`
/ATER	2"	REDUCED PRESSURE ZONE ASSEMBLIES	WATTS	SERIES LF909	MEP RM. #119	INSTALL WITH AIR GAP, ELBOWS, TEST COCKS AND NON-RISING STEAM GATE VALVES. INSTALL PRESSURE GAUGES AT INLET AND OUTLET SIDE OF BACKFLOW PREVENTER	}
							,

![](_page_13_Figure_23.jpeg)

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![](_page_15_Figure_0.jpeg)

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- GENERAL NOTES: A. ALL DUCT DIMENSIONS GIVEN ARE INSIDE DIMENSIONED, UNLESS NOTED
- OTHERWISE. B. COORDINATE ALL OPENINGS IN FLOORS, ROOF AND WALLS WITH THE GENERAL
- AND STRUCTURAL CONTRACTORS.
- C. ALL SUPPLY AND RETURN DUCTS SHALL BE LOCATED BETWEEN DROP CEILING AND TRUSS BEARING LEVEL (WITHIN THE THERMAL ENVELOPE OF THE BUILDING)
- D. PROVIDE HARD DUCT CONNECTIONS FOR RETURN AND EXHAUST SYSTEMS.
- E. PROVIDE TURNING VANES IN ALL SQUARE THROATED ELBOWS.
- F. ALL RECTANGULAR SUPPLY AIR BRANCH CONNECTIONS SHALL BE 45° TAKE-OFF FITTINGS AND ROUND SUPPLY AIR BRANCH CONNECTIONS SHALL BE BELLMOUTH FITTINGS.
- G. REFER TO DIFFUSER SCHEDULE FOR DUCT RUNOUT SIZE UNLESS NOTED OTHERWISE. ALL FLEXIBLE DUCTS TO DIFFUSERS MAXIMUM LENGTH 5'-0". FLEXIBLE DUCTS ARE NOT TO BE USED AS ELBOWS.
- H. ALL ABOVE FINISH FLOOR (A.F.F.) DIMENSIONS ARE TO BE MEASURED TO BOTTOM OF EQUIPMENT OR DUCTWORK UNLESS NOTED OTHERWISE.
- I. PROVIDE CEILING RADIATION DAMPERS (CRD) FOR ALL DIFFUSERS/GRILLES LOCATED IN RATED CEILINGS. COORDINATE TYPE OF CRD REQUIRED WITH
- ARCHITECTURALL CONSTRUCTION TYPE AS SHOWN ON ARCHITECTURAL PLANS. J. COORDINATE INSTALLATION OF OUTDOOR AIR INTAKES WITH OTHER TRADES. ALL INTAKES SHALL BE A MINIMUM OF 10'-0" AWAY FROM OTHER BUILDING EXHAUST OR VENTS.
- K. ENSURE TRANSFER OPENINGS ARE PROVIDED IN ALL WALLS TO DECK AS
- REQUIRED TO ENSURE RETURN AIR PATH FOR ALL SPACES. AIR VELOCITY THROUGH OPENINGS SHALL BE 500 FPM MAXIMUM.

1	NOTE INSTALL OUTDOOR AC UNIT / HEAT PUMP ON PAD IN APPROXIMATE LOCATION SHOWN. ROUTE CONTROLS/POWER WIRING AND REFRIGERANT PIPING TO ASSOCIATED INDOOR UNIT. INSULATE ALL REFRIGERANT PIPING AND PROVID UV RESISTANT PVC. JACKET ON OUTDOOR PIPING
2	INSTALL WALL MOUNTED MINISPLIT HIGH ON WALL IN APPROXIMATE LOCATIC SHOWN. COORDINATE FINAL LOCATION WITH OWNER IT/ELECTRICAL EQUIPMENT. ROUTE PUMPED CONDENSATE TO FLOOR DRAIN IN MEP ROOM.
3	INSTALL MINISPLIT IN CEILING IN THE APPROXIMATE LOCATION SHOWN. COORDINATE FINAL LOCATION WITH OWNER IT/ELECTRICAL EQUIPMENT. ROL PUMPED CONDENSATE TO NEARBY MOP SINK IN LAUNDRY ROOM.
4	ROUTE DRYER VENT THROUGH ROOF AND TERMINATE WITH WEATHERPROOF VENT CAP PER MANUFACTURER INSTRUCTIONS. COORDINATE FINAL SIZE WIT DRYER MANUFACTURER.
5	INSTALL EXHAUST FAN IN CEILING. ROUTE EXHAUST DUCT THROUGH ROOF A TERMINATE WITH WEATHERPROOF VENT CAP WITH BACKDRAFT DAMPER ANI BIRDSCREEN.
6	INSTALL EXHAUST FAN IN CEILING. ROUTE EXHAUST DUCT THROUGH WALL AI TERMINATE WITH WEATHERPROOF VENT CAP WITH BACKDRAFT DAMPER ANI BIRDSCREEN.
7	ROUTE OUTSIDE AIR INTAKE DUCT THROUGH WALL AND TERMINATE WITH WEATHERPROOF VENT CAP WITH BACKDRAFT DAMPER AND BIRDSCREEN. BALANCE OUTSIDE AIR TO CFM SHOWN ON SCHEDULES.
8	ROUTE OUTSIDE AIR DUCT UP TO GRAVITY HOOD ON ROOF, TRANSITION AS REQUIRED. BALANCE OUTSIDE AIR TO CFM SHOWN ON SCHEDULES.
9	INSTALL BAS CONTROL PANEL IN APPROXIMATE LOCATION SHOWN. COORDINATE 120/1P POWER WITH EC.
10	INSTALL FURNACE/FAN COIL UNIT ON 4" PAD OR EQUIPMENT STAND. ROUTE SUPPLY DUCTWORK INTO TOP OF UNIT AND RETURN DUCTWORK TO SIDE OF UNIT, TRANSITIONING AS REQUIRED. ROUTE COMBUSTION AIR AND FLUE DUC THROUGH ROOF PER MANUFACTURER RECOMMENDATIONS. ROUTE AC CONDENSATE TO FLOOR DRAIN.
11	INSTALL FURNACE/FAN COIL UNIT ON 4" PAD OR EQUIPMENT STAND. ROUTE SUPPLY DUCTWORK INTO TOP OF UNIT AND RETURN DUCTWORK TO SIDE OF UNIT, TRANSITIONING AS REQUIRED. ROUTE COMBUSTION AIR AND FLUE DUC THROUGH ROOF PER MANUFACTURER RECOMMENDATIONS. ROUTE AC CONDENSATE TO GRADE OUTSIDE.
12	PROVIDE VAV STYLE DIFFUSER TIED TO ROOM THERMOSTAT. SEE DIFFUSER SCHEDULE.
13	PROVIDE 4" EQUIPMENT PAD EXTENDING TO BUILDING AND AT LEAST 6" BEYC ALL EQUIPMENT EDGES. COORDINATE FINAL SIZE WITH SUBMITTED EQUIPME
14	INSTALL CRAC UNIT IN APPROXIMATE LOCATION SHOWN. COORDINATE FINAL LOCATION WITH OWNER IT/ELECTRICAL EQUIPMENT. ROUTE PUMPED CONDENSATE TO FLOOR DRAIN IN MEP ROOM.
15	PROVIDE AND INSTALL 48" STAINLESS STEEL RESIDENTIAL STYLE KITCHEN HOOD ABOVE RANGE. HOOD TO BE 120V/1P 15MOP. HOOD SHALL HAVE INTEGRAL FAN FOR ROOF EXHAUST AT A MAXIMUM OF 400 CFM AND SHALL B VARIABLE SPEED. ROUTE EXHAUST DUCT UP THROUGH ROOF AND TERMINAT WITH WEATHERPROOF VENT CAP PER MANUFACTURER RECOMMENDATIONS
16	PROVIDE AND INSTALL LOW LEAKAGE MOTORIZED DAMPER. DAMPER TO BE 2 AND SHALL BE TIED TO ROOM CLEAN AGENT FIRE PROTECTION SYSTEM. COORDINATE WITH FIRE PROTECTION CONTRACTOR.

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### REMARKS:

1. PROVIDE WITH 7-DAY PROGRAMMABLE THERMOSTATS.

2. PROVIDE 24" TALL RETURN PLENUM STAND OR SIDE RETURN OPTION ON FURNACE.

3. VERIFY REF	RIGERANT LINE SIZING, R	OUTING AND REQUIRED	ACCESSORIES WITH MANU	JFACTURER	FOR ACTUAL	REFRIGERANT	LINE LENGTH	AND ELEVATION	DIFFERENC	ES.																
4. VERTICAL/I	HORIZONTAL STYLE UNIT,	, ECM MOTOR, R-454B.																								
5. PROVIDE A	IR HANDLING UNIT WITH	INTEGRAL CIRCUIT BREA	KER/DISCONNECTION MEA	ANS FOR SIN	IGLE POINT PO	OWER CONNE	CTION PROVID	ED WITH UNIT. F	PROVIDE CO	NDENSING UNIT	WITH MEA	ANS FOR SEPA	RATE SINGLE POINT CON	NECTION.												
								COOLING	COIL					FURNACE		CONDENSING UNIT										
MARK	MANUFACTURER	FURNACE MODEL NUMBER	NOMINAL TONNAGE	CFM	OA CFM	EST ESP	EVAP COIL MODEL	EAT DB/WB (DEG F)	TOTAL (MBH)	SENS (MBH)	INPUT (MBH)	OUTPUT (MBH)	MINIMUM FURNACE EFFICIENCY (%)	STAGES	ELECTRICAL CHARACTERISTICS	MCA	МОСР	COND. UNIT MODEL NUMBER	COND. Unit Mark	ELECTRICAL CHARACTERISTICS	STAGES	SEER2	MCA	МОСР	EMERGENCY POWER?	REMARKS
F-1	TRANE	S8X2C	5	1800	200	0.5	5TXC	78.8 / 65.6	54.8	39.7	100	80	80.0	2.0	120 V /1PH	14	15	5TTR7060	AC-1	208 V/ 1PH	2 STAGE	17	35	60	Y	1 THRU 5
F-2	TRANE	S8X2C	4	1500	225	0.5	5TXC	78.8 / 65.6	46.7	35.9	80	64	80.0	2.0	120 V /1PH	14	15	5TTR7048	AC-2	208 V/ 1PH	2 STAGE	17	28	45	Y	1 THRU 5
F-3	TRANE	S8X2C	5	1800	270	0.5	5TXC	78.8 / 65.6	54.8	39.7	100	80	80.0	2.0	120 V /1PH	14	15	5TTR7060	AC-3	208 V/ 1PH	2 STAGE	17	35	60	Y	1 THRU 5
F-4	TRANE	S8X2C	5	1800	245	0.5	5TXC	78.8 / 65.6	54.8	39.7	100	80	80.0	2.0	120 V /1PH	14	15	5TTR7048	AC-4	208 V/ 1PH	2 STAGE	17	35	60	Y	1 THRU 5
F-5	TRANE	S8X2C	4	1500	165	0.5	5TXC	78.8 / 65.6	46.7	35.9	80	64	80.0	2.0	120 V /1PH	14	15	5TTR7060	AC-5	208 V/ 1PH	2 STAGE	17	28	45	Y	1 THRU 5

							<b>EXH</b>	<b>US</b> 1	r F/	AN		CHI	EDU	LE				
1. PROVIDE WITH	WEATHERPROOF R	OOF/W/	ALL CAP (	SEE PLA	NS) WI	TH BAC	KDRAFT DAMPER A	ND BIRD SCRE	EN.									
2. EXHAUST FAN	OPERATION TO BE T	IED TO	ROOM LIC	GHT SWI	TCH.													
							MOTOR								UNIT	DESIGN RE	FERENCE	
			ESD						ACCESS	DELT	חסוס	CRAVITY	MOTORIZED		MTD.			
MARK	SERVICE	CFM	(IN-WG)	RPM	HP	BHP	RTZ	POWER	DOOR	DRIVE	SCREEN	BDD	DAWPER	ISOLATORS	SW	MANUFACTURER	MODEL NO.	REMARKS
CEF-1	Exhaust Fan	210	0.30	1000	0.03	0.03	115/1/60	No	No	No	Yes	Yes	No	No	Yes	GREENHECK	SP-A250	1,2
CEF-2	Exhaust Fan	210	0.30	1000	0.03	0.03	115/1/60	No	No	No	Yes	Yes	No	No	Yes	GREENHECK	SP-A250	1,2
CEF-3	Exhaust Fan	140	0.30	1050	0.07	0.07	115/1/60	No	No	No	Yes	Yes	No	No	Yes	GREENHECK	SP-B150	1,2
CEF-4	Exhaust Fan	140	0.30	1050	0.07	0.07	115/1/60	No	No	No	Yes	Yes	No	No	Yes	GREENHECK	SP-B150	1,2
CEF-5	Exhaust Fan	140	0.30	1050	0.07	0.07	115/1/60	No	No	No	Yes	Yes	No	No	Yes	GREENHECK	SP-B150	1,2

## **BAS CONTROL SYSTEM REQUIREMENTS:**

 BUILDING CONTROL SYSTEM SCOPE SHALL BE LIMITED TO MONITORING AND ALARMING ONLY. THE ALARMING AND MONITORING SHALL BE INTEGRATED INTO THE COUNTY'S EXISTING AUTOMATED LOGIC BAS SYSTEM. INTEGRATION OF NEW MONITORING/ALARM POINTS SHALL BE AUTOMATED LOGIC BY EMCOR SERVICES. THE POINTS TO BE INTEGR INTO THE EXISTING COUNTY SYSTEM ARE LISTED BELOW:

- SERVER ROOM TEMPERATURE (ANALOG)
- 2. SERVER ROOM HUMIDITY (ANALOG)
- 3. DISPATCH ROOM TEMPERATURE (ANALOG)
- SERVER ROOM CRAC UNIT IN ALARM (DIGITAL T/F) 4.

 BAS SYSTEM SHALL BE CAPABLE OF SENDING ALARM NOTIFICATIONS BY AT MINUMUM, AND EMAIL. COORDINATE WITH OWNER FOR SETTING UP ALARM NOTIFICATIONS. AT MINIMUM, NOTIFICATIONS SHALL BE SENT FOR SERVER ROOM AND DISPATCH ROOM TEMPERATURE ALARMS WITH ADDITIONAL ALARM NOTIFICATIONS SENT AS REQUESTED OWNER.

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# **SPLIT AC / FURNACE SYSTEM SCHEDULE**

OR SINGLE POINT POWER CONNE	CTION PROVIDED WITH UNIT.	. PROVIDE CONDENSING UNIT V	WITH MEANS FOR SEPARATE S	NGLE POINT CONNECTION

# **CRAC SYSTEM SCHEDULE**

## 1. INDOOR UNIT TO BE DOWNFLOW FLOOR LEVEL DISCHARGE WITH TOP RETURN.

2. INDOOR UNIT TO BE PROVIDED WITH DIGITAL SCROLL COMPRESSOR, 2-STAGE ELECTRIC REHEAT, EC FAN, AND AN INFRARED HUMIDIFIER. 3. VERIFY REFRIGERANT LINE SIZING, ROUTING AND REQUIRED ACCESSORIES WITH MANUFACTURER FOR ACTUAL REFRIGERANT LINE LENGTH AND ELEVATION DIFFERENCES. 4. PROVIDE CONTROLS PACKAGE INCLUDING DIGITAL DISPLAY WITHIN ROOM. UNIT SHALL BE CAPABLE OF BAS CONNECTIVITY VIA BACNET IP.

MANUFACT	URER TO PROVIDE LOCKI	NG DISCONNECT FOR BOTH	I INDOOR AN	ID OUTDOO	R UNITS.															
								INDO			1	1			OUTDOOR CONDENSING UNIT					
MARK	MANUFACTURER	INDOOR UNIT MODEL	CFM	ESP	EC FAN HP	EAT DB/%RH (DEG F)	TOTAL COOLING CAP (MBH)	SENS COOLING CAP (MBH)	ELECTRIC REHEAT CAPACITY (KW)	INFRARED HUMIDIFIER CAPACITY (LB/HR)	FILTER	ELECTRICAL CHARACTERISTICS	FLA	МОСР	OUTDOOR MODEL	ELECTRICAL CHARACTERISTICS	FLA	моср	EMERGENCY POWER?	REMARKS
CRAC-1	LIEBERT	PX0182A1C8064W	2800	0	4.15	75 / 40%	61.7	55.1	12	7.7	MERV-8	208V / 3P	67.5	90	MSC028E1YD08OS	208V / 3P	3	15	Y	1 THRU 5

						DX	SPLIT							
REMARKS:														
1. PROVIDE WI	IRELESS REMOTE CONTR	ROLLER KIT FOR	EACH INDOOR UNIT.											
2. OUTDOOR U	JNIT SHALL BE RATED FC	R LOW AMBIENT	CONTROL DOWN TO -5 F	. PROVIDE RATED	CAPACITIES AS LISTED F	OR COOLING AT	47F AND HEATING AT 17	7F.						
3. PROVIDE INI	DOOR UNITS WITH INTEO	GRAL CONDENSA	TE PUMP AND ALARM. FO	R HIGH WALL ST	LE UNITS PROVIDE COND	ENSATE PUMP S	IMILAR TO REFCO GOBI	II.						
4. CONTRACTO	OR SHALL SIZE ALL REFR	IGERANT PIPING	SO AS NOT TO REDUCE I	RATED CAPACITY	. SUBMIT REFRIGERANT F	PIPING DETAIL W	ITH SUBMITTAL.							
5. INDOOR UNI	ITS SHALL BE POWERED	THROUGH OUT	DOOR UNIT.											
6. MOUNT OUT	DOOR UNITS ON 16" ST	AND FOR GRADE	MOUNTED UNITS.											
7. TCC TO PRO	OVIDE TEMPERATURE SE	NSOR IN ELECT	RICAL / IT ROOM WITH ASS	SOCIATED BAS PO	DINT FOR MONITORING ON	ILY.								
			INDOO	R UNIT					OUTDOOR	UNIT				
					COOLING/HEATING								EMERGENCY	
MARK	MANUFACTURER	MARK	MODEL	MAX CFM	MBH	MARK	MODEL	SEER/EER	HSPF	MCA	MOCP	VOLTS/PH	POWER	REMARKS
MSCU-1	TRANE	MS-1	TPKA0A0361KA80A	1000	36/35	MSCU-1	TRUZH0361KA00NA	18.7/12.3	9	24	35	208/1	Yes	1 THRU 7
MSCU-2	TRANE	MS-2	TPKA0A0361KA80A	1000	36/35	MSCU-2	TRUZH0361KA00NA	18.7/12.3	9	24	35	208/1	Yes	1 THRU 7
MSCU-3	TRANE	MS-3	TPLA0A0421EA80A	1200	42/42	MSCU-3	TRUZH0421KA10NA	17.0/10.5	9.5	36	60	208/1	Yes	1 THRU 7

MINIC	STANDALONE EQUIPMENT CONTROLS SEQUENCES	
'S ARM	<ul> <li>EXHAUST FAILS SHALL ENABLE WHEN ROOM LIGHT SWITCH / OCCUPANCY SENSOR IS ON.</li> </ul>	REMARKS:
1UM, TEXT	<ul> <li>FURNACE/SPLIT AC SYSTEM SEQUENCE OF OPERATION:</li> <li>FURNACES TO BE PROVIDED WITH 7-DAY PROGRAMMABLE THERMOSTATS.</li> <li>FURNACES SHALL STAGE HEATING AND COOLING AS REQUIRED TO MAINTAIN SPACE TEMPERATURE SETPOINT.</li> <li>SUPPLY FANS SHALL OPERATE AT CONSTANT VOLUME DURING OCCUPIED HOURS AT ALL TIMES TO PROVIDE POSITIVE MECHANICAL VENTILATION.</li> </ul>	2. PROVIDE FRAME 3. PROVIDE PLENU 4. VAV SUPPLY DIF 5. STAINLESS STEE TAG RG2 S4 S5 S6
M STED BY	<ul> <li>CRAC UNIT SEQUENCE OF OPERATION:</li> <li>CRAC UNIT TO BE PROVIDED WITH STANDALONE MANUFACTURER CONTROLS INTERFACE.</li> <li>CRAC UNIT SHALL MODULATE COOLING, HEATING, ELECTRIC REHEAT, AND HUMIDIFIER OPERATION TO MAINTAIN ROOM SETPOINT AT 74 DEG 45% RH (ADJ).</li> </ul>	S9           S10           SWG2           VSD1
	<ul> <li>BACKUP SERVER ROOM MINI SPLIT:</li> <li>SPLIT SYSTEM ROOM TEMPERATURE SETPOINT SHALL BE SET 2 DEG (ADJ) HIGHER THAN THE ROOM SETPOINT OF THE ASSOCIATED MAIN CRAC SYSTEM SUCH THAT BACKUP MINISPLIT SYSTEM ONLY OPERATES AT TIMES OF PEAK LOAD OR AS A BACKUP UPON MAIN SYSTEM FAILURE.</li> <li>SYSTEM SHALL MODULATE COOLING/HEATING AS REQUIRED TO MAINTAIN ROOM SETPOINT.</li> </ul>	
	<ul> <li>BACKUP DISPATCH ROOM MINI-SPLIT AC SYSTEM:</li> <li>SPLIT SYSTEM ROOM TEMPERATURE SETPOINT SHALL BE SET 2 DEG (ADJ) HIGHER THAN THE ROOM SETPOINT OF THE ASSOCIATED MAIN AC SYSTEM SUCH THAT BACKUP MINISPLIT SYSTEM ONLY OPERATES AT TIMES OF PEAK LOAD OR AS A BACKUP UPON MAIN SYSTEM FAILURE.</li> <li>SYSTEM SHALL MODULATE COOLING/HEATING AS REQUIRED TO MAINTAIN ROOM SETPOINT.</li> </ul>	REN 1. F 2. F
	<ul> <li>CLEAN AGENT FIRE PROTECTION HVAC SHUTDOWN SEQUENCE:</li> <li>SYSTEMS SERVING CLEAN AGENT SYSTEMS SHALL SHUT DOWN UPON DETECTION OF FIRE IN THE SERVER ROOM AND DISPATCH ROOM. (F-1, MS-2, MS-3, CRAC-1).</li> <li>UPON POSITIVE SHUTDOWN OF HVAC EQUIPMENT, MOTORIZED DAMPERS IN DUCTWORK SHALL CLOSE TO SEAL ROOM FOR ACTIVATION OF CLEAN AGENT SYSTEM (APPLIES ONLY TO F-1).</li> <li>COORDINATE REQUIRMENTS AND INSTALL WITH CLEAN AGENT SYSTEM PROVIDER.</li> </ul>	
	4 3	

## **DIFFUSER / GRILLE SCHEDULE**

W	ORK TO THE DIFFU	JSER SHALL BE THE	E SAME SIZE AS TH	IE NECK UNLESS OTH	ERWISE NOTED.						
16	STYLE APPROPRIA	ATE FOR CEILING T	YPE (I.E. LAY IN, S	URFACE MOUNT).							
U	M RETURN GRILLE	S WITH DUCTED SC	OUND BOOT.								
F	FUSER. PROVIDE V	VITH WALL THERMO	OSTAT, AND INTEG	RAL 120V -> 24V TRAN	ISFORMER FOR DA	MPER POWER.					
E	EL PERFORATED SU	JPPLY PLENUM. INS	SULATE ENTIRE PL	ENUM.							
	NECK SIZE	FACE LENGTH	FACE WIDTH	MATERIAL	FINISH	MAX NC	MAX THROW (FT)	MAX TOTAL APD (IN WG)	MANUFACTURER	MODEL	NOTES
	24"x10"	24"	10"	ALUMINUM	WHITE	20	12	0.05	PRICE	EGG CRATE 80	3
	6"Ø	24"	24"	STEEL	WHITE	15	6	0.05	PRICE	SPD	1,2
	8"Ø	24"	24"	STEEL	WHITE	15	6	0.05	PRICE	SPD	1,2
	10"Ø	24"	24"	STEEL	WHITE	20	10	0.09	PRICE	SPD	1,2
	6"Ø	24"	24"	ALUMINUM	WHITE	15	6	0.05	PRICE	ASPD	1,2
	8"Ø	24"	24"	ALUMINUM	WHITE	15	6	0.05	PRICE	ASPD	1,2
	10"x4"	10"	4"	ALUMINUM	WHITE	20	12	0.05	PRICE	600	1,2
	8"Ø	24"	24"	STEEL	WHITE	15	6	0.05	PRICE	PPD	4

	ELECTR	RIC BAS	SEBO/	ARD I	HEATE	ER SO	CHEDULE	E
MARK	MANUFACTURER	MODEL	LENGTH	WATTS	QUANTITY	AMPS	VOLTS / PHASE / HZ	REMARKS
BR-1	QMARK	QMKC25126W	30"	500.0	4	4.2	115 / 1 / 60	1 THRU 2
MARKS: PROVIDE UNI	IT MOUNTED THERMOSTAT	-						

2. PROVIDE CUSTOM COLOR AS SELECTED BY ARCHITECT.

	ELEC	TRIC	UNIT H	IEAT	'ER	r so	СН	EDULE
REMARKS:								
1. PROVIDE L	INIT MOUNTED THERMOS	STAT.						
2. PROVIDE F	ACTORY MOUNTED DISC	CONNECT.						
3. PROVIDE S	SURFACE MOUNT TRIM.							
MARK	MANUFACTURER	MODEL NO.	HEATING COIL CAPACITY	POWER	FLA	VOLT	PH	REMARKS
EUH-1	BERKO	SRA	5118 Btu/h	1.5 kW	13 A	120 V	1	1,2,3
	BERKO	SRA	5118 Btu/h	1.5 kW	13 A	120 V	1	1.2.3

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![](_page_17_Picture_0.jpeg)

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GENERAL NOTES - SITE:

- A. REFER TO SHEET E001 FOR ELECTRICAL SYMBOLS AND ADDITIONAL GENERAL NOTES.
- B. COORDINATE ALL INCOMING ELECTRICAL SERVICE WORK WITH THE ELECTRICAL UTILITY COMPANY. PAY ALL FEES AND OTHER COSTS NOT BORNE BY THE ELECTRICAL UTILITY COMPANY TO PROVIDE NEW ELECTRICAL SERVICE TO THE PROJECT BUILDING.
- C. COORDINATE ALL INCOMING TELEPHONE SERVICE WORK WITH THE LOCAL TELEPHONE UTILITY COMPANY. PAY ALL FEES AND OTHER COSTS NOT BORNE BY THE LOCAL TELEPHONE UTILITY COMPANY TO PROVIDE NEW TELEPHONE SERVICE TO THE PROJECT BUILDING.
- D. PROVIDE PULL STRINGS IN ALL UTILITY CONDUITS.
- E. ALL EXTERIOR CONDUITS SHALL BE INSTALLED BELOW THE FROST LINE.
- F. COORDINATE LOCATIONS OF ALL UNDERGROUND CONDUITS, HANDHOLES AND MANHOLES, UNDERGROUND DRAINS, SERVICES, STRUCTURES, AND PAVING.
- G. PROVIDE ADDITIONAL HANDHOLES AND MANHOLES AS REQUIRED BY THE UTILITY COMPANIES. COORDINATE REQUIREMENTS WITH UTILITY COMPANIES PRIOR TO BID.
- H. COORDINATE ALL ROUTING AND TERMINATION LOCATIONS WITH THE UTILITY COMPANIES PRIOR TO BID.
- I. ALL CONDUCTORS FOR EXTERIOR LIGHTING AND POWER CIRCUITS SHALL BE #10 AWG MINIMUM.

## GENERAL NOTES - COPS: A. ELECTRICAL POWER SYSTEM SHALL BE PROVIDED AS A CRITICAL OPERATIONS POWER SYSTEM AND PROVIDED AND INSTALLED AS PER NEC 708 REQUIREMENTS.

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	PLAN NOTES
#	NOTE
1	PROVIDE (1) 2"C FOR AT&T FIBER SERVICE FROM S. HART ST. TO BUILDING DEMARC. LOCATION. PROVIDE WITH PULL STRING. ROUTING SHOWN IS DIAGRAMITIC IN NATURE, COORDINATE EXACT REQUIREMENTS, LOCATION, AND ROUTING WITH AT&T AND OTHER UNDERGROUND UTILITIES PRIOR TO INSTALLATION.
2	PROVIDE (1) 2"C FOR METRONET FIBER SERVICE FROM S. HART ST. TO BUILDING DEMARC. LOCATION. PROVIDE WITH PULL STRING. ROUTING SHOWN IS DIAGRAMITIC IN NATURE, COORDINATE EXACT REQUIREMENTS, LOCATION, AND ROUTING WITH METRONET AND OTHER UNDERGROUND UTILITIES PRIOR TO INSTALLATION.
3	PROVIDE (2) 4"C FOR INDIGITAL SERVICE FROM PROPERTY LINE TO BUILDING DEMARC. LOCATION. PROVIDE WITH PULL STRING. ROUTING SHOWN IS DIAGRAMITIC IN NATURE, COORDINATE EXACT REQUIREMENTS, LOCATION, AND ROUTING WITH INDIGITAL AND OTHER UNDERGROUND UTILITIES PRIOR TO INSTALLATION.
4	PROPOSED ROUTING OF UTILITY PRIMARY CONDUIT. EXACT ROUTING TO BE COORDINATED WITH ELECTRIC UTILITY AND ALL OTHER UNDERGROUND UTILITIES IN AREA. EC SHALL PROVIDE (1) 4" SCHEDULE 40 CONDUIT FROM UTILITY TRANSFORMER TO BACK OF ROAD RIGHT OF WAY, COORDINATE EXACT LOCATION WITH ELECTRIC UTILITY. CONDUIT SHALL BE BURIED 30" TO 35" DEEP AND SHALL BE PROVIDED WITH PULL ROPE. CONDUIT ROUTE SHALL HAVE A MAXIMUM OF (3) 90 DEGREE SWEEPING ELBOWS, AND ELBOWS SHALL NOT BE HANDMADE. CONFIRM EXACT ELBOW REQUIREMENTS WITH UTILITY PRIOR TO INSTALLATION.
5	UTILITY PRIMARY CONDUIT SHALL BE ROUTED TO BACK OF ROAD RIGHT OF WAY, COORDINATE EXACT LOCATION WITH UTILITY PRIOR TO INSTALLATION.
6	PROPOSED UTILITY TRANSFORMER LOCATION. COORDINATE EXACT LOCATION WITH UTILITY. PROVIDE CONCRETE PIT / PAD AND ASSOCIATED BOLLARDS AS REQUIRED BY THE UTILITY. REFER TO ELECTRICAL ONELINE RISER DIAGRAM FOR ADDITIONAL INFORMATION.
7	PROPOSED DIESEL GENERATOR LOCATION. COORDINATE EXACT LOCATION WITH OTHER SITE UTILITES AND CIVIL DRAWINGS. PROVIDE CONCRETE PAD AS PER MANUFACTURER'S REQUIREMENTS. MAINTAIN ALL MANUFACTURER AND NEC REQUIRED CLEARANCES.
8	PROPOSED GENERATOR CONNECTION CABINET LOCATION. COORDINATE EXACT LOCATION WITH OTHER SITE UTILITIES AND CIVIL DRAWINGS. PROVIDE CONCRETE PAS AS PER MANUFACTURER'S REQUIREMENTS. MAINTAIN ALL MANUFACTURER AND NEC REQUIRED CLEARANCES.
9	PROVIDE CIRCUITS INDICATED TO GENERATOR DOCKING STATION ACCESSORIES AND CONNECT COMPLETE. REFER TO ASSOCIATED PANEL SCHEDULE FOR DESCRIPTION OF LOADS SERVED AT DOCKING STATION. COORDINATE EXACT LOCATION PRIOR TO INSTALLATION.
10	APPROXIMATE LOCATION OF RADIO TOWER BY OWNER / OWNER'S VENDOR (MOTOROLA). COORDINATE ALL GROUNDING REQUIREMENTS AND ASSOCIATED ELECTRICAL NEEDS WITH MOTOROLA AND PROVIDE AS REQUIRED.
11	CONNECT COMPLETE VEHICLE GATE VIA CIRCUIT INDICATED. COORDINATE EXACT LOCATION AND ADDITIONAL REQUIREMENTS WITH CIVIL AND SECURITY DRAWINGS AND PROVIDE ACCORDINGLY. EC SHALL PROVIDE ALL INTERCONNECTIONS FOR SECURITY DEVICES, LOOPS, GATE SENSORS, ETC. AS REQUIRED.
12	TRAFFIC LOOP DETECTORS. COORDINATE EXACT LOCATION AND REQUIREMENTS WITH GATE AND SECURITY EQUIPMENT AND PROVIDE ACCORDINGLY.
13	SECURITY PEDESTAL PROVIDED BY OWNER'S VENDOR (HICOM). PROVIDE CONDUIT PATHWAY FROM RADIO SERVER ROOM TO PEDESTAL LOCATION. COORDINATE EXACT LOCATION AND REQUIREMENTS WITH HICOM AND PROVIDE AS REQUIRED.

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![](_page_17_Picture_18.jpeg)

![](_page_18_Figure_0.jpeg)

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![](_page_18_Figure_3.jpeg)

3

![](_page_18_Figure_5.jpeg)

A. REFER TO SHEET E-001 FOR ELECTRICAL SYMBOLS AND ADDITIONAL GENERAL NOTES.

B. REFER TO MECHANICAL AND PLUMBING SERIES DRAWINGS FOR ADDITIONAL SCOPE OF

C. REFER TO SPECIFICATION SECTION 260519 FOR MINIMUM CONDUCTOR SIZE REQUIRED BASED ON THE TOTAL CIRCUIT DISTANCE.

RECEPTACLES MAY NOT BE IDENTIFIED AS GFCI ON PLAN, BUT SHALL BE PROVIDED

E. ALL SPECIAL TYPE RECEPTACLES SHALL BE NEMA 6-20R UNLESS NOTED OTHERWISE AND

SHALL BE CIRCUITED WITH (2)#10 + (1)#10 NEUTRAL + (1)#10 GROUND. COORDINATE

REQUIREMENTS WITH OWNER SUPPLIED EQUIPMENT PRIOR TO INSTALLATION.

F. REFER TO ARCHITECTURAL SCHEDULES, DETAILS, AND ELEVATIONS FOR ADDITIONAL

G. UNLESS NOTED OTHERWISE, ALL NEW DEVICES SHALL BE INSTALLED FLUSH IN WALL.

SYSTEM AND PROVIDED AND INSTALLED AS PER NEC 708 REQUIREMENTS.

A. ELECTRICAL POWER SYSTEM SHALL BE PROVIDED AS A CRITICAL OPERATIONS POWER

H. CIRCUIT NUMBERS AT DEVICES CORRESPOND TO PANELBOARD BREAKERS, REFER TO

INFORMATION ON DEVICE LOCATIONS PRIOR TO ROUGH-IN.

PANELBOARD SCHEDULES FOR ADDITIONAL INFORMATION.

D. ALL RECEPTACLES LOCATED WITHIN 6 FEET OF A SINK SHALL BE GFCI TYPE. ALL

GENERAL NOTES - POWER:

GENERAL NOTES - COPS:

ACCORDING TO REQUIREMENT.

WORK.

	PLAN NOTES
#	NOTE
1	PROVIDE (1) QUAD RECEPTACLE PER BADGEPASS CONTROL PANEL. COORDINATE EXACT LOCATIONS AND MOUNTING HEIGHTS WITH BADGEPASS PRIOR TO INSTALLATION.
2	CONNECT COMPLETE DISPATCH CONSOLES VIA CIRCUITS INDICATED. CONSOLE POWER POLES PROVIDED BY CONSOLE MANUFACTURE. EACH SHALL INCLUDE A POWERLINC JUNCTION BOX FOR EC CIRCUIT CONNECTIONS. COORDINATE EXACT LOCATIONS WITH CONSOLE MANUFACTURER.
3	PROVIDE NEMA 3R 208V, 2P-60A FUSIBLE DISCONNECT. FUSE AS PER MANUFACTURER'S RECOMMENDATIONS. PROVIDE ADDITIONAL SUPPORT STRUCTURE AS REQUIRED.
4	CONNECT COMPLETE VIA CIRCUIT INDICATED. DISCONNECT PROVIDED BY EQUIPMENT MANUFACTURER. COORDINATE EXACT LOCATION AND REQUIREMENTS WITH EQUIPMENT MANUFACTURER PRIOR TO INSTALLATION. PROVIDE ALL INTERNAL INTERCONNECTIONS AS REQUIRED.
5	EC SHALL PROVIDE DISCONNECT AND ALL ELECTRICAL INTERCONNECTIONS BETWEEN INDOOR AND OUTDOOR UNIT AS REQUIRED.
6	RECEPTACLE / CIRCUIT CONNECTION TO DISHWASHER. VERIFY EXACT LOCATION AND REQUIREMENTS PRIOR TO INSTALLATION.
7	RECEPTACLE TO BE FLUSH MOUNTED OR OTHERWISE AS REQUIRED TO ALLOW BACK OF RANGE TO BE PLACED FLUSH AGAINST WALL BEHIND THE RANGE. INSTALL RANGE RECEPTACLE IN LOCATION AND ORIENTATION AS REQUIRED BY AND IN ACCORDANCE WITH THE SUPPLIED RANGE MANUFACTURER INSTALLATION INSTRUCTIONS.
8	RECEPTACLE / CIRCUIT CONNECTION TO MICROWAVE. VERIFY EXACT LOCATION AND MOUNTING HEIGHT PRIOR TO INSTALLATION.
9	RECEPTACLE / IRCUIT CONNECTION INSIDE BASE CABINET BELOW SINK FOR GARBAGE DISPOSAL. VERIFY EXACT LOCATION PRIOR TO INSTALLATION. COORDINATE SWITCH MOUNTING LOCATION WITH CASEWORK PRIOR TO INSTALLATION.
10	CONNECT COMPLETE KITCHEN RANGE HOOD VIA CIRCUIT INDICATED. COORDINATE EXACT REQUIREMENTS WITH HOOD MANUFACTURER PRIOR TO INSTALLATION AND PROVIDE ACCORDINGLY.
11	PROVIDE CEILING MOUNTED 120V, 20A RECEPTACLE AT EACH CIRCUIT LOCATION SHOWN ABOVE IT RACKS.
12	PROVIDE CEILING MOUNTED 120V, 30A TWIST-LOCK RECEPTACLE AT EACH CIRCUIT LOCATION SHOWN ABOVE IT RACKS.
13	PROVIDE ALUMINUM DUAL CHANNEL RACEWAY FOR POWER AND DATA. RACEWAY SHALL BE WIREMOLD ALA4800 SERIES, OR APPROVED EQUAL. RACEWAY SHALL BE MOUNTED ABOVE WORK SURFACE, COORDINATE EXACT MOUNTING HEIGHT PRIOR TO ROUGH-IN.
14	PROVIDE METAL WEATHERPROOF COVER. COVER SHALL REMAIN WEATHERPROOF WHILE-IN-USE.
15	CONNECT COMPLETE BOOSTER PUMP VIA CIRCUIT INDICATED. COORDINATE EXACT REQUIREMENTS WITH EQUIPMENT MANUFACTURER AND PROVIDE AS REQUIRED. DISCONNECT PROVIDED BY EQUIPMENT MANUFACTURER.

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![](_page_18_Picture_10.jpeg)

![](_page_19_Figure_0.jpeg)

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3

![](_page_19_Figure_6.jpeg)

- MDF OR IDF IS PERMITTED. CONDUIT SHALL BE SIZED AS FOLLOWS: 1. (1) INFORMATION OUTLET LOCATION: 1"C 2. (2) INFORMATION OUTLET LOCATIONS: 1-1/4"C 3. (3) INFORMATION OUTLET LOCATIONS: 1-1/2"C
- C. ALL COMMUNICATIONS CABLES SHALL BE INSTALLED IN CONDUIT, CABLE TRAY, OR SUPPORTED BY CABLE HOOKS. PROVIDE BUSHINGS AT THE ENDS OF ALL CONDUIT WHERE STUBBED ABOVE ACCESSIBLE CEILINGS OR WHERE DROPPED INTO CABLE TRAY. PROVIDE CABLE HOOKS ABOVE ACCESSIBLE CEILINGS FOR CABLE INSTALLATION WHERE NOT INSTALLED IN CONDUIT OR CABLE TRAY.
- D. WHERE CONDUIT IS STUBBED ABOVE ACCESSIBLE CEILING, CABLES SHALL BE INSTALLED WITH SERVICE LOOPS. SERVICE LOOPS SHALL BE APPROXIMATELY TWO WRAPS, OR ABOUT 16" EXTRA INCHES FOR LOOP.
- E. ALL CABLEING SHALL BE PROVIDED AND INSTALLED BY OWNER'S VENDOR, HICOM.

GENERAL NOTES - FIRE ALARM:

- A. REFER TO SHEET E001 FOR ELECTRICAL SYMBOLS AND ADDITIONAL GENERAL NOTES. B. THE FIRE ALARM PLANS ARE INTENDED TO DEPICT THE GENERAL PERFORMANCE OF THE SYSTEM. THE FIRE ALARM VENDOR SHALL BE RESPONSIBLE FOR PROVIDING A COMPLETE DESIGN PER EQUIPMENT LIMITATIONS. PROVIDE ALL NECESSARY EQUIPMENT, DEVICES, WIRING, ETC AS REQUIRED FOR A COMPLETE AND CODE COMPLIANT FIRE ALARM SYSTEM.
- C. DO NOT LOCATE ANY DETECTION DEVICE WITHIN 3-FEET OF AN AIR DIFFUSER.
- D. ADDRESSABLE RELAYS AND MONITOR MODULES SHALL BE INSTALLED WITHIN 3-FEET OF CONTROLLED OR MONITORED DEVICE. E. A VISUAL INDICATOR SHALL BE PROVIDED FOR ALL INITIATING DEVICES LOCATED OUTSIDE OF NORMAL VIEWING.

	PLAN NOTES
#	NOTE
1	PROVIDE DATA DEVICES SHOWN WITHIN DUAL CHANNEL RACEWAY. REFER TO POWER PLANS FOR ADDITIONAL INFORMATION.
2	CABLE QUANTITY SHOWN FOR ROUGH-IN REFERENCE ONLY. CABLING TO BE PROVIDED AND INSTALLED BY OWNER'S VENDOR, HICOM.
3	CARD READERS PROVIDED BY OWNER'S VENDOR, BADGE PASS. CONTRACTOR SHALL PROVIDE ROUGH-INS. COORDINATE EXACT ROUGH-IN REQUIREMENTS WITH BADGE PASS AND PROVIDE AS REQUIRED.
4	PROVIDE WIRE MESH CABLE TRAY. COORDINATE EXACT LOCATIONS AND MOUNTING HEIGHTS WITH ALL OTHER DISCIPLINES AND ABOVE CEILING ROUTING.
5	PROVIDE FIRE RATED TELECOM PATHWAY SLEEVES THROUGH WALL AT FIRE RATED WALLS. SLEEVES SHALL BE STI EZ PATH 44+ SERIES OR APPROVED EQUAL. PROVIDE EXTENSION MODULES AS REQUIRED. CONFIRM EXACT CABLE CAPACITY WITH OWNER'S VENDOR, HICOM AND PROVIDE AS REQUIRED. PATHWAYS SHALL ALL BE ABOVE LAY-IN CEILING. COORDINATE EXACT LOCATIONS PRIOR TO INSTALLATION.
6	ALL LADDER RACK / TRAY WITHIN THE SERVER ROOM PROVIDED BY OWNER'S VENDOR.
7	WIRELESS ACCESS POINTS SHOWN FOR REFERENCE ONLY. PROVIDED AND INSTALLED BY OWNER'S VENDORS.

![](_page_19_Picture_17.jpeg)

	<u>Supplie</u> <u>Mc</u> Enclosu	<u>ounting:</u> re Type:				Phase: 3 <u>Wire:</u> 4 <u>Ground:</u> E	luipment	Ground	l Bus			<u>A.I.C. Ratii</u> <u>Main Ty</u> <u>Main Rati</u> i	n <u>g:</u> TBD <del>→</del> b <u>e:</u> Main Brea hg: 800 A	aker	<u> </u>
General 1) MAIN 2) SHALI	Panel Comments: BREAKER SHALL BE INDI L BE PROVIDED WITH INT	IVIDUALLY MOUNTED, SO FEGRAL SURGE PROTEC	DLID-STATE TION DEVI	e, elect Ce (SPD	RONIC TR	IP, WITH FI	LD ADJI	USTABL	LE LSI SE	ETTING	S.				
Circuit Number 1 2	COPS1 COPS2	Circuit Descrip	tion			F	ermal M Ad xed In	lag dj. Ist L )	Elect	Breat tronic T	rip G	100% Rated Pole 3 3	Frame         Tr           Size         Rat           400 A         400           200 A         200	ip Load ing (kVA A 36.1 A 52.8	d 1 3
4 5 6 7	122_ CRAC-1 (Indoor Unit         20kVA UPS (Expandable         Generator Load Center Pa         SPARE         SPARE	it) to 40kVA) anel						X X X 				3 3 3 3 3	200 A         200           100 A         90           100 A         90           150 A         125           200 A         200           100 A         90	A     24.3       A     24.3       A     40.0       A     0.0       A     0.0       A     0.0	} ) 
9 10 11 12	119_BP-1       PROVISION       PROVISION       PROVISION       PROVISION											3 3 3 Total Connec	50 A 50   ed Load (kV	A 11.5   A): 208.9	  9
												Fotal Connecte	d Load (Amp	<b>s):</b> 579.8	8
Load Cla Lighting Mechaniv Miscellar Motor	assification cal neous		Conn 5 79 15	ected Lo 527 VA 9426 VA 0 VA 5018 VA	ad	Demand F 100.00 100.00 0.00% 100.00	actor % %	E	stimated 5527 79426 0 V 15018	I Deman 7 VA 6 VA /A 8 VA		To Tota	Pa tal Conn. Lo al Est. Dema Conn. Curre	nel Total ad: 2088 nd: 1594 ent: 580	ls 371 VA 421 VA A
Receptad	s:		10	8900 VA		54.59	0		59450	0 VA		Total Est. D	emand Curre	ent: 443 /	A
Brar General	<b>1ch Panel: CC</b> Lc Supplier <u>Mc</u> Enclosur Panel Comments:	<b>DPS1</b> ocation: ELECT 390 d From: COPSDP ounting: Surface re Type: Type 1				Voltage Phase Wire Ground	208Y/1 3 4 Equipn	120 nent Gro	bund Bus			<u>B</u> A.I.C. I <u>Mair</u> <u>Main</u> F	ranch: COPS tating: TBD Type: MLO tating: 225 A	6	(
Brar General Circuit Number 1 3 5	Image: Supplier Model         Supplier Model         Supplier Model         Enclosur         Panel Comments:         Circuit I         140_F-1         121_F-2         Site ACCU-2	DPS1 ocation: ELECT 390 d From: COPSDP ounting: Surface re Type: Type 1 Description	<b>Trip</b> 15 A 20 A 45 A	Poles 1 1 2	A 1.3 (	Voltage Phase Wire Ground	208Y/1 3 4 Equipn 3	220 nent Gro	c 0.4	Poles 3	<b>Trip</b> 15 A	B A.I.C. I Mair Main F	ranch: COPS Rating: TBD Type: MLO Rating: 225 A Circuit D (Outdoor Unit	escriptio	(
<b>Brar</b> <u>General</u> <u>Circuit</u> <u>Number</u> 1 3 5 7 9 11 13 15 17	Circuit E           140_F-1           121_F-2           Site_ACCU-2           Site_ACCU-1           108,117_BR-1           119_EUH-2           121_GWH-1, GWH-2	DPS1 ocation: ELECT 390 d From: COPSDP ounting: Surface re Type: Type 1 Description	Trip           15 A           20 A           45 A           60 A           20 A           20 A	Poles           1           2           1           2           1           1           1           1           1           1           1           1           1           1	A 1.3 ( 2.3 ( 1.3 (1))))))))))))))))))))))))))))))))))))	Voltage Phase Wire Ground 4 1.3 2 2.9 2 2.9 2 1.6	208Y/1 3 4 Equipm 3 0.4 2 3	20 nent Gro	C 0.4 2 3	Poles 3 2 2 2	<b>Trip</b> 15 A 35 A 35 A 20 A	E A.I.C. I Mair Main f Site_CRAC-1 Site_MSCU-1 Site_MSCU-2 Site_MSCU-2	ranch: COPS Rating: TBD Type: MLO Rating: 225 A Circuit D (Outdoor Unit	escriptio	
<b>Brar</b> General Circuit Number 1 3 5 7 9 11 13 5 7 9 11 13 15 17 19 21 23 25 27 29	Circuit I           140_F-1           121_F-2           Site_ACCU-2           Site_ACCU-1           108,117_BR-1           119_EUH-2           121_GWH-1, GWH-2           121_GWH-3, GWH-4, HV           SPARE	DPS1 ocation: ELECT 390 d From: COPSDP ounting: Surface re Type: Type 1	Trip           15 A           20 A	Poles         1         2         1	A 1.3 2.3 1.3 0.8 1 0.8 1 0.8 1 0 1 1 1 1 1 1 1 1 1 1 1 1 1	Voltage Phase Wire Ground 4 1.3 2 2.9 2 2.9 2 2.9 2 1.6 3 1.6 4 1.3 9 1.6 9 1.	208Y/1 3 4 Equipm 3 0.4 2 3 3 2 0	220 nent Gro 2.3 2.9 0.7 0.7 0	C 0.4 2 3 0.8 0.8	Poles 3 2 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Trip           15 A           35 A           35 A           20 A	E A.I.C. I Mair Main F Site_ CRAC-1 Site_MSCU-1 Site_MSCU-2 Site_MSCU-3 Site_Gen. Doo Site_Gen. Doo	ranch: COPS Rating: TBD Type: MLO Rating: 225 A Circuit D (Outdoor Unit (Outdoor Unit (Outdoor Unit (Outdoor Unit king Station - king Station - king Station -	escriptio	
<b>Brar</b> General Circuit Number 1 3 5 7 9 11 13 5 7 9 11 13 5 7 9 11 13 5 7 9 11 13 5 7 9 11 13 15 17 19 21 23 25 27 29 31 33 35 37 39	Circuit I           Supplie           Mc           Enclosur           Panel Comments:           Circuit I           140_F-1           121_F-2           Site_ACCU-2           Site_ACCU-1           108,117_BR-1           119_EUH-2           121_GWH-1, GWH-2           121_GWH-3, GWH-4, HV           SPARE           SPARE <td>DPS1 ocation: ELECT 390 d From: COPSDP ounting: Surface re Type: Type 1</td> <td>Trip         15 A         20 A          20 A          20 A          20 A          20 A    </td> <td>Poles 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1</td> <td>A 1.3 2.3 1.3 2.3 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1</td> <td>Voltage           Phase           Phase           Yoltage           Phase           Server           Server           .4           .4           .4           .4           .4           .1.3           .2           .2           .2           .2           .1.6           .1.6           .1.6           .1.6           .2           .2           .2           .1.6           .1.6           .1.6           .1.6           .1.6           .1.6           .2           .2           .2           .2           .2           .3           .3           .3           .3           .3           .3           .3           .3           .3           .3           .3           .3           .3           .3           .3           .3      <t< td=""><td>208Y/1 3 4 Equipm 3 0.4 2 3 3 2 0 0 0</td><td>220 nent Gro 2.3 2.9 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7</td><td>C 0.4 2 3 3 0.8 0 0 0 0 0</td><td>Poles 3 2 2 1 1 1 1 1 1 1 1 1 3</td><td>Trip           15 A           35 A           35 A           20 A</td><td>E A.I.C. I Mair Main F Site_CRAC-1 Site_MSCU-1 Site_MSCU-1 Site_MSCU-3 Site_Gen. Doo Site_Gen. Doo SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE</td><td>ranch: COPS Rating: TBD Type: MLO Rating: 225 A Circuit D (Outdoor Unit (Outdoor Unit (Outdoor Unit king Station - king Station - king Station -</td><td>escriptio</td><td></td></t<></td>	DPS1 ocation: ELECT 390 d From: COPSDP ounting: Surface re Type: Type 1	Trip         15 A         20 A          20 A          20 A          20 A          20 A	Poles 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	A 1.3 2.3 1.3 2.3 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Voltage           Phase           Phase           Yoltage           Phase           Server           Server           .4           .4           .4           .4           .4           .1.3           .2           .2           .2           .2           .1.6           .1.6           .1.6           .1.6           .2           .2           .2           .1.6           .1.6           .1.6           .1.6           .1.6           .1.6           .2           .2           .2           .2           .2           .3           .3           .3           .3           .3           .3           .3           .3           .3           .3           .3           .3           .3           .3           .3           .3 <t< td=""><td>208Y/1 3 4 Equipm 3 0.4 2 3 3 2 0 0 0</td><td>220 nent Gro 2.3 2.9 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7</td><td>C 0.4 2 3 3 0.8 0 0 0 0 0</td><td>Poles 3 2 2 1 1 1 1 1 1 1 1 1 3</td><td>Trip           15 A           35 A           35 A           20 A</td><td>E A.I.C. I Mair Main F Site_CRAC-1 Site_MSCU-1 Site_MSCU-1 Site_MSCU-3 Site_Gen. Doo Site_Gen. Doo SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE</td><td>ranch: COPS Rating: TBD Type: MLO Rating: 225 A Circuit D (Outdoor Unit (Outdoor Unit (Outdoor Unit king Station - king Station - king Station -</td><td>escriptio</td><td></td></t<>	208Y/1 3 4 Equipm 3 0.4 2 3 3 2 0 0 0	220 nent Gro 2.3 2.9 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7	C 0.4 2 3 3 0.8 0 0 0 0 0	Poles 3 2 2 1 1 1 1 1 1 1 1 1 3	Trip           15 A           35 A           35 A           20 A	E A.I.C. I Mair Main F Site_CRAC-1 Site_MSCU-1 Site_MSCU-1 Site_MSCU-3 Site_Gen. Doo Site_Gen. Doo SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE	ranch: COPS Rating: TBD Type: MLO Rating: 225 A Circuit D (Outdoor Unit (Outdoor Unit (Outdoor Unit king Station - king Station - king Station -	escriptio	
<b>Brar</b> General Circuit Number 1 3 5 7 9 11 13 5 7 9 11 13 5 7 9 11 13 3 5 7 9 11 13 3 5 7 7 9 11 13 3 5 7 7 9 11 13 3 5 7 7 9 11 13 3 5 7 7 9 11 13 3 5 7 7 9 11 13 3 5 7 7 9 11 13 15 17 17 19 21 23 25 27 29 31 33 35 37 39 41	Image: Supple state of the	DPS1 ocation: ELECT 390 d From: COPSDP ounting: Surface re Type: Type 1	Trip         15 A         20 A <t< td=""><td>Poles       1</td><td>A 1.3 ( 2.3 ( 2.3 ( 1.3 (1))))))))))))))))))))))))))))))))))))</td><td>Voltage Phase Wire Ground (A) (A) (A) (A) (A) (A) (A) (A) (A) (A)</td><td>208Y/1 3 4 Equipn 3 0.4 2 3 0.4 2 3 3 2 0 0 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 1 2 1 1 1 1</td><td>20 nent Gro 2.3 2.9 2.9 0.7 0.7 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0</td><td>C 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4</td><td>Poles 3 2 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1</td><td>Trip 15 A 35 A 35 A 20 A 20 A 20 A 20 A 20 A 20 A 20 A 20</td><td>E A.I.C. I Mair Main I Site_CRAC-1 Site_MSCU-1 Site_MSCU-2 Site_MSCU-3 Site_Gen. Doo Site_Gen. Doo Site_Gen. Doo Site_Gen. Doo Site_Gen. Doo Site_Gen. Doo Site_Gen. Doo Site_Gen. Doo SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE</td><td>ranch: COPS Rating: TBD Type: MLO Rating: 225 A Circuit D (Outdoor Unit (Outdoor Unit king Station - king Station - king Station - Ra</td><td>escriptio</td><td>Image: sep.         30 Recep.         30 Recep.         ater        </td></t<>	Poles       1	A 1.3 ( 2.3 ( 2.3 ( 1.3 (1))))))))))))))))))))))))))))))))))))	Voltage Phase Wire Ground (A) (A) (A) (A) (A) (A) (A) (A) (A) (A)	208Y/1 3 4 Equipn 3 0.4 2 3 0.4 2 3 3 2 0 0 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 1 2 1 1 1 1	20 nent Gro 2.3 2.9 2.9 0.7 0.7 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	C 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4	Poles 3 2 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Trip 15 A 35 A 35 A 20 A 20 A 20 A 20 A 20 A 20 A 20 A 20	E A.I.C. I Mair Main I Site_CRAC-1 Site_MSCU-1 Site_MSCU-2 Site_MSCU-3 Site_Gen. Doo Site_Gen. Doo Site_Gen. Doo Site_Gen. Doo Site_Gen. Doo Site_Gen. Doo Site_Gen. Doo Site_Gen. Doo SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE	ranch: COPS Rating: TBD Type: MLO Rating: 225 A Circuit D (Outdoor Unit (Outdoor Unit king Station - king Station - king Station - Ra	escriptio	Image: sep.         30 Recep.         30 Recep.         ater

	<u>Location:</u> RADIO SER <u>Supplied From:</u> <u>Mounting:</u> Surface <u>Enclosure Type:</u> Type 1	VER 344				<u>Voltage</u> <u>Phase</u> <u>Wire</u> <u>Ground</u>	<u>::</u> 208Y/ <u>::</u> 3 <u>::</u> 4 <u> :</u> Equipi	120 nent Gro	ound Bus	6		Branch: UPS A.I.C. Rating: TBD → Main Type: Main Lu Main Rating: 225 A	g Only	
General I	Panel Comments:													
Circuit Number	Circuit Description	Trip	Poles		A		В		C	Poles	Trip	Circuit Des	cription	
1	122_Rack Ceiling Recep	20 A	1	1	0.8					1	20 A	123_ Dispatch Console Power	Pole	
3	122_ Rack Ceiling Recep	20 A	1			1	0.8			1	20 A	123_ Dispatch Console Power	Pole	
5	122_Rack Ceiling Recep	20 A	1					1	0.8	1	20 A	123_ Dispatch Console Power	Pole	
7	122_ Rack Ceiling Recep	20 A	1	1	0.8					1	20 A	123_ Dispatch Console Power	Pole	
9	122_Rack Ceiling Recep	20 A	1			1	0.8			1	20 A	123_ Dispatch Console Power	Pole	
11	122_Rack Ceiling Recep	20 A	1					1	0.8	1	20 A	123_ Dispatch Console Power	Pole	
13	122_Rack Ceiling Recep	20 A	1	1	0.8					1	20 A	123_ Dispatch Console Power	Pole	
15	122_Rack Ceiling Recep	20 A	1			1	0.8			1	20 A	123_ Dispatch Console Power	Pole	
17	122_Rack Ceiling Twistlock Recep	30 A	1					2.2	0.5	1	20 A	123_TVs		
19	122_Rack Ceiling Twistlock Recep	30 A	1	2.2	1.4					1	20 A	122_Receps		
21	122_Rack Ceiling Twistlock Recep	30 A	1			2.2	1		0.5	1	20 A	122_BadgePass Control Panel	S	
23	122_ Rack Ceiling Twistlock Recep	30 A	1	0.0	0.0			2.2	0.5	1	20 A	122_DDC Panel		
25	122_ Rack Ceiling Twistlock Recep	30 A	1	2.2	2.2	0.0	0.0			1	30 A	122_ Rack Ceiling Twistlock Re	ecep	
2/	122_ Rack Celling Twistlock Recep	30 A	1			2.2	Z.Z	0.7	0	1	30 A	122_Rack Celling Twistlock Re	есер	
29		20 A	1	0	0			0.7	0	1	20 A	SPARE		
33		20 A	1	0	0	0	0			1	20 A	SPARE		
35		20 A	1			0	0	0	0	1	20 A	SPARE		
37	SPARE	20 A	1	0	0				0	1	20 A	SPARE		
39	SPARE	20 A	1			0	0			1	20 A	SPARE		
41	SPARE	20 A	1				Ū	0	0	1	20 A	SPARE		
	or race	Tota	al Load:	13.4	- kVA	13.0	) kVA	9.8	kVA		2071	OF THE		
Load Cla	scification	Conn	octod L	ad	Do		Summar actor	y: Ee	timatod	Domand		Panal		
Receptac		36	5200 VA	Jau		63 819	6		23100	) VA				
1.000p.000			200 171			00.017	<u> </u>		20100			Total Conn. Load:	36200 VA	
												Total Est. Demand:	23100 VA	
												Total Conn. Current:	100 A	
												Total Est. Demand Current:	64 A	
<u> </u>														
Remarks	:													

Bran	ch Panel: COPS2													
	<u>Location:</u> ELECT 390 <u>Supplied From:</u> COPSDP <u>Mounting:</u> Surface <u>Enclosure Type:</u> Type 1					<u>Voltage</u> <u>Phase</u> <u>Wire</u> <u>Ground</u>	<u>e:</u> 208Y/ <sup>*</sup> e: 3 e: 4 <u>e:</u> Equipr	120 ment Gro	ound Bus	6		<u>Branch:</u> COPS <u>A.I.C. Rating:</u> TBD <del>→</del> <u>Main Type:</u> MLO <u>Main Rating:</u> 225 A		-<1>
<u>General  </u>	Panel Comments:													
Circuit Number	Circuit Description	Trip	Poles		A		В		С	Poles	Trip	Circuit Des	cription	Circu Numb
1	117_Receps	20 A	1	0.9	0.9					1	20 A	136_West TVs		2
3	114_ Recep 112 Recep	20 A	1			1	0.9	1	11	1	20 A 20 A	136_West IVs 136_Recens		4
7	108_ Receps	20 A	1	0.9	1.2					1	20 A	136_West Floorboxes		8
9	111_ Receps	20 A	1			1.1	1.2			1	20 A	136_West Floorboxes		10
11	113_ Receps	20 A	1	11	0.0			1.1	1.2	1	20 A	136_West Floorboxes		12
15		20 A		1.1	0.9	2.3	0.9			1	20 A	136 East TVs		14
17	121_ Dryer	30 A	2					2.3	1.1	1	20 A	136_Receps		18
19	121_Washer	20 A	1	1	1.2	10	10			1	20 A	136_East Floorboxes		20
21	127,128,137_ Receps	20 A	1			1.3	1.2	1	12	1	20 A 20 A	136_East Floorboxes		22
25	124_ U/C Ref	20 A	1	1.2	0.5			<u> </u>	1.2	1	20 A	136_West AV Rack		26
27	124_ Above Counter Recep	20 A	1			1	0.5			1	20 A	136_East AV Rack		28
29	126_ Freezer	20 A	1	1.5	0.0			1.2	0.9	1	20 A	119, 121_ Receps		30
33	125, 120_ Receps	20 A	1	1.5	0.0	1.2	0.8			1	20 A	123_Dispatch Console		32
35	125_ Micro	20 A	1					1.2	0.8	1	20 A	123_ Dispatch Console		36
37	125_Receps	20 A	1	1	0.8	0.5				1	20 A	123_ Dispatch Console		38
39 41	125_ Range	20 A	1			0.5	1.1	12	0.6	1	20 A	123_Receps		40
43	125_ Receps	20 A	1	1.2	0.7			1.2	0.0	1	20 A	Lighting_ North Bunks, Restroc	ms, Offices	44
45	125_ Dishwasher	20 A	1			1.2	0.7			1	20 A	Lighting_ Dispatch		46
47	125_ Hood	20 A	1					1	0.5	1	20 A	Lighting_ South Kitchen, Pantry	, Restrooms	48
49 51	137_EWC Exterior Recens North	20 A	1	0.5	0.7	0.4	0.8			1	20 A	Lighting_ Training Rooms		50
53	Exterior Receps South	20 A	1			0.4	0.0	0.5	0	1	20 A	SPARE		54
55	SPARE	20 A	1	0	0					1	20 A	SPARE		56
57	SPARE	20 A	1			0	0			1	20 A	SPARE		58
59 61	SPARE SDADE	20 A	1	0	0			0	0	1	20 A	SPARE		60
63	SPARE	20 A	1	0	0	0	0			1	20 A	SPARE		64
65	SPARE	20 A	1					0	0	1	20 A	SPARE		66
67	SPARE	20 A	1	0	0					1	20 A	SPARE		68
69	SPARE	20 A	1			0	0	0	0	1	20 A	SPARE		70
73	SPARE	20 A	1	0	0			0	0	1	20 A	SPARE		72
75	SPARE	20 A	1			0	0			1	20 A	SPARE		76
77	SPARE	20 A	1					0	0	1	20 A	SPARE		78
79 81	SPARE SDADE	20 A	1	0	0	0	0			1	20 A	SPARE		80
83	SPARE	20 A	1			0	0	0	0	1	20 A	SPARE		84
		Tot	al Load:	17.0	kVA	18.0	kVA	17.8	3 kVA			1		
		0	4 1 1			Load	Summar	y:	<i>c</i>	D			<b>T</b> - 4 - 1 -	
Lighting	ssincation	Conr	1994 VA	uau	De	100.00	астог %	E	3994	VA		Pane	TOCAIS	
Motor		2	2200 VA			100.00	%		2200	VA		Total Conn. Load:	52754 VA	
Receptac	e	4	6560 VA	_		60.74%	6		28280	AV C		Total Est. Demand:	34474 VA	
												Total Conn. Current:	146 A	
												iotai Est. Demand Current:	90 A	
Remarka														
Remarks														

![](_page_20_Figure_12.jpeg)

	Location: SUPPLY STOR 25 Supplied From: COPSDP Mounting: Surface Enclosure Type: Type 1	8				<u>Voltage</u> <u>Phase</u> <u>Wire</u> <u>Ground</u>	: 208Y/1 : 3 : 4 : Equipr	120 nent Gro	ound Bus	3		Branch: COPS A.I.C. Rating: TBD → Main Type: Main Bre Main Rating: 225 A	eaker 1	
<u>General</u>	Panel Comments:													
Circuit Number	Circuit Description	Trip	Poles		A		3		C	Poles	Trip	Circuit Des	cription	Circuit Numbe
1	109_ F-3	20 A	1	1.3	2.9					2	60 A	Site ACCU-3		2
3	109_F-5	20 A	1			1.3	2.9							4
5	133_F-4	20 A	1	-				1.3	2.3	2	45 A	Site ACCU-5		6
7	131_BR-1	20 A	1	1	2.3	10								8
9	100_EUH-1	20 A	1			1.6	2.9	1 4	2.0	2	60 A	Site_ACCU-4		10
12	110_Receps	20 A	1	10	11			1.4	2.9	1	20 4	120 Decene		14
15	100 Receps	20 A	1	I.Z	1.1	11	11			1	20 A 20 A	130_ Receps		14
17	103_INECEPS	20 A	1			1.1	1.1	11	11	1	20 A	134 Recens		18
10	106 Receps	20 A	1	11	0.7			1.1	1.1	1	20 A	134_ Neceps		20
21	105_Receps	20 A	1	1.1	0.7	0.9	13			1	20 A	100 101 129 132 133 Recept		20
23	105_Floorboxes	20 A	1			0.0	1.0	0.8	0.7	1	20 A	137 Recepts		24
25	104 Receps	20 A	1	1.1	0.5				•	1	20 A	137 EWC		26
27	103 Receps	20 A	1			1.1	0.9			1	20 A	Lighting East Offices		28
29	102 Receps	20 A	1					0.8	0.6	1	20 A	Lighting South Offices		30
31	102 Receps	20 A	1	0.6	1.2					1	20 A	Site Vehicle Gate		32
33	102_Receps	20 A	1			1.1	0			1	20 A	SPARE		34
35	SPARE	20 A	1					0	0	1	20 A	SPARE		36
37	SPARE	20 A	1	0	0					1	20 A	SPARE		38
39	SPARE	20 A	1			0	0			1	20 A	SPARE		40
41	SPARE	20 A	1					0	0	1	20 A	SPARE		42
43	SPARE	20 A	1	0	0					1	20 A	SPARE		44
45	SPARE	20 A	1			0	0			1	20 A	SPARE		46
47	SPARE	20 A	1					0	0	1	20 A	SPARE		48
49	SPARE	20 A	1	0	0					1	20 A	SPARE		50
51	SPARE	20 A	1			0	0			1	20 A	SPARE		52
53	SPARE	20 A	1					0	0	1	20 A	SPARE		54
		Tota	al Load:	15.0	) kVA	16.1	kVA	13.0	kVA					
		-				Load	Summar	y:		_				
Load Cla	assification	Conn	ected Lo	bad	De	mand Fa	actor	Es	timated	Demand		Panel	Iotals	
Lighting		1	533 VA			100.00%	/o		1533	VA		<b>.</b>		
Viecnani			2908 VA			100.00%	/o /		22900			Total Conn. Load:	44 145 VA	
Poponta		19	104 VA			76 07%	<u>′0</u>		1/04			Total Conn. Currents	102 A	
лесеріа			0040 VA			10.91 /	0		14270	JVA		Total Est Demand Current:	123 Α 111 Δ	
												Total Lot. Demaild Guirellt.		
Remarks	S:													

![](_page_20_Picture_15.jpeg)