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NOTE: ALL SYMBOLS MAY NOT APPLY (TYPICAL FOR ALL SYMBOL LEGENDS)

ELECTRICAL SYMBOL LEGEND			
CODED PLAN NOTE	DETAIL # SHEET #	REFERENCE TAG	
XX	XXX		
EQ			EQUIPMENT DESIGNATION
MDP-22			CIRCUIT DESIGNATION PANEL DESIGNATION - CIRCUIT NUMBER
K	3		ELECTRIC UTILITY KEY BOX
FL	a		FAN/LIGHT COMBINATION FIXTURE
F	D		EXHAUST FAN
J	F		JUNCTION BOX
□	K		NON-FUSED DISCONNECT SWITCH
□	M		FUSED DISCONNECT SWITCH
□	OS		MOTOR
□	OR		PUSH BUTTON
B	PL		BUZZER/BELL
LVT	T		LOW VOLTAGE TRANSFORMER
○	OS		SINGLE RECEPTACLE 20A, 120V
○	OS		SPECIAL RECEPTACLE
○	SP		DUPLEX RECEPTACLE 20A, 120V
○	Pc		QUADRUPLEX RECEPTACLE 20A, 120V
○	TC		GFCI DUPLEX RECEPTACLE 20A, 120V
○	#A		GFCI QUADRUPLEX RECEPTACLE 20A, 120V
○	W		IG DUPLEX RECEPTACLE 20A, 120V
○	W		IG QUADRUPLEX RECEPTACLE 20A, 120V
○	W		SPLIT WIRED DUPLEX RECEPTACLE 20A, 120V
○	W		SPLIT WIRED QUADRUPLEX RECEPTACLE 20A, 120V
○	TV		TWISTLOCK RECEPTACLE
○	WA		FLUSH MTD AS INDICATED BY BOX AROUND DEVICE, FLR-FLOOR, CLG-CEILING
MB			PANELBOARD/LOADCENTER
MB			FLUSH MOUNT PANELBOARD/LOADCENTER
M	SA		UTILITY SERVICE METER
PLUGMOLD	SA		PLUGMOLD - SEE PLAN VIEW FOR SPECIFIC LENGTHS
ANNC	SA		GENERATOR ANNUCIATOR
PP			POWER POLE
UPS			UNINTERRUPTIBLE POWER SUPPLY

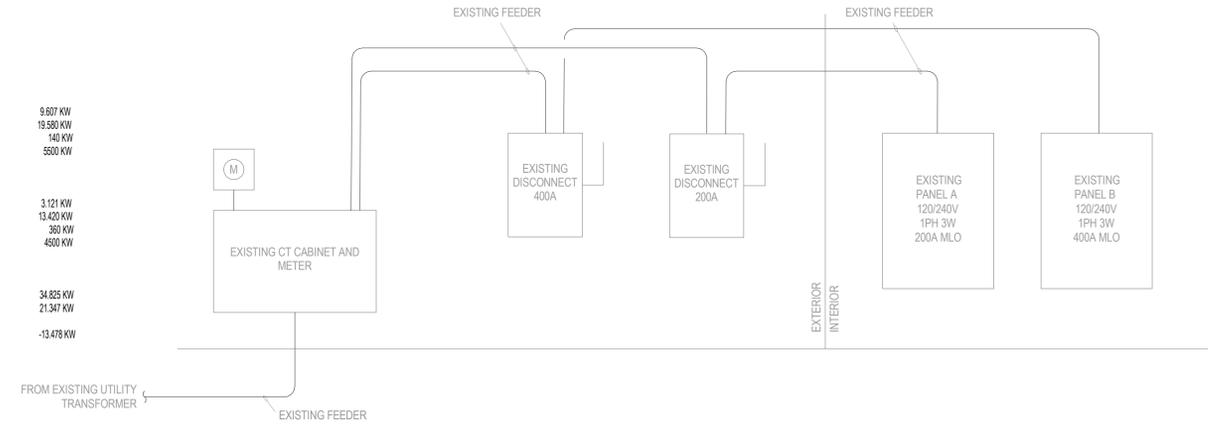
ELECTRICAL NOTATIONS			
AC	ABOVE COUNTER	LV	LOW VOLTAGE
AF	ABOVE FINISHED FLOOR	MBJ	MAIN BONDING JUMPER
AFG	ABOVE FINISHED GRADE	MC	MECHANICAL CONTRACTOR
BPS	BOLTED PRESSURE SWITCH	MTD	MOUNTED
CLG	CEILING MOUNTED	NTS	NOT TO SCALE
CKT	CIRCUIT	(PART)	INDICATES CIRCUIT USED ELSEWHERE
EC	ELECTRICAL CONTRACTOR	PC	PLUMBING CONTRACTOR
EM	EMERGENCY	SSBJ	SUPPLY-SIDE BONDING JUMPER
ETR	EXISTING TO REMAIN	SUC	SITE UTILITY CONTRACTOR
FLR	FLOOR MOUNTED	TYP	TYPICAL
FSC	FIRE SUPPRESSION CONTRACTOR	UG	UNDERGROUND
GC	GENERAL CONTRACTOR	UNO	UNLESS NOTED OTHERWISE
GFCI	GROUND FAULT CIRCUIT INTERRUPTER	WP	WEATHERPROOF
GFEP	GROUND FAULT EQUIPMENT PROTECTION	WG	WIRE GUARD
GND	GROUND	WR	WEATHER RESISTANT
HC	HVAC CONTRACTOR	XX*	DIMENSIONED HEIGHT
IG	ISOLATED GROUND		

ELECTRICAL LINETYPE LEGEND	
---	SWITCH LEG
---	UNDERGROUND ELECTRIC
---	LOW VOLTAGE
---	UNDERGROUND LOW VOLTAGE

ELECTRICAL SHEET INDEX	
SHEET NO.	SHEET DESCRIPTION
E001	ELECTRICAL COVER SHEET
E001	LIGHTING PLAN
E002	POWER PLAN
E001	ELECTRICAL DETAILS
E001	ENERGY CODE COMPLIANCE
E001	ELECTRICAL SPECIFICATIONS

- MAIN ELECTRICAL GENERAL NOTES:**
- ALL ELECTRICAL INSTALLATIONS MUST COMPLY WITH THE NATIONAL ELECTRICAL CODE (NEC) AND ALL STATE AND LOCAL CODES.
  - ELECTRICAL SERVICE TO BE INSTALLED IN COMPLIANCE WITH NEC ARTICLE 230.
  - CONTRACTOR SHALL OBTAIN FAULT CURRENT INFORMATION FROM UTILITY COMPANY AND PERFORM SHORT CIRCUIT CALCULATIONS. SIZE FUSES AND EQUIPMENT A.I.C. RATINGS ACCORDINGLY.
  - CONTRACTOR SHALL INSTALL A SEPARATE EQUIPMENT GROUNDING CONDUCTOR SIZED PER NEC TABLE 250.122 FOR ALL BRANCH CIRCUITS INSTALLED IN NON-METALLIC CONDUITS. METALLIC CONDUITS MAY BE USED AS EQUIPMENT GROUNDING CONDUCTORS PER NEC.
  - CONTRACTOR SHALL VERIFY ALL WIRE SIZING DUE TO VOLTAGE DROP CAUSED BY IN-FIELD ROUTING / INSTALLATION DISTANCES.
  - SERVICE ENTRANCE EQUIPMENT SHALL BE GROUNDED WITH A SEPARATE COPPER OR ALUMINUM CONDUCTOR AS INDICATED ON THE DRAWINGS AND PER NEC ARTICLE 250.50(A). GROUNDING CONDUCTOR SHALL ALSO BE CONNECTED TO A 3/8" DIAMETER X 8'-0" LONG GROUND ROD FOR SUPPLEMENTAL GROUNDING PER NEC ARTICLE 250.54.
  - CONTRACTOR IS RESPONSIBLE FOR LABELING ALL PANELS, DISCONNECTS, LIGHTING CONTROLLERS, ETC., AND ALL CIRCUIT BREAKERS IN THE DISTRIBUTION PANELS PRIOR TO PROJECT COMPLETION. PROVIDE A TYPED DIRECTORY OF ALL CIRCUITS. BREAKERS USED FOR SWITCHING SHALL BE RATED ACCORDINGLY.
  - CONTRACTOR SHALL SUPPLY AND INSTALL ALL NEC REQUIRED EQUIPMENT DISCONNECTS (NOT ALL DISCONNECTS MAY BE SHOWN ON THE DRAWINGS). CONTRACTOR SHALL VERIFY ALL DISCONNECT SIZING WITH EACH EQUIPMENT NAMEPLATE RATING.
  - CONTRACTOR IS RESPONSIBLE TO SECURE AND PAY FOR ALL PERMITS. CONTRACTOR SHALL COMPLY WITH ALL STATE, LOCAL, AND NATIONAL CODES. CONTRACTOR SHALL SCHEDULE INSPECTIONS SO JOB PROGRESS IS NOT DELAYED.
  - CONTRACTOR SHALL SUPPLY AND INSTALL ALL EQUIPMENT IN NEW CONDITION AND U.L. LISTED UNLESS NOTED OTHERWISE.
  - CONTRACTOR SHALL MAKE ARRANGEMENTS WITH LOCAL POWER COMPANY FOR THE INSTALLATION OF NEW ELECTRICAL SERVICE AND METER. INSTALL NEW SERVICE DISTRIBUTION EQUIPMENT AS SPECIFIED ON ELECTRICAL DRAWINGS.
  - CONTRACTOR SHALL COORDINATE ALL ELECTRICAL WORK WITH OTHER TRADES AND ARCHITECTURAL DRAWINGS TO ELIMINATE CONFLICTS.
  - PRIOR TO CONSTRUCTION START, CONTRACTOR SHALL SUBMIT SHOP DRAWINGS AND OPERATION MANUALS FOR ALL EQUIPMENT AND ACCESSORIES FOR OWNER APPROVAL.
  - CONTRACTOR SHALL PERFORM ALL WORK IN A NEAT AND PROFESSIONAL MANNER.
  - PROVIDE FLEXIBLE CONDUIT FOR ALL VIBRATING EQUIPMENT. PROVIDE FLEXIBLE CONDUIT FOR LIGHT FIXTURE CONNECTIONS.
  - CONTRACTOR IS RESPONSIBLE FOR VERIFYING ELECTRICAL EQUIPMENT INFORMATION WITH MANUFACTURERS. CONTRACTOR SHALL PROVIDE ANY ADDITIONAL ELECTRICAL CONNECTIONS OR SERVICES TO EQUIPMENT WHICH ARE NOT SHOWN ON DRAWINGS.
  - ALL PENETRATIONS OF WALL, ROOF, AND CEILINGS TO BE SEALED AS REQUIRED WITH U.L. APPROVED FIRE SEALANT TO MAINTAIN FIRE RATING AS REQUIRED. ALL ROOF PENETRATIONS, IF APPLICABLE, ARE TO BE COORDINATED WITH THE OWNER'S DESIGNATED ROOFING CONTRACTOR.
  - ELECTRICAL EQUIPMENT EXPOSED TO WEATHER CONDITIONS SHALL BE WEATHERPROOF TYPE. CONDUIT EXPOSED TO WEATHER CONDITIONS OR IN CONTACT WITH CONCRETE SHALL BE POLYVINYL CHLORIDE (PVC) OR GALVANIZED HEAVY WALL STEEL (GRC).
  - ALL EXTERIOR RECEPTACLES SHALL BE WEATHER RESISTANT AS WELL AS WEATHERPROOF PER NEC 406.9.
  - CONTRACTOR SHALL SUBMIT AS-BUILT DRAWINGS TO THE OWNER IF INSTALLATION VARIES FROM THE CONTRACT DRAWINGS.
  - ANY CONDUIT AND WIRE SIZES SHOWN ARE MINIMUMS. CONTRACTOR SHALL INCREASE SIZES (DUE TO VOLTAGE DROP, QUANTITY OF CURRENT CARRYING CONDUCTORS IN THE SAME CONDUIT/RACEWAY, ETC.) AS REQUIRED BY THE NEC.
  - ROOFTOP EQUIPMENT (IF APPLICABLE) CONTRACTOR SHALL INSTALL A WEATHERPROOF DISCONNECT FOR EACH UNIT. CONDUITS SHALL ENTER THE UNDERSIDE OF EACH HVAC UNIT FROM WITHIN THE CURBED AREA FOR THAT UNIT (THEREBY AVOIDING PENETRATIONS THROUGH THE ROOF MEMBRANE). IF J-BOX IS USED FOR SUPPLYING POWER TO MULTIPLE UNITS, THE J-BOX MUST BE LOCATED WITHIN 25 FEET OF EACH UNIT'S DISCONNECT PER THE NEC. ARTICLE 240.21(B)(2). CONTRACTOR SHALL SUPPLY AND INSTALL A 120V VAC WEATHERPROOF GFCI RECEPTACLE WITHIN 2' OF EACH UNIT.
  - ALL CONTRACTORS, PRIOR TO BID SUBMISSION PROCESS, SHALL VISIT PROPOSED WORK SITE AND FIELD VERIFY ALL EXISTING CONDITIONS. ANY CONDITIONS THAT DIFFER FROM THAT SHOWN ON THIS PLAN SHALL BE REPORTED TO THE ARCHITECT/ENGINEER SO THAT NEW AND REVISED BID DRAWINGS OR INFORMATION MAY BE ISSUED. MODIFICATIONS TO SCOPE OF WORK WHICH RESULT FROM CONTRACTORS NEGLIGENCE TO VISIT THE SITE PRIOR TO BID SUBMISSION SHALL BE CONTRACTORS SOLE RESPONSIBILITY.
  - ALL WORK SHALL BE MEET OR EXCEED THE APPLICABLE PORTIONS OF THE DEPARTMENT OF AGING AND DISABILITY SERVICES (DADS) LICENSING STANDARDS.

ELECTRICAL LOAD SUMMARY	
<b>REMOVED ELECTRICAL LOAD</b>	
REMOVED LIGHT FIXTURES	9.607 KW
REMOVED POWER	19.560 KW
REMOVED HVAC	146 KW
REMOVED PLUMBING	5500 KW
<b>ADDED ELECTRICAL LOAD</b>	
ADDED LIGHT FIXTURES	3.121 KW
ADDED POWER	13.420 KW
ADDED HVAC	360 KW
ADDED PLUMBING	4500 KW
<b>LOAD SUMMARY</b>	
TOTAL REMOVED LOAD	34.825 KW
TOTAL ADDED LOAD	21.347 KW
TOTAL LOAD CHANGE FOR BUILDING	-13.478 KW



- RISER DIAGRAM GENERAL NOTES:**
- ALL WORK SHALL MEET OR EXCEED ALL NEC STANDARDS.
  - EC SHALL VERIFY ALL WIRE SIZING DUE TO IN FIELD ROUTING AND VOLTAGE DROP.
  - ALL 15A-20A CIRCUITS SHALL HAVE A MINIMUM #12 CU WIRE.
  - ALL BRANCH CIRCUIT WIRING SHALL BE COPPER UNLESS NOTED OTHERWISE.
  - PROVIDE APPROPRIATELY RATED EQUIPMENT, BREAKERS, FUSES, ETC. BASED ON SHORT CIRCUIT CALCULATIONS AND FAULT CURRENT INFORMATION FROM LOCAL UTILITY.
  - PROVIDE TYPE WRITTEN CIRCUIT DIRECTORY FOR EACH PANELBOARD.
  - PROVIDE PLACARD ON EACH PIECE OF DISTRIBUTION EQUIPMENT INDICATING EQUIPMENT DESIGNATION, VOLTAGE AND PHASE IDENTIFICATION. PLACARD SHALL BE ENGRAVED PHENOLIC WITH 1/4" TALL LETTERS.
  - ENTIRE RISER DIAGRAM IS EXISTING TO REMAIN AND SHOWN FOR REFERENCE ONLY.



**CONTRACTOR NOTE**

IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO NOTIFY THE ARCHITECT, LANDLORD AND TENANT OF ANY DISCREPANCIES ENCOUNTERED ON THE PLANS OR IN EXISTING SITE CONDITIONS PRIOR TO SUBMISSION OF BID.

BIDDERS ARE TO VISIT THE SITE AND FAMILIARIZE THEMSELVES WITH EXISTING CONDITIONS AND SATISFY THEMSELVES AS TO THE NATURE AND SCOPE OF THE WORK. THE BASE BID SHALL REFLECT MODIFICATIONS TO SYSTEMS AND DEVICES AS REQUIRED BY STATE, LOCAL AND FEDERAL CODES WHETHER INDICATED OR NOT ON CONTRACT DOCUMENTS. THE SUBMISSIONS OF A BID WILL BE EVIDENCE THAT SUCH AN EXAMINATION AND COMPLIANCE WITH GOVERNING CODES/REQUIREMENTS HAS BEEN MADE. LATER CLAIMS FOR LABOR, EQUIPMENT, OR MATERIALS REQUIRED, OR FOR DIFFICULTIES ENCOUNTERED WHICH COULD HAVE BEEN FORESEEN HAD AN EXAMINATION AND CODE/REQUIREMENTS REVIEW BEEN MADE, WILL NOT BE ALLOWED.

ENCORE MEMORY CARE DAY CENTER  
LEWISVILLE, TX

**bldg**  
ARCHITECTURE



ELECTRICAL COVER SHEET	
SUBMITTAL DATE: 02/24/25	SHEET NUMBER: E001
ISSUED FOR: PERMIT	

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### LUMINAIRE SCHEDULE

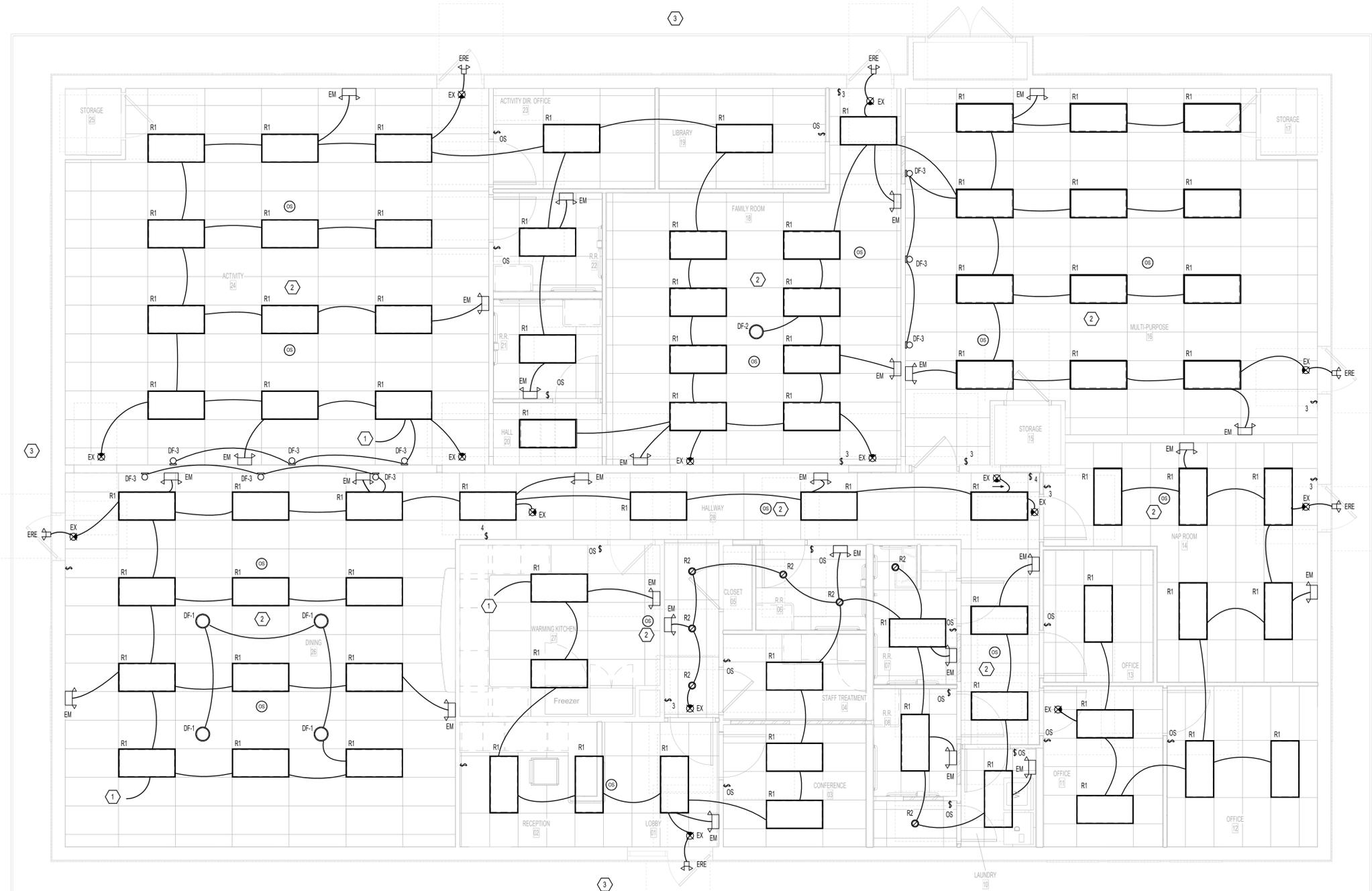
TAG	MANUFACTURER	MODEL NUMBER	VOLTAGE	LAMP TYPE	KELVIN	WATTS	LUMENS	MOUNTING TYPE	DESCRIPTION / REMARKS
DF-1	HINKLEY	47573LCB	120	LED		60 VA		SUSPENDED	DINING ROOM DECO. LIGHTING, LACQUERED BRASS FINISH
DF-2	MINKKA LAVERY	5615-695-L	120	LED		20 VA		SUSPENDED	FAMILY ROOM DECO. LIGHTING, SOFT BRASS FINISH
DF-3	MINKKA LAVERY	924-695-L	120	LED		15 VA		WALL	INTERIOR DECO SCONCE LIGHT, SOFT BRASS FINISH
EM	LITHONIA	ELM2L-M12	120	LED		2 VA		SURFACE	EXIT LIGHT WITH 90 MINUTE BATTERY BACKUP
ERE	LITHONIA	ERE-GY-T-SQ-WP	120	LED		1 VA		SURFACE	(2) HEAD REMOTE EXTERIOR EMERGENCY EGRESS
EX	LITHONIA	EXRG-M6	120	LED		2 VA		SURFACE	EXIT SIGN WITH 90 MINUTE BATTERY BACKUP
R1	LITHONIA	LDNSQ-30-20-LS4-AR-L-SS-MVOLT-EZ1 TRW	120	LED	3500	22 VA		RECESSED	2X4 TROFFER
R2	LITHONIA	LDN6-35/10-MVOLT-GZ10-HSG L06AR-LSS-TRIM	120	LED	3500	20 VA		RECESSED	6" DOWNLIGHT

#### GENERAL NOTES:

- ALL WORK SHALL MEET OR EXCEED ALL NEC STANDARDS.
- SEE MAIN ELECTRICAL GENERAL NOTES FOR MORE INFORMATION.
- COORDINATE ALL WORK WITH OTHER TRADES PRIOR TO ROUGH-IN.
- VERIFY EXACT LOCATIONS AND MOUNTING HEIGHTS FOR ALL FIXTURES AND DEVICES PRIOR TO ROUGH-IN.
- ALL EXIT/EMERGENCY LIGHTING SHALL BE PROVIDED WITH AN UNSWITCHED CONDUCTOR ON THE INDICATED CIRCUIT.
- ALL FIXTURES USED FOR EMERGENCY EGRESS LIGHTING SHALL COME EQUIPPED WITH AN EMERGENCY BATTERY FOR BACK-UP POWER.
- ALL FIXTURES SHOWN WITH A "N" TAG SHALL BE CONSIDERED A NIGHT LIGHT AND BE CONNECTED AHEAD OF ALL CONTROLS.
- VERIFY THE COLOR OF ALL FIXTURES, DEVICES, AND COVER PLATES WITH OWNER.
- PROVIDE PORCELAIN LAMP HOLDER WITH OUTLET COMBO AT ALL ATTIC ACCESS POINTS. MOUNT TO STRUCTURE IN ATTIC. COORDINATE EXACT LOCATION IN FIELD PRIOR TO ROUGH-IN.
- FOR ALL OCCUPANCY SENSORS, PROVIDE SWITCHPACK AND ALL OTHER REQUIRED HARDWARE WHERE NECESSARY. COORDINATE ALL SETTINGS WITH OWNER PRIOR TO ROUGH-IN.

#### PLAN NOTES:

- CIRCUIT NEW LIGHT FIXTURES TO EXISTING LIGHTING CIRCUIT MADE AVAILABLE THROUGH DEMOLITION. EXTEND, MODIFY, SUPPLEMENT AND TRUNCATE ALL WIRING AND CONDUITS AS NEEDED. E.C. TO FIELD VERIFY EXISTING CIRCUIT IS NOT OVERLOADED WITH ADDED DEVICES.
- PROVIDE CEILING MOUNT OCCUPANCY SENSOR.
- ALL EXTERIOR LIGHTING DEVICES, CIRCUITS, AND CONTROLS ARE EXISTING TO REMAIN.



**1** LIGHTING PLAN  
1/4" = 1'-0"

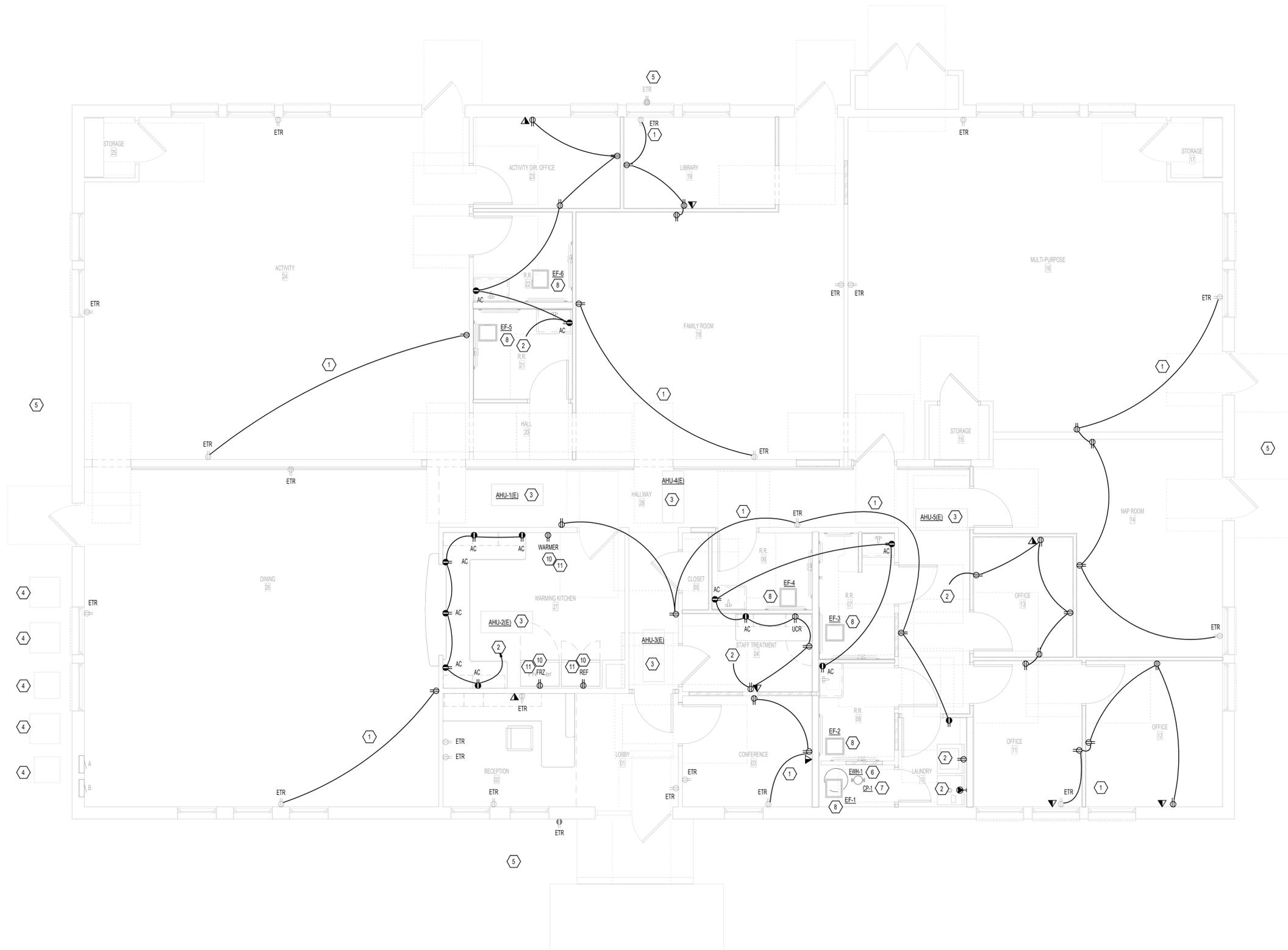
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LEWISVILLE, TX



**CONTRACTOR NOTE**  
IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO NOTIFY THE ARCHITECT, LANDLORD AND TENANT OF ANY DISCREPANCIES ENCOUNTERED ON THE PLANS OR IN EXISTING SITE CONDITIONS PRIOR TO SUBMISSION OF BID. BIDDERS ARE TO VISIT THE SITE AND FAMILIARIZE THEMSELVES WITH EXISTING CONDITIONS AND SATISFY THEMSELVES AS TO THE NATURE AND SCOPE OF THE WORK. THE BASE BID SHALL REFLECT MODIFICATIONS TO SYSTEMS AND DEVICES AS REQUIRED BY STATE, LOCAL AND FEDERAL CODES WHETHER INDICATED OR NOT ON CONTRACT DOCUMENTS. THE SUBMISSIONS OF A BID WILL BE EVIDENCE THAT SUCH AN EXAMINATION AND COMPLIANCE WITH GOVERNING CODES/REQUIREMENTS HAS BEEN MADE. LATER CLAIMS FOR LABOR, EQUIPMENT, OR MATERIALS REQUIRED, OR FOR DIFFICULTIES ENCOUNTERED WHICH COULD HAVE BEEN FORESEEN HAD AN EXAMINATION AND CODE/REQUIREMENTS REVIEW BEEN MADE, WILL NOT BE ALLOWED.

**LIGHTING PLAN**  
SUBMITTAL DATE: 02/24/25  
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SHEET NUMBER: E101

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- GENERAL NOTES:**
- A. ALL WORK SHALL MEET OR EXCEED ALL NEC STANDARDS.
  - B. SEE MAIN ELECTRICAL GENERAL NOTES FOR MORE INFORMATION.
  - C. COORDINATE ALL WORK WITH OTHER TRADES PRIOR TO ROUGH-IN.
  - D. VERIFY EXACT LOCATIONS AND MOUNTING HEIGHTS FOR ALL FIXTURES AND DEVICES PRIOR TO ROUGH-IN.
  - E. VERIFY THE COLOR OF ALL FIXTURES, DEVICES, AND COVER PLATES WITH OWNER.

- PLAN NOTES:**
1. CIRCUIT NEW ELECTRICAL DEVICE TO EXISTING CIRCUIT AS SHOWN. EXTEND, MODIFY, SUPPLEMENT, AND TRUNCATE ALL WIRING AND CONDUIT AS NEEDED. E.C. TO FIELD VERIFY EXISTING CIRCUIT IS NOT OVERLOADED WITH ADDED DEVICES.
  2. CIRCUIT NEW ELECTRICAL DEVICE TO NEW SPARE CIRCUIT MADE AVAILABLE THROUGH DEMOLITION. EXTEND, MODIFY, SUPPLEMENT, AND TRUNCATE ALL WIRING AND CONDUIT AS NEEDED. E.C. TO FIELD VERIFY EXISTING CIRCUIT IS NOT OVERLOADED WITH ADDED DEVICES.
  3. ELECTRICAL CONNECTIONS, CIRCUITS, AND CONTROLS FOR EXISTING AIR HANDLING UNITS (AHUS) ARE EXISTING TO REMAIN.
  4. ELECTRICAL CONNECTIONS, CIRCUITS, AND CONTROLS FOR EXISTING OUTDOOR UNITS ARE EXISTING TO REMAIN.
  5. ALL EXTERIOR ELECTRICAL RECEPTACLES AND CIRCUITS ARE EXISTING TO REMAIN.
  6. PROVIDE ELECTRICAL CONNECTION AND ACCESSIBLE SAFETY SWITCH TO SERVE NEW ELECTRIC WATER HEATER. VERIFY EXACT REQUIREMENTS WITH MANUFACTURER'S NAMEPLATE AND COORDINATE EXACT LOCATION WITH PLUMBING CONTRACTOR PRIOR TO ROUGH-IN. CIRCUIT NEW CONNECTION TO NEW SPARE CIRCUIT MADE AVAILABLE THROUGH DEMOLITION OF EXISTING WATER HEATER.
  7. PROVIDE ELECTRICAL CONNECTION AND ACCESSIBLE DISCONNECT TO SERVE NEW ELECTRIC RECIRC PUMP. VERIFY EXACT REQUIREMENTS WITH MANUFACTURER'S NAMEPLATE AND COORDINATE EXACT LOCATION WITH PLUMBING CONTRACTOR PRIOR TO ROUGH-IN. CIRCUIT NEW CONNECTION TO NEW SPARE CIRCUIT MADE AVAILABLE THROUGH DEMOLITION.
  8. PROVIDE ELECTRICAL CONNECTION TO SERVE EXHAUST FAN. VERIFY EXACT REQUIREMENTS WITH MANUFACTURER'S NAMEPLATE AND COORDINATE EXACT LOCATION WITH MECHANICAL CONTRACTOR PRIOR TO ROUGH-IN. CONNECT WITH LIGHTING FOR CIRCUITRY AND CONTROLS.
  9. INSTALL RECEPTACLE FOR DRINKING FOUNTAIN IN A CONCEALED LOCATION. PROVIDE GFI TYPE BREAKER FOR THIS CIRCUIT.
  10. CIRCUIT NEW ELECTRICAL DEVICE TO NEW DEDICATED SPARE CIRCUIT MADE AVAILABLE THROUGH DEMOLITION. EXTEND, MODIFY, SUPPLEMENT, AND TRUNCATE ALL WIRING AND CONDUIT AS NEEDED. E.C. TO FIELD VERIFY EXISTING CIRCUIT IS NOT OVERLOADED WITH ADDED DEVICES. COORDINATE WITH OWNERS REP PRIOR TO ROUGH-IN FOR EXACT ELECTRICAL REQUIREMENTS.
  11. PROVIDE GFI TYPE BREAKER FOR THIS CIRCUIT.

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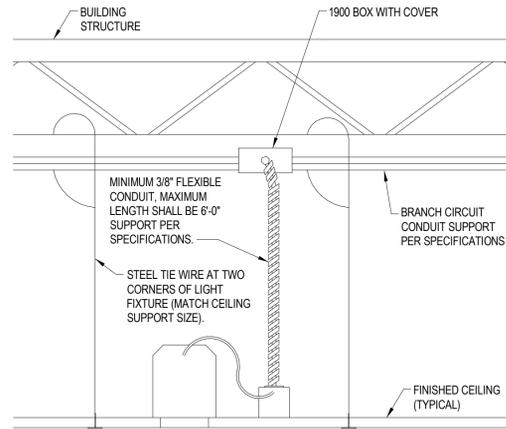
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**POWER PLAN**

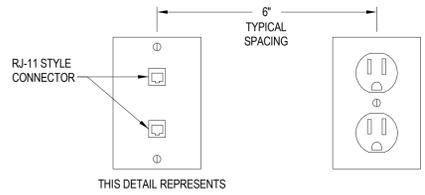
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**1** POWER FLOOR PLAN  
 1/4" = 1'-0"

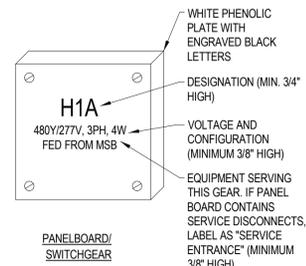
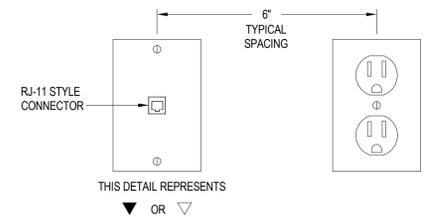
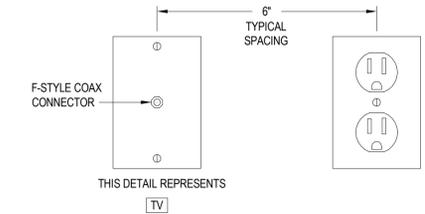
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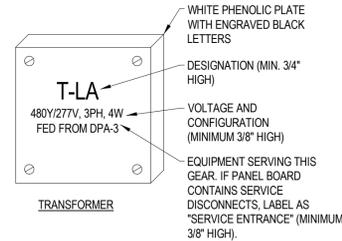
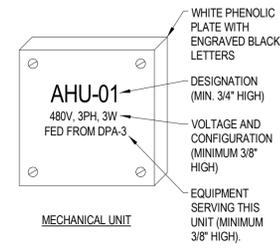
**7** RECESSED DOWNLIGHT DETAIL  
 NTS



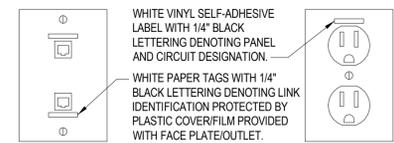
**6** OUTLET DETAILS  
 NTS



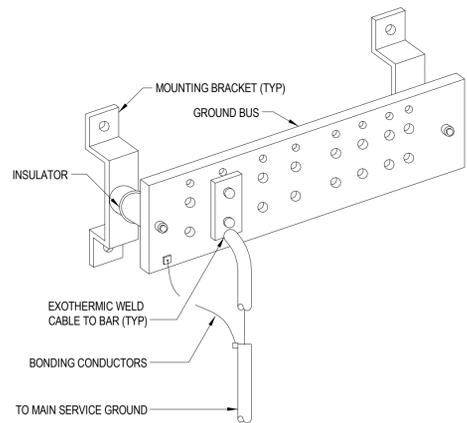
**5** IDENTIFICATION DETAILS - EQUIPMENT  
 NTS



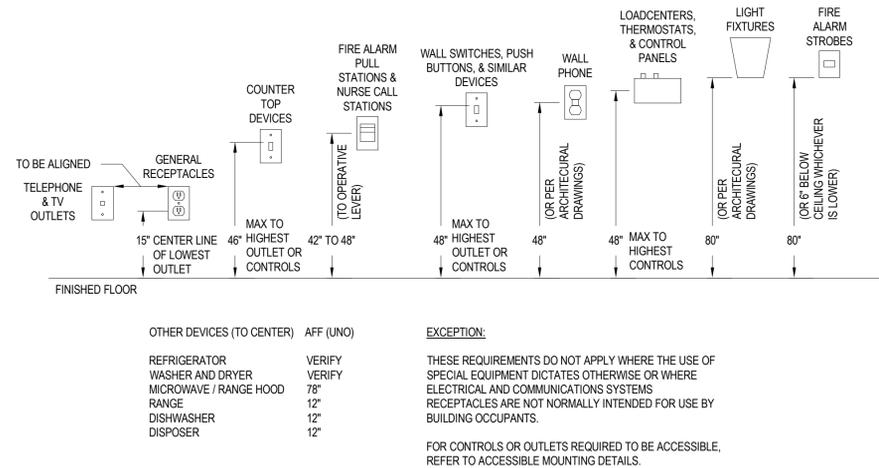
NOTE:  
 ATTACH SECURELY WITH STAINLESS STEEL SCREWS. NON-CORROSIVE POP RIVETS ARE ACCEPTABLE. ADHESIVE ATTACHMENT IS NOT ACCEPTABLE.



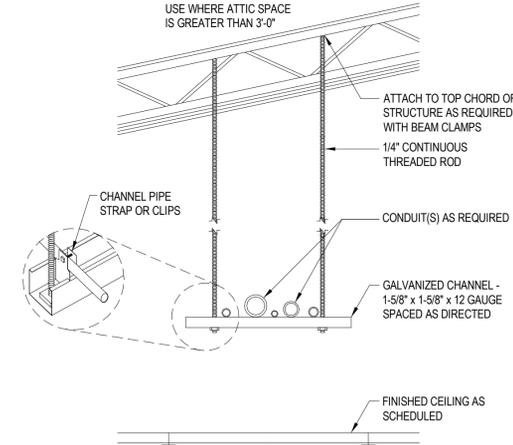
**4** IDENTIFICATION DETAILS - DEVICES  
 NTS



**3** GROUND BUS DETAIL - COMMUNICATIONS - NO IDF ROOMS  
 NTS



**2** DEVICE MOUNTING DETAILS - GENERAL  
 NTS



**1** CONDUIT SUPPORT DETAIL  
 NTS

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 BIDDERS ARE TO VISIT THE SITE AND FAMILIARIZE THEMSELVES WITH EXISTING CONDITIONS AND SATISFY THEMSELVES AS TO THE NATURE AND SCOPE OF THE WORK. THE BASE BID SHALL REFLECT MODIFICATIONS TO SYSTEMS AND DEVICES AS REQUIRED BY STATE, LOCAL AND FEDERAL CODES WHETHER INDICATED OR NOT ON CONTRACT DOCUMENTS. THE SUBMISSIONS OF A BID WILL BE EVIDENCE THAT SUCH AN EXAMINATION AND COMPLIANCE WITH GOVERNING CODES/REQUIREMENTS HAS BEEN MADE. LATER CLAIMS FOR LABOR, EQUIPMENT, OR MATERIALS REQUIRED, OR FOR DIFFICULTIES ENCOUNTERED WHICH COULD HAVE BEEN FORESEEN HAD AN EXAMINATION AND CODE/REQUIREMENTS REVIEW BEEN MADE, WILL NOT BE ALLOWED.



ELECTRICAL DETAILS  
 SUBMITTAL DATE: 02/24/25  
 SHEET NUMBER: E501  
 ISSUED FOR PERMIT

COMcheck Software Version COMcheckWeb  
**Interior Lighting Compliance Certificate**

**Project Information**

Energy Code: 2018 IECC  
 Project Title: Adult Daycare  
 Project Type: Alteration

Construction Site: 1504 North Garden Ridge, LEWISVILLE, Texas 75077  
 Owner/Agent:  
 Designer/Contractor: PE Services, 9 N Broadway St, LEBANON, Ohio 45036

**Allowed Interior Lighting Power**

A Area Category	B Floor Area (ft <sup>2</sup> )	C Allowed Watts / ft <sup>2</sup>	D Allowed Watts
1-Daycare (Office)	5000	0.79	3950
Total Allowed Watts =			3950

**Proposed Interior Lighting Power**

A Fixture ID : Description / Lamp / Wattage Per Lamp / Ballast	B Lamps/ Fixture	C # of Fixture	D Fixture Watt. (C X D)	E
Daycare (Office, 5000 sq.ft.)				
R1: R1: 2x4 TROFFER: Other:	1	77	34	2618
R2: R2: 6' LED DOWNLIGHT: Other:	1	12	7	84
DF1: DF1: PENDANT: Other:	4	4	60	240
DF2: DF2: PENDANT: Other:	1	1	20	20
DF3: DF3: SCONCE: Other:	1	9	15	135
Total Proposed Watts =				3097

**Interior Lighting PASSES**

**Interior Lighting Compliance Statement**

Compliance Statement: The proposed interior lighting alteration project represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application. The proposed interior lighting systems have been designed to meet the 2018 IECC requirements in COMcheck Version COMcheckWeb and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

Name - Title Signature Date

Project Title: Adult Daycare Report date: 03/20/25  
 Data filename: Page 2 of 6

Section # & Req.ID	Rough-In Electrical Inspection	Complies?	Comments/Assumptions
C405.2.3, C405.2.3.1, C405.2.3.2 [EL23]†	Daylight zones provided with individual controls that control the lights independent of general area lighting. See code section C405.2.3.2 Daylight-responsive controls for applicable spaces, C405.2.3.1 Daylight-responsive control function and section C405.2.3.2 Sidelit zone.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	<b>Exception:</b> Requirement does not apply.
C405.2.4 [EL26]†	Separate lighting control devices for specific uses installed per approved lighting plans.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
C405.2.4 [EL27]†	Additional interior lighting power allowed for special functions per the approved lighting plans and is automatically controlled and separated from general lighting.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
C405.3 [EL6]†	Exit signs do not exceed 5 watts per face.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
C405.6 [EL26]†	Low-voltage dry-type distribution electric transformers meet the minimum efficiency requirements of Table C405.6.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
C405.7 [EL27]†	Electric motors meet the minimum efficiency requirements of Tables C405.7(1) through C405.7(4). Efficiency verified through certification under an approved certification program or the equipment efficiency ratings shall be provided by motor manufacturer (where certification programs do not exist).	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
C405.8.2, C405.8.2.1 [EL28]†	Escalators and moving walks comply with ASME A17.1/CSA B44 and have automatic controls configured to reduce speed to the minimum permitted speed in accordance with ASME A17.1/CSA B44 or applicable local code when not conveying passengers.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	<b>Exception:</b> Requirement does not apply.
C405.9 [EL29]†	Total voltage drop across the combination of feeders and branch circuits <= 3%.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.

**Additional Comments/Assumptions:**

1 | High Impact (Tier 1) | 2 | Medium Impact (Tier 2) | 3 | Low Impact (Tier 3)  
 Project Title: Adult Daycare Report date: 03/20/25  
 Data filename: Page 5 of 6

COMcheck Software Version COMcheckWeb  
**Inspection Checklist**

Energy Code: 2018 IECC

Requirements: 100.0% were addressed directly in the COMcheck software  
 Text in the "Comments/Assumptions" column is provided by the user in the COMcheck Requirements screen. For each requirement, the user certifies that a code requirement will be met and how that is documented, or that an exception is being claimed. Where compliance is itemized in a separate table, a reference to that table is provided.

Section # & Req.ID	Plan Review	Complies?	Comments/Assumptions
C103.2 [PR4]†	Plans, specifications, and/or calculations provide all information with which compliance can be determined for the interior lighting and electrical systems and equipment and document where exceptions to the standard are claimed. Information provided should include interior lighting power calculations, wattage of bulbs and ballasts, transformers and control devices.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.

**Additional Comments/Assumptions:**

1 | High Impact (Tier 1) | 2 | Medium Impact (Tier 2) | 3 | Low Impact (Tier 3)  
 Project Title: Adult Daycare Report date: 03/20/25  
 Data filename: Page 3 of 6

Section # & Req.ID	Final Inspection	Complies?	Comments/Assumptions
C303.3, C408.2.5.2 [F11]†	Furnished O&M instructions for systems and equipment to the building owner or designated representative.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
C405.4.1 [F18]†	Interior installed lamp and fixture lighting power is consistent with what is shown on the approved lighting plans, demonstrating proposed watts are less than or equal to allowed watts.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	See the Interior Lighting fixture schedule for values.
C408.1.1 [F15]†	Building operations and maintenance documents will be provided to the owner. Documents will cover manufacturers' information, specifications, programming procedures and means of illustrating to owner how building, equipment and systems are intended to be installed, maintained, and operated.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
C408.2.5.1 [F16]†	Furnished as-built drawings for electric power systems within 90 days of system acceptance.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
C408.3 [F13]†	Lighting systems have been tested to ensure proper calibration, adjustment, programming, and operation.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.

**Additional Comments/Assumptions:**

1 | High Impact (Tier 1) | 2 | Medium Impact (Tier 2) | 3 | Low Impact (Tier 3)  
 Project Title: Adult Daycare Report date: 03/20/25  
 Data filename: Page 6 of 6

Section # & Req.ID	Rough-In Electrical Inspection	Complies?	Comments/Assumptions
C405.2.2, C405.2.2.1 [EL22]†	Spaces required to have light-reduction controls have a manual control that allows the occupant to reduce the connected lighting load in a reasonably uniform illumination pattern >= 50 percent.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
C405.2.1, C405.2.1.1 [EL18]†	Occupancy sensors installed in classrooms/lecture/training rooms, conference/meeting/multipurpose rooms, copy/print rooms, lounges/breakrooms, enclosed offices, open plan office areas, restrooms, storage rooms, locker rooms, warehouse storage areas, and other spaces <= 300 sqft that are enclosed by floor-to-ceiling height partitions. Reference section language C405.2.1.2 for control function in warehouses and section C405.2.1.3 for open plan office spaces.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
C405.2.1, C405.2.1.1 [EL19]†	Occupancy sensors control function in warehouses: In warehouses, the lighting in aislesways and open areas is controlled with occupant sensors that automatically reduce lighting power by 50% or more when the areas are unoccupied. The occupant sensors control lighting in each aisleway independently and do not control lighting beyond the aisleway being controlled by the sensor.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
C405.2.1, C405.2.1.1 [EL20]†	Occupant sensor control function in open plan office areas: Occupant sensor controls in open office spaces >= 300 sq.ft. have controls 1) configured so that general lighting can be controlled separately in control zones with floor areas <= 600 sq.ft. within the space, 2) automatically turn off general lighting in all control zones within 20 minutes after all occupants have left the space, 3) are configured so that general lighting power in each control zone is reduced by >= 80% of the full zone general lighting power within 20 minutes of all occupants leaving that control zone, and 4) are configured such that any daylight-responsive control will activate space general lighting or control zone general lighting only when occupancy for the same area is detected.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
C405.2.2, C405.2.2.1, C405.2.2.2 [EL21]†	Each area not served by occupancy sensors (per C405.2.1) have time-switch controls and functions detailed in sections C405.2.2.1 and C405.2.2.2.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.

1 | High Impact (Tier 1) | 2 | Medium Impact (Tier 2) | 3 | Low Impact (Tier 3)  
 Project Title: Adult Daycare Report date: 03/20/25  
 Data filename: Page 4 of 6

ENCORE MEMORY CARE DAY CENTER  
 LEWISVILLE, TX

bldd  
 ARCHITECTURE



**CONTRACTOR NOTE**

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PE-SERVICES  
 F-10841  
 EXP. 09/30/25

ENERGY CODE COMPLIANCE  
 SUBMITTAL DATE: 03/23/22  
 SHEET NUMBER: E801  
 ISSUED FOR PERMIT

ENCORE MEMORY CARE DAY CENTER  
LEWISVILLE, TX

bldc  
ARCHITECTURE



PE SERVICES  
F-10841  
EXP. 09/30/25  
SUBMITTAL DATE: 02/24/25  
SHEET NUMBER: E901  
ISSUED FOR PERMIT

CONTRACTOR NOTE  
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8. WIRE AND CABLE  
A. PROVIDE WIRE AND CABLE COMPLETE WITH ACCESSORIES. SIZE REFERENCE SHALL BE AWG EXCEPT AS NOTED.  
B. CONDUCTORS SHALL BE COPPER, ASTM STANDARD SOLID (NO. 10 AND SMALLER) OR STRANDED (NO. 8 AND LARGER). GENERAL USE CABLING SHALL BE NO. 12 MINIMUM AT 120 VOLTS AND OVER 100' CIRCUIT LENGTH PROVIDE NO. 10 MINIMUM AT 265 VOLTS AND OVER 200' CIRCUIT LENGTH PROVIDE NO. 10 MINIMUM. CONTROL AND ALARM CABLING, EXCEPT AS NOTED, SHALL BE NO. 14 MINIMUM AT 120 VOLTS AND OVER 200' CIRCUIT LENGTH PROVIDE NO. 8 MINIMUM. OTHER VOLTAGES AND PHASES ADJUST CABLE SIZING AS REQUIRED TO MAINTAIN VOLTAGE DROP. INCREASE RACEWAY SIZES FOR LARGER WIRE AS REQUIRED.  
C. INSULATION SHALL BE RUBBER AND THERMOPLASTIC MEETING ASTM AND IPCA STANDARDS. TYPE THW OR THHN SHALL BE UTILIZED FOR FEEDERS AND BRANCH CIRCUITS EXCEPT AS NOTED. TYPE SFF-2 SHALL BE UTILIZED FOR BRANCH CIRCUITS LOCATED IN WIRING CHANNELS OF CONTINUOUS FLUORESCENT LUMINAIRES AND IN AMBIENT TEMPERATURES OVER 90 DEG C. FOR UNGROUNDED ISOLATED BRANCH CIRCUITS PROVIDE CROSS-LINKED POLYETHYLENE INSULATION (TYPE XHHW).  
D. COLOR CODING SHALL BE AS FOLLOWS: 1) 120/208 VOLT SYSTEM: BLACK FOR A PHASE, RED FOR B PHASE, BLUE FOR C PHASE 2) NEUTRAL WIRE SHALL UTILIZE WHITE OUTER COVERING THROUGHOUT. EQUIPMENT GROUND WIRE SHALL UTILIZE GREEN OUTER COVERING THROUGHOUT. WHERE COLOR-CODED CABLE IS NOT AVAILABLE, CERTIFY IN WRITING AND REQUEST PERMISSION TO OVERLAP CONDUCTORS WITH 9" OF COLOR TAPING IN ACCESSIBLE LOCATIONS.  
E. PROVIDE FLAMEPROOF LINEN OR FIBER TAGS IN ACCESSIBLE LOCATIONS. FOR FEEDERS INDICATE FEEDER NUMBER, SIZE, PHASE AND POINTS OF ORIGIN AND TERMINATIONS. FOR CONTROL AND ALARM WIRING INDICATE TYPE (CONTROL OR ALARM), SIZE OF WIRE, AND POINTS OF ORIGIN AND TERMINATIONS.  
F. TERMINATIONS, SPLICES AND TAPS UNDER 600 VOLTS: COPPER CONDUCTORS NO. 10 AND SMALLER SHALL UTILIZE COMPRESSION TYPE OF TWIST-ON SPRING-LOADED CONNECTORS AND CLEAR NYLON-INSULATED COVERING. COPPER CONDUCTORS NO. 8 AND LARGER SHALL UTILIZE MECHANICAL BOLTED PRESSURE OR HYDRAULIC COMPRESSION TYPE USING MANUFACTURER'S RECOMMENDED TOOLING. CABLE LUGS AND CONNECTORS SHALL UTILIZE COMPRESSION TYPE OF SAME METAL AS CONDUCTOR. PROVIDE TO MATCH CABLE, WITH MARKING INDICATING SIZE AND TYPE. COPPER LUGS CONNECTIONS TO BUS BARS: USE ANTISEIZE COMPOUND ON TANG.  
G. NOT MORE THAN 3 LIGHTING OR CONVENIENCE OUTLET CIRCUITS SHALL BE INSTALLED IN ONE CONDUIT UNLESS OTHERWISE INDICATED. PULL NO THERMOPLASTIC WIRES AT TEMPERATURES LOWER THAN 32 DEG F. PROVIDE SEPARATE RACEWAYS FOR CONDUCTORS OF 120/208 AND 265/480 VOLT SYSTEMS, EXCEPT 480 VOLT MOTOR BRANCH CIRCUIT WIRING AND RELATED 120 VOLT CONTROL WIRING. THERMOPLASTIC WIRES SHALL NOT BE INSTALLED IN COMPUTER AREA RAISED FLOORS.  
H. LEAVE WIRES WITH SUFFICIENT SLACK TO PERMIT MAKING FINAL CONNECTIONS.  
I. PERFORM CONTINUITY AND INSULATION TESTS. MEGGER TEST 100 PERCENT OF FEEDERS, 10 PERCENT OF BRANCH CIRCUITS AND ALL MOTOR BRANCH CIRCUITS OVER 25 HP. PERFORM TESTS PRIOR TO CONNECTING EQUIPMENT AND IN PRESENCE OF AUTHORIZED REPRESENTATIVES. SUBMIT WRITTEN REPORT OF RESULTS. CORRECT OR REPLACE CABLE TESTING BELOW MANUFACTURER'S STANDARDS.  
9. DEVICES  
A. PROVIDE COMPLETE MATERIAL AND ACCESSORIES AS PER BUILDING STANDARDS.  
B. LOCAL WALL SWITCHES SHALL BE SPECIFICATION GRADE, TOGGLE, QUIET TYPE, RATED 20 AMP, 120/277 VOLT, AC, LEVITON MODEL SIMILAR TO HUBBELL NOS. 1221 (SINGLE POLE), 1222 (DOUBLE POLE), 1223 (3-WAY) AND 1224 (4-WAY).  
C. INSERTION RECEPTACLES SHALL BE SPECIFICATION GRADE DUPLEX CONVENIENCE 125 VOLTS, 2 POLE, 3 WIRE, U-GROUND SLOT, GROUNDED, EXCEPT AS NOTED. MEETING NEMA STANDARDS, PUBLICATION WD-1-9511 LEVITON MODEL SIMILAR TO HUBBELL NOS. 5382 (20 AMP) AND 5382 (15 AMP), 1) SINGLE, EXCEPT AS NOTED, a 20 AMP STRAIGHT BLADE, SIMILAR TO HUBBELL NO. 5381 b, 125 VOLT, 2 POLE, 3 WIRE, GROUNDED, 2) SPECIAL USE: NONINTERCHANGEABLE TYPES AND RATINGS, 3) GROUNDWALL INTERRUPTER RECEPTACLES: a FEED-THRU TYPE, LEVITON MODEL SIMILAR TO HUBBELL NOS. GF5382 (20 AMP) AND GF5382 (15 AMP).  
D. MOMENTARY CONTACT SWITCHES FOR REMOTE CONTROL, SWITCHES, LEVITON MODEL SIMILAR TO HUBBELL NO. 4354.  
E. PILOT LIGHTS: NEON LAMP, LEVITON MODEL SIMILAR TO HUBBELL NO. T1375, WITH 125 VOLT LAMP.  
F. DEVICE PLATES: SEE ARCHITECT FOR TYPE. FOR RECEPTACLES WITH OTHER THAN 120 VOLT, INSCRIBED VOLTAGE AVAILABLE.  
G. COLORS: COORDINATE COLORS WITH ARCHITECT.  
H. MOUNTING ORIENTATION OF RECEPTACLES (VERTICAL); COORDINATE WITH ARCHITECT.  
I. FLUSH FLOOR MOUNTED POKE THROUGH OUTLET POKE THROUGH FLOOR FITTING WITH 2 HOUR FIRE RATING, MOUNTS 4" DIAMETER HOLE, PAINTABLE, DIE CAST ALUMINUM CARPET FLANGE. PROVIDE MODIFIED LEXAN SLIDE HOLDER TO SUPPORT A QUAD ELECTRICAL OUTLET, COMPLETE WITH ALL NECESSARY HARDWARE FOR COMPLETE INSTALLATION, SIMILAR TO WIREMOLD PART NO. RC-4.  
10. LUMINAIRES  
A. PROVIDE LUMINAIRE, COMPONENTS AND LAMPS. LUMINAIRE SHALL BE COMPLETELY FACTORY ASSEMBLED, WIRED AND EQUIPPED WITH ALL NECESSARY SOCKETS, DRIVERS, SUPPORTING HARDWARE AND ACCESSORIES. REFER TO ARCHITECTURAL DRAWINGS FOR INDIVIDUAL LUMINAIRE DESCRIPTIONS.  
B. LUMINAIRE CATALOG NUMBERS USED TO ILLUSTRATE EQUIPMENT TYPE DO NOT NECESSARILY DENOTE REQUIRED MOUNTING EQUIPMENT OR ACCESSORIES. PROVIDE ACCESSORIES TO SUIT.  
11. TELEPHONE AND SECURITY CONDUIT SYSTEM  
A. PROVIDE COMPLETE SYSTEM OF: EMPTY CONDUIT, PULL BOXES, OUTLETS, SLEEVES AND FISHWIRES.  
B. OUTLETS SHALL BE: 1) WALL: 4" SQUARE WITH BUSHED COVER PLATE, 2) FLOOR: CAST IRON WITH LOW TENSION FITTING.  
C. PROVIDE FISHWIRES, IN RACEWAYS OVER 10' LONG.  
D. CONDUIT SHALL BE 3/4" MINIMUM. PROVIDE EMPTY CONDUIT FROM OUTLET TO NEAREST ACCESSIBLE HUNG CEILING.

7. RACEWAYS  
A. PROVIDE RACEWAYS COMPLETE WITH BOXES, FITTINGS AND ACCESSORIES. CONDUIT OR TUBING SIZES REFERRED TO IN SPECIFICATIONS AND ON DRAWINGS ARE NOMINAL DIAMETERS.  
B. MATERIALS: 1) RACEWAYS: a RIGID STEEL CONDUIT: FULL-WEIGHT PIPE, GALVANIZED, THREADED, b. ELECTROMETALLIC TUBING (EMT), THIN WALL PIPE: GALVANIZED, THREADED, c. FLEXIBLE STEEL CONDUIT: CONTINUOUS SINGLE STRIP, GALVANIZED, d. WIREWAYS: WIRE SHALL BE AS NOTED, MINIMUM NO. 16 GAUGE STEEL WITH GROUND CONTINUITY. FINISH SHALL BE BAKED ENAMEL. COVERS SHALL BE SCREW-ON A SURFACE METAL RACEWAY. SIZES AS NOTED. BASE 1/4" IN. COVER 1/4" IN. MATERIAL SHALL BE STEEL. FINISH SHALL BE BAKED ENAMEL. COVERS SHALL BE SCREW-ON, 2) FITTINGS AND ACCESSORIES: a RIGID STEEL: NON-SPLIT, THREADED, STEEL OR MALLEABLE IRON, ZINC DIE CAST NOT PERMITTED, b. ELECTROMETALLIC TUBING: COMPRESSION TYPE, GALVANIZED RIGID STEEL ELBOWS, 2" OR LARGER, c. FLEXIBLE METALLIC CONDUIT: ANGLE WEDGE TYPE WITH INSULATED THROAT, d. BUSINGS: METALLIC INSULATED TYPE, 3) BOXES: a OUTLET BOXES: EXCEPT AS OTHERWISE REQUIRED BY CONSTRUCTION, DEVICES OR WIRING, BOXES SHALL BE STAMPED STEEL, #4 SQUARE OR OCTAGON FOR LUMINAIRE, BOXES ABOVE CEILING SHALL BE 1/2" DEEP, BOXES IN CEILING OR SLAB SHALL BE 3" DEEP, BOXES IN WALL FOR LUMINAIRE SHALL BE 2 3/4" DEEP, BOXES IN WALL FOR RECEPTACLES AND SWITCHES SHALL BE 1 1/2" DEEP. FURNISH WITH RAISED COVERS AND LUMINAIRE STUDS WHERE REQUIRED, WITHOUT LUMINAIRE OR DEVICE. FURNISH BLANK COVER, OFFSET BACK-TO-BACK OUTLETS WITH MINIMUM 6" SEPARATION, b. JUNCTION AND PULL BOXES: GALVANIZED SHEET STEEL WITH SCREW-ON COVERS, EXCEPT AS NOTED. FURNISH WITH INSULATED SUPPORTS FOR CABLES. LOCATIONS SHALL BE AS NOTED OR REQUIRED AND ACCESSIBLE. FLOOR BOXES SHALL BE SUITABLE FOR CONDUIT AND DEVICES NOTED. RAISED OUTLETS SHALL BE HUBBELL #8244 SERIES WITH ABOVE FLOOR FITTING, TELEPHONE, BUSHED HOLE, POWER, DUPLEX RECEPTACLE OR OTHERS AS NOTED. INCREASE SIZE TO SUIT AS NECESSARY. FLUSH OUTLETS SHALL BE HUBBELL #8244 SERIES WITH FLUSH FLOOR FITTING FOR TELEPHONE AND FLUSH DUAL FLAP COVER WITH DUPLEX RECEPTACLE FOR POWER AS NOTED. INCREASE SIZE TO SUIT AS NECESSARY.  
C. PROVIDE RACEWAYS ONLY AS HEREN SPECIFIED. EXCEPT AS NOTED, RACEWAYS SHALL BE RUN CONCEALED, EXCEPT AS NOTED. PROVIDE RACEWAY SUPPORT UTILIZING CEILING TRAPPEZ, STRAP HANGERS, OR WALL BRACKETS. SECURE ALL RACEWAYS TO SUPPORTS WITH FIRE STRIPS OR BOLTS. SPACING OF BOLTS SHALL BE A MINIMUM OF 10" ON CENTER FOR METALLIC RACEWAY AND AS REQUIRED FOR NONMETALLIC RACEWAY. SPACING SHALL BE 5" ON CENTER FOR WIREWAYS AND PER CODE AND AS NOTED FOR OTHERS. MOUNT SUPPORTS TO STRUCTURE MASONRY WITH TOGGLE BOLTS ON HOLLOW MASONRY, EXPANSION SHELDS OR INSERTS IN CONCRETE AND BRICK. MACHINE SCREWS ON METAL, BEAM CLAMPS ON FRAMEWORK, WOOD SCREWS ON WOOD, AND PAN THROUGH STRIPS IN METAL DECK, NAILS, NAIL PLUGS OR WOOD PLUGS SHALL NOT BE PERMITTED, WHERE REQUIRED BY STRUCTURE. FURNISH THROUGH BOLTS AND FISHPATES. EXPOSED RACEWAYS SHALL BE RUN PARALLEL WITH OR AT RIGHT ANGLES TO WALLS. PROVIDE CLEARANCE WITH WATER, STEAM OR OTHER PIPING (MINIMUM 3 IN. SEPARATION FROM STEAM AND HOT WATER PIPES), EXCEPT 1" FROM PIPE COVER AT CROSSINGS AND 18" FOR PARALLEL RUNS. FOR HUNG CEILING OUTLETS, RUN IN HUNG CEILING AND CONNECT TO CEILING SUPPORT CHANNELS. IN MASONRY AND POURED CONCRETE, RUN VERTICALLY ONLY. MAINTAIN GROUNDED CONTINUITY OF INTERRUPTED METALLIC RACEWAYS WITH GROUND CONDUCTOR, AND IN FLEXIBLE CONDUIT FOR FEEDERS AND MOTOR TERMINAL CONNECTIONS. EMPTY RACEWAYS OVER 10' LONG: PROVIDE FISH OR PULL WIRE, GALVANIZED OR NYLON RIGID STEEL CONDUIT SHALL BE PERMITTED FOR FEEDERS AND BRANCH CIRCUITS. EACH MALE THREADS OF FIELD-THREADED CONDUIT WITH GRAPHITE-BASE PIPE COMPOUND AND BUTT CONDUIT ENDS. TOUCH UP MARGED SURFACES AND FIELD-CUT THREADS. CR-COOL GALVANIZED, EMT SHALL BE PERMITTED FOR BRANCH CIRCUITS ONLY. IN DRY LOCATIONS, DRY WALLS, HUNG CEILINGS, HOLLOW BLOCK WALLS AND FURRED SPACES, EMT SHALL NOT BE PERMITTED IN RAISED FLOORS. FLEXIBLE STEEL CONDUIT SHALL BE UTILIZED FOR SHORT CONNECTIONS WHERE RIGID CONDUIT IS IMPRACTICAL. FROM OUTLET BOX TO RECESSED LIGHTING LUMINAIRE: PROVIDE MINIMUM 4" AND MAXIMUM 6" LENGTHS; FOR FINAL CONNECTION TO MOTOR TERMINAL BOX, TRANSFORMER AND OTHER VIBRATING EQUIPMENT: PROVIDE WITH POLYVINYL SHEATHING AND GROUND CONDUCTOR. MINIMUM LENGTH: 18" WITH SLACK. CONNECT GROUND CONDUCTOR TO ENCLOSURE OR RACEWAY AT EACH END. FOR EXPANSION JOINT CROSSINGS, CROSS AT RIGHT ANGLES AND ANCHOR ENDS. CUT CONDUIT ENDS SQUARE. REAM SMOOTH. PAINT MALE THREADS OF FIELD THREADED CONDUIT WITH GRAPHITE-BASE PIPE COMPOUND. DRAW UP TIGHT WITH RACEWAY EQUIPING. EXPANSION FITTINGS SHALL BE INSTALLED AT RIGHT ANGLES WITH CLIP JUNT CENTERED IN EXPANSION JOINT. PROVIDE A LENGTH OF RUN IN ACCORDANCE MANUFACTURER'S RECOMMENDATIONS. PRESET FITTINGS SHALL ALLOW FOR TEMPERATURE VARIATION. RACEWAYS PASSING THROUGH FIRE-RATED CONSTRUCTION: SEAL OPENING WITH FIRE SEALANT.  
D. ERECT WALL AND SWITCH OUTLETS IN ADVANCE OF FURNISHING AND FIREPROOFING. OUTLET BOXES SHALL BE SET SQUARE AND TRUE WITH BUILDING FINISH. SECURE TO BUILDING STRUCTURE BY ADJUSTABLE STRAP IRON OR GROUT IN WITH MASONRY. VERIFY OUTLET LOCATIONS IN FINISHED SPACES WITH ARCHITECTURAL DRAWINGS OF INTERIOR DETAILS AND FINISHES. PROVIDE BARRIERS BETWEEN SWITCHES CONNECTED TO DIFFERENT PHASES FOR VOLTAGE EXCEEDING 150 VOLTS TO GROUND.  
E. PANEL, JUNCTION AND PULL BOXES SHALL BE LOCATED CLEAR OF OTHER TRADES' CONCRETE, JUNCTION AND PULL BOXES IN FINISHED SPACES WHERE NECESSARY, RESORT TO RACEWAYS OR MAKE OTHER ARRANGEMENTS FOR CONCEALMENT. BOXES SHALL BE ACCESSIBLE. SUPPORT BOXES FROM BUILDING STRUCTURE, INDEPENDENT OF CONDUIT. PROVIDE FLOOR TO-CEILING CHANNELS FOR MOUNTING ON DRYWALL AND LIGHTWEIGHT CONSTRUCTION. OUTLET BOXES FOR LUMINAIRE RECESSED IN HUNG CEILINGS SHALL BE ACCESSIBLE THROUGH OPENING CREATED BY REMOVAL OF LUMINAIRE. SECURE TO BLACK IRON SUPPORT MOTOR TERMINAL BOXES. COORDINATE WITH MOTOR BRANCH CIRCUIT CONDUIT AND WIRING; ADD BOX VOLUME WHERE REQUIRED.  
F. FIRE SEALANTS: PROVIDE FOR RACEWAYS AND WIRE PASSING THROUGH FLOOR SLOTS, SLEEVES OR OPENINGS IN FIRE-PARTITIONS ROOMS.  
G. PERFORM CONTINUITY TESTS OF RESISTANCE OF FEEDER CONDUITS FROM SERVICE TO POINT OF FINAL DISTRIBUTION USING 1 CONDUCTOR RETURN. MAXIMUM RESISTANCE SHALL BE 25 OHMS.  
H. METAL-CLAD CABLE (TYPE MC) WITH GROUND WIRE MUST COMPLY WITH NEMA WCT01CEA 5-96-688. MC CABLE IS ACCEPTABLE FOR BRANCH CIRCUITS THAT ARE CONCEALED WITHIN CEILINGS, WALL PARTITIONS, OR FLOORS. INSTALL EXPOSED CABLES PARALLEL AND PERPENDICULAR TO SURFACES OF EXPOSED STRUCTURAL MEMBERS AND FOLLOW SURFACE CONTOURS WHERE POSSIBLE.

6. LOW-VOLTAGE DISTRIBUTION EQUIPMENT  
A. PROVIDE COMPLETE EQUIPMENT INCLUDING: SWITCHES, FUSES, CIRCUIT BREAKERS, PANELS AND TRANSFORMERS.  
B. ALL EQUIPMENT SHALL CONFORM TO NEMA, ANSI, IEEE STANDARDS AND BUILDING STANDARDS.  
C. DISCONNECT SWITCHES SHALL BE FUSED OR NONFUSED AS NOTED AND HORSEPOWER RATED FOR MOTOR LOADS. TOGGLE TYPE SWITCHES SHALL BE NONFUSED, LOAD BREAK, HAVING MAXIMUM RATINGS OF 20 AMP AT 600 VOLTS AND 30 AMP AT 240 VOLTS. TWO-POLE SWITCHES SHALL BE LEVITON MODEL SIMILAR TO HART AND HEGEMAN NO. 7810F. KNIFE BLADE TYPE SWITCHES SHALL BE LOAD BREAK, QUICK-MAKE-QUICK-BREAK, UL CLASS R UP TO 600 AMP MAXIMUM RATING EXCEPT AS NOTED DEAD FRONT, NEMA TYPE 1, EXCEPT AS NOTED.  
D. FUSES: 1) CIRCUIT 601 TO 6000 AMPERES SHALL BE PROTECTED BY FUSES SIMILAR TO CURRENT LIMITING BUSSMANN LOW-PEAK TIME-DELAY FUSES KR-C (AMP/SP, CLASS I) LISTED BY UL WITH AN INTERRUPTING RATING OF 300,000 AMPERES RMS SYMMETRICAL, 2) CIRCUITS 0 TO 600 AMPERES SHALL BE PROTECTED BY FUSES SIMILAR TO CURRENT LIMITING BUSSMANN LOW-PEAK DUAL-ELEMENT TIME-DELAY LFN-RK (AMP/SP (250V)) LPS-RK (AMP/SP (600V)) OR LP-J (AMP/SP (600V)) (UL CLASS RK1 OR CLASS J), AND BE LISTED BY UL WITH AN INTERRUPTING RATING OF 300,000 AMPERES RMS SYMMETRICAL, 3) MOTOR CIRCUITS: ALL INDIVIDUAL MOTOR CIRCUITS WITH FULL LOAD AMPERE RATINGS (FLA) OF 480 AMPERES OR LESS SHALL BE PROTECTED BY FUSES SIMILAR TO CURRENT LIMITING BUSSMANN LOW-PEAK DUAL-ELEMENT TIME-DELAY LFN-RK (AMP/SP (250V)) LPS-RK (AMP/SP (600V)) OR LP-J (AMP/SP (600V)) (UL CLASS RK1 OR CLASS J), AND BE LISTED BY UL WITH AN INTERRUPTING RATING OF 300,000 AMPERES RMS SYMMETRICAL, 4) ALL FUSES SHALL BE PROVIDED BY SAME MANUFACTURER, 5) PROVIDE 1 SPARE MATCHING FUSE FOR EACH SET OF 3.  
E. CIRCUIT BREAKERS: MOLDED CASE BREAKERS SHALL BE THERMAL-MAGNETIC, QUICK-MAKE-QUICK-BREAK, BOLT-ON TYPE, MANUALLY OPERATED WITH INSULATED TRIP-FREE HANDLE. MULTI-POLE TYPE BREAKERS SHALL CONTAIN INTERNAL TRIP BAR. TERMINALS SHALL BE SUITABLE FOR COPPER OR ALUMINUM CABLE. FURNISH AUXILIARY DEVICES WHERE REQUIRED. ENCLOSURES SHALL BE DEAD-FRONT, NEMA TYPE 1, EXCEPT AS NOTED. FRAMES, IC AND INTERCHANGEABLE TRIPS SHALL BE AS FOLLOWS, UNLESS OTHERWISE NOTED: 1) 125 VOLTS, 100-AMP FRAME: 11.000 AMPS, 1" C, 2) 240 VOLTS, 100-AMP FRAME: 10,000 AMPS, 2 AND 3 POLES.  
F. DISTRIBUTION PANELS: SWITCHING UNITS SHALL BE 3 PHASE, 4 WIRE CIRCUIT-BREAKER TYPE UNLESS OTHERWISE NOTED ON PANEL SCHEDULES. BUS BARS SHALL BE HARD DRAWN COPPER, MINIMUM 96 PERCENT CONDUCTIVITY, SILVER OR TIN-PLATED JOINTS. CABINETS SHALL BE WELDED CORNERS. HARDWARE SHALL BE CHROME-PLATED WITH FLUSH LOCK/TATCH HANDLE ASSEMBLY UP TO 48 IN. HIGH DOORS; OR WALT HANDLE, LOCK AND 3-POINT CATCH LARGER THAN 48 IN. HIGH DOORS. HINGES SHALL BE SEMI-CONCEALED, SKNICKLE STEEL WITH NONFERROUS PINS, 180-DEG OPENING, LOCATED A MAXIMUM 26 IN. ON CENTERS. MINIMUM GUTTER SPACES FOR LIGHTING PANELS SHALL BE 5-3/4 IN. SIDES, PLASTIC, TRANSPARENT COVER. A TYPEWRITTEN LIST INDICATING FEEDER CABLE AND CONDUIT SIZE, CIRCUIT NUMBERS, OUTLETS SUPPLIED AND THEIR LOCATIONS SHALL BE PROVIDED.  
G. BALANCE THE LOAD OVER PHASES WHEN NEW CIRCUITS ARE ADDED TO PANELS. PROVIDE MULTI-CABLE LUGS WHERE REQUIRED. DOUBLE LUGGING SHALL NOT BE PERMITTED. MOUNTING HEIGHT SHALL BE A MAXIMUM OF 6 FT 6 IN. FROM FLOOR TO TOP SWITCH UNIT. UPDATE DIRECTORIES ON EXISTING PANELBOARDS WHERE CIRCUITING IS CHANGED.  
H. TESTS: OPEN AND CLOSE LOAD BREAK SWITCHING DEVICES UNDER LOAD.

5. GENERAL PROVISIONS FOR ELECTRICAL WORK  
A. SPECIFICATIONS ARE OF SIMPLIFIED FORM AND INCLUDE INCOMPLETE SENTENCES. WORDS OR PHRASES SUCH AS "THE CONTRACTOR SHALL," SHALL BE: "FURNISH," "PROVIDE," "TA," "THE," AND "ALL" HAVE BEEN OMITTED FOR BREVITY.  
B. DEFINITIONS: 1) "PROVIDE": TO SUPPLY, INSTALL AND CONNECT UP COMPLETE AND READY FOR SAFE AND REGULAR OPERATION THE PARTICULAR WORK REFERRED TO UNLESS SPECIFICALLY OTHERWISE NOTED, 2) "INSTALL": TO ERECT, MOUNT AND CONNECT THE PARTICULAR WORK WITH RELATED ACCESSORIES, 3) "FURNISH" OR "SUPPLY": TO PURCHASE, PROCURE, ACQUIRE AND DELIVER COMPLETE WITH RELATED ACCESSORIES, 4) "WORK": LABOR, MATERIALS, EQUIPMENT, APPARATUS, CONTROLS, ACCESSORIES AND OTHER ITEMS REQUIRED FOR PROPER AND COMPLETE INSTALLATION, 5) "WIRING": RACEWAY, FITTINGS, WIRE, BOXES AND RELATED ITEMS, 6) "CONCEALED": EMBEDDED IN MASONRY OR OTHER CONSTRUCTION, INSTALLED IN FURRED SPACES, WITHIN DOUBLE PARTITIONS OR HUNG CEILINGS, IN TRENCHES, IN CRAWL SPACES, OR IN ENCLOSURES, 7) "EXPOSED": NOT INSTALLED UNDERGROUND OR "CONCEALED" AS DEFINED ABOVE, 8) "SIMILAR" OR "EQUAL": EQUAL IN MATERIALS, WEIGHT, SIZE, DESIGN AND EFFICIENCY OF SPECIFIED PRODUCT.  
C. TEMPORARY LIGHT AND POWER: PROVIDE TEMPORARY LIGHT AND POWER SYSTEMS AT EARLIEST POSSIBLE DATE WITHIN THE CONSTRUCTION AREA FOR THE REQUIREMENTS OF ALL TRADES AS HEREN DESCRIBED. EXTEND SYSTEMS TO NEW CONSTRUCTION AS SOON AS PHYSICALLY POSSIBLE. MAINTAIN SYSTEM DURING WORKING HOURS OF ALL TRADES. COST OF ENERGY WILL BE PAID FOR BY OWNER. PROVIDE ALL REQUIRED MAINTENANCE, INCLUDING LAMPS AND SOCKETS.  
D. QUALITY ASSURANCE: 1) QUALITY AND GAUGE OF MATERIALS: NEW, BEST OF THEIR RESPECTIVE KINDS, FREE FROM DEFECTS AND LISTED BY UNDERWRITERS LABORATORIES, INC. OR OTHER NATIONALLY APPROVED TESTING AGENCY AND BEARING THEIR LABEL, MATERIALS AND EQUIPMENT OF SIMILAR APPLICATION SHALL BE OF SAME MANUFACTURER, EXCEPT AS NOTED, 2) GUARANTEE: ALL MATERIALS AND WORKMANSHIP SHALL BE GUARANTEED AS DEFINED IN PARAGRAPH 2.C, 3) CURRENT CHARACTERISTICS: a. SERVICE: 120/208 VOLT, 3 PHASE, 4 WIRE, 50 HERTZ WITH GROUNDED NEUTRAL, b. DISTRIBUTION: 120/208 VOLT, 3 PHASE, 4 WIRE, 60 HERTZ WITH GROUNDED NEUTRAL, c. HEIGHTS OF OUTLETS (UNLESS OTHERWISE SPECIFIED BY ARCHITECT): a. FROM FINISHED FLOOR TO CENTERLINE OF OUTLETS FOR: RECEPTACLES AND TELEPHONES: 1'-6" - WALL SWITCHES: 5'-2" - WALL LUMINAIRE: 7'-0" - MOTOR CONTROLLERS: 5'-0" - STROBE LIGHTS: 6'-8" OR 8" BELOW CEILING (WHICHEVER IS LOWER) - FIRE ALARM PULL STATIONS: 4'-0" b. EXCEPTIONS: AT JUNCTION OF DIFFERENT WALL FINISH MATERIALS, ON MOLDS OR BREAK IN WALL SURFACE, IN VIOLATION OF CODE, OR AS NOTED OR DIRECTED.  
E. PRODUCT DELIVERY, STORAGE AND HANDLING: 1) MOVING OF EQUIPMENT: WHERE NECESSARY, SHIP IN CARTED SECTIONS OF SIZE TO PERMIT PASSING THROUGH AVAILABLE SPACES, 2) ACCESSIBILITY: FOR OPERATION, MAINTENANCE AND REPAIR, MINOR DEFECTS SHALL BE PERMITTED. CHANGES OF MAGNITUDE OR INVOLVING EXTRA COST ARE NOT PERMISSIBLE WITHOUT REVIEW. GROUP CONCEALED ELECTRICAL EQUIPMENT REQUIRING ACCESS WITH EQUIPMENT FREELY ACCESSIBLE THROUGH ACCESS DOORS.  
F. MATERIALS: 1) NAMEPLATES: PROVIDE BLACK LAMICOID SHEET WITH 3/4" WHITE LETTERING, FASTENED WITH EPOXY CEMENT FOR EACH DISCONNECT SWITCH, CIRCUIT BREAKER, PANEL, CABINET, TRANSFORMER, ENCLOSURE, MOTOR CONTROLLER AND THE LIKE. NAMEPLATES SHALL DESCRIBE THE NAME AND NUMBER OF EACH COMPONENT, 2) CABLE TAGS: TAG EACH CONDUCTOR PASSING THROUGH SPICE OR PULLBOX WITH A WHITE LINEN TAG, INDICATING POINT OF ORIGIN AND TERMINATION OF THE CIRCUIT, 3) INSERTS AND SUPPORTS: a. INSERTS: STEEL, SLOTTED TYPE, FACTORY PAINTED, SINGLE ROD, SIMILAR TO GRINNELL FIG. 281 - MULTIROD, SIMILAR TO FEE AND MASON SERIES 3000 WITH END CAPS AND CLOSURE STRIPS - CLIP FORM NAILS FLUSH WITH INSERTS - MAXIMUM LOADING 75 PERCENT OF RATING, b. SUPPORTS FROM BUILDING CONSTRUCTION: INSERTS, BEAM CLAMPS, STEEL FISHPATES IN CONCRETE FILL ONLY, CANTILEVER BRACKETS OR OTHER MEANS. SUBMIT FOR REVIEW, c. GROUPED LINES AND SERVICES: TRAPEZOID HANGERS OF BOLTED ANGLES OR CHANNELS, d. WHERE BUILDING CONSTRUCTION IS INADEQUATE: PROVIDE ADDITIONAL FRAMING. SUBMIT FOR REVIEW.  
G. GRANT SHALL BE THE BEST GRADE FOR ITS PURPOSE. DELIVER IN ORIGINAL SEALED CONTAINERS AND APPLY IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS. COLORS SHALL BE AS SELECTED BY ARCHITECT OR ENGINEER. UTILIZE GALVANIZED IRON PRIMER ON PANEL AND PULL BOXES. AFTER FABRICATION, UTILIZE HOT DIPPED GALVANIZED OR DIPPED IN ZINC BASED PRIMER FOR OUTLET BOXES, JUNCTION BOXES, CONDUIT HANGERS, RODS, INSERTS AND SUPPORTS. ZINC BASED PRIMER OF STEEL EQUIPMENT AND RACEWAYS. A FIELD-APPLIED ZINC BASED PRIMER COAT SHALL BE UTILIZED FOR STEEL, OR IRONWORK.  
H. BRUSH AND CLEAN WORK PRIOR TO CONVEALING, PAINTING AND ACCEPTANCE. PAINTED EXPOSED WORK SOILED OR DAMAGED; CLEAN AND REPAIR TO MATCH ADJOINING WORK BEFORE FINAL ACCEPTANCE. REMOVE DEBRIS FROM INSIDE AND OUTSIDE OF MATERIAL AND EQUIPMENT.  
I. FINAL LOCATIONS AND MOUNTING ORIENTATIONS OF ALL SWITCHES, RECEPTACLES AND LIGHT LUMINAIRE SHALL BE VERIFIED WITH ARCHITECT.  
J. ALL ACCESS DOOR LOCATIONS SHALL BE REVIEWED BY ARCHITECT PRIOR TO INSTALLATION.

4. AS-BUILT DRAWINGS AND EQUIPMENT OPERATIONAL INSTRUCTIONS  
A. UPON COMPLETION AND ACCEPTANCE OF WORK, CONTRACTOR SHALL FURNISH WRITTEN INSTRUCTIONS AND EQUIPMENT MANUALS AND DEMONSTRATE TO THE OWNER THE PROPER OPERATION AND MAINTENANCE OF ALL EQUIPMENT AND APPARATUS FURNISHED UNDER THIS CONTRACT.  
B. THESE INSTRUCTIONS SHALL BE TYPED ON 8-1/2 IN. X 11 IN. PAPER AND BOUND IN THREE RING BINDERS WITH CLEAR ACETATE COVERS. CONTRACTOR SHALL GIVE THREE COPIES OF THE INSTRUCTIONS TO THE OWNER AND ONE COPY TO THE ENGINEER.  
C. THE INSTRUCTION BOOKLET SHALL BEAR THE NAME, ADDRESS AND TELEPHONE NUMBER OF THE PROJECT, ARCHITECT AND ENGINEER.  
D. REPRODUCIBLE "AS-BUILT" DRAWINGS SHALL BE PROVIDED INDICATING THE AS INSTALLED CONDITIONS OF THE WORK. "AS-BUILT" DRAWINGS SHALL BE PROVIDED TO THE ARCHITECT AFTER COMPLETION OF THE INSTALLATION.

3. SHOP DRAWINGS  
A. PRIOR TO THE INSTALLATION OF ANY WORK AND PROCUREMENT OF EQUIPMENT, CONTRACTOR SHALL PROVIDE COMPLETE SETS OF COORDINATED SHOP DRAWINGS OF ALL EQUIPMENT, INDICATING CAPACITY, DIMENSIONS AND SEQUENCE OF OPERATION FOR WRITTEN APPROVAL BY THE ARCHITECT, ENGINEER, AND OWNER.  
B. INDICATE ON EACH SHOP DRAWINGS SUBMITTED: 1) PROJECT NAME AND LOCATION, 2) NAME OF ARCHITECT AND ENGINEER, 3) ITEM IDENTIFICATION, 4) APPROVAL STAMP OF PRIME CONTRACTOR.  
C. SUBMISSIONS: 1) SUBMISSIONS 11 IN. X 17 IN. OR SMALLER: IF THE SUBMISSION IS A CATALOG CUT, THEN THE CONTRACTOR SHALL SUBMIT ONE ORIGINAL AND TWO COPIES. OTHERWISE, HE SHALL SUBMIT THREE COPIES. THE ARCHITECT WILL FORWARD THE ORIGINAL AND ONE COPY (TWO COPIES WHEN NO ORIGINAL IS RECEIVED) TO THE ENGINEER. ALL CATALOG CUTS SHALL BE COMPLETE, 2) SUBMISSIONS LARGER THAN 11 IN. X 17 IN.: SUBMIT TWO PRINTS AND ONE PAPER SEPA TO THE ARCHITECT. THE ARCHITECT WILL FORWARD ONE PRINT AND THE PAPER SEPA TO THE ENGINEER.  
D. SUBMIT SHOP DRAWINGS FOR THE FOLLOWING: 1) SWITCHES, 2) FUSES, 3) CIRCUIT BREAKERS, 4) PANELBOARDS (INCLUDING DIMENSIONS, SCHEDULES, AND CATALOG CUTS), 5) RACEWAYS, 6) WIRE AND CABLE, 7) WALL SWITCHES, 8) INSERTION RECEPTACLES, 9) MOMENTARY CONTACT SWITCHES, 10) TIME SWITCHES, 10) SURFACE METAL RACEWAY, 10) LIGHTING LUMINAIRE, 10) TRANSFORMERS.

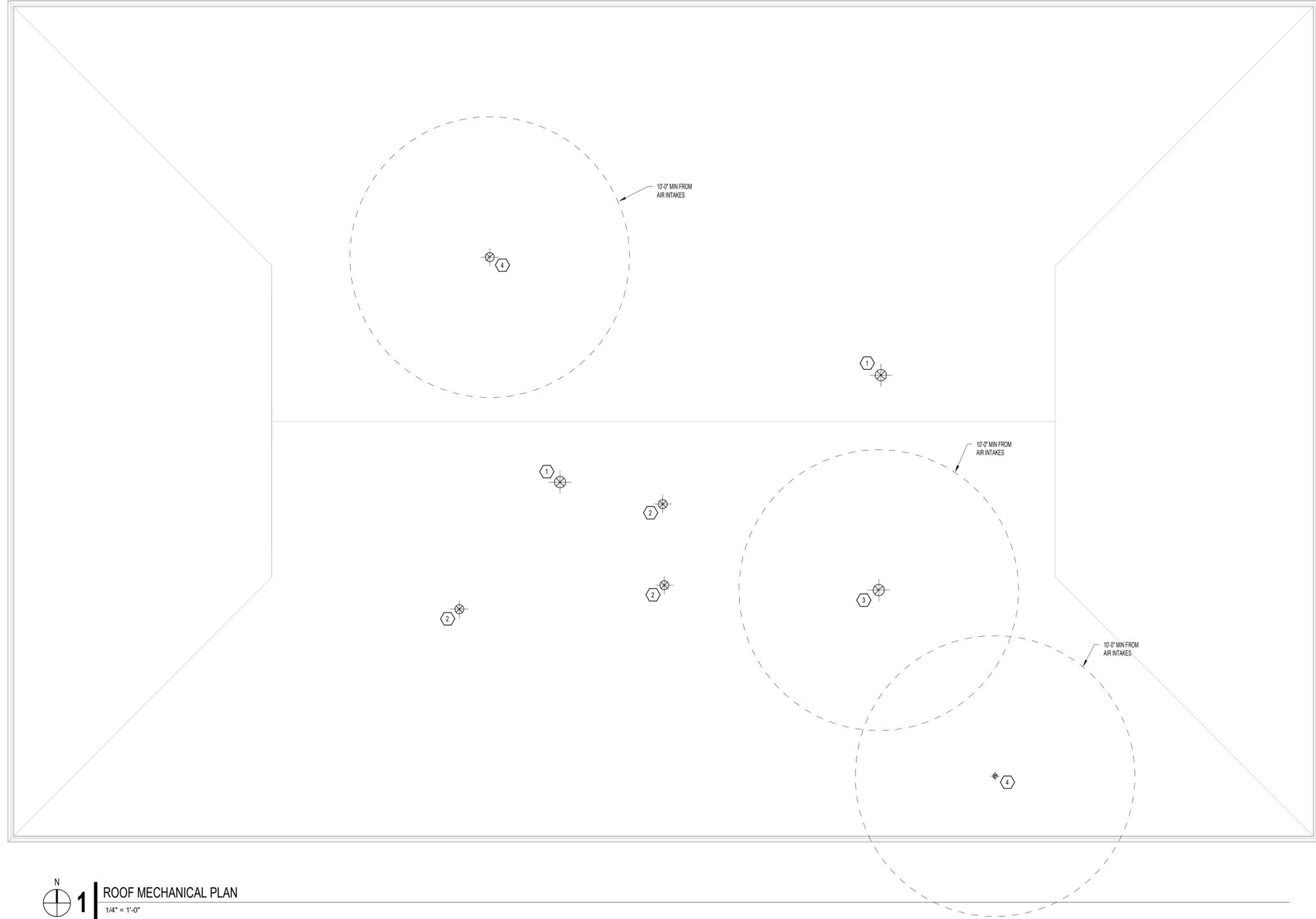
2. SCOPE OF WORK  
A. SCOPE OF WORK SHALL CONSIST OF PROVIDING LABOR, MATERIALS, EQUIPMENT, SERVICES AND FEES NECESSARY FOR COMPLETE AND SAFE INSTALLATION IN CONFORMITY WITH THE NATIONAL ELECTRICAL CODE (NEC) AND ALL OTHER APPLICABLE INDUSTRY, NATIONAL AND LOCAL CODES AND AUTHORITIES HAVING JURISDICTION, AS INDICATED ON DRAWINGS AND HEREIN SPECIFIED.  
B. ALL DRAWINGS, PLANS, DETAILS, SPECIFICATIONS AND SPECIFICATION ADDENDA ARE MADE PART OF THIS CONTRACT AND SHALL APPLY TO ALL WORK UNDER THE CONTRACT UNLESS OTHERWISE AMENDED, MODIFIED, SUPPLEMENTED OR SPECIFIED HEREIN.  
C. THE CONTRACTOR SHALL FURNISH A WRITTEN GUARANTEE TO REPLACE OR REPAIR PROMPTLY AND ASSUME RESPONSIBILITY FOR ALL EXPENSES INCURRED FOR ANY WORKMANSHIP AND EQUIPMENT IN WHICH DEFECTS DEVELOP WITHIN ONE YEAR FROM THE DATE OF FINAL CERTIFICATE FOR PAYMENT AND/OR FROM DATE OF ACTUAL USE OF EQUIPMENT OR OCCUPANCY OF SPACES BY OWNER INCLUDED UNDER THE VARIOUS PARTS OF THE WORK, WHICHEVER DATE IS EARLIER. THIS WORK SHALL BE DONE AS DIRECTED BY THE OWNER. THIS GUARANTEE SHALL ALSO PROVIDE THAT WHERE DEFECTS OCCUR, THE CONTRACTOR WILL ASSUME RESPONSIBILITY FOR ALL EXPENSES INCURRED IN REPAIRING AND REPLACING WORK OF OTHER TRADES AFFECTED BY DEFECTS, REPAIRS OR REPLACEMENTS IN EQUIPMENT SUPPLIED BY THE CONTRACTOR.  
D. THE CONTRACTOR SHALL GIVE NECESSARY NOTICE, FILE DRAWINGS AND SPECIFICATIONS WITH ALL DEPARTMENTS HAVING JURISDICTION, OBTAIN PERMITS OR LICENSES NECESSARY TO CARRY OUT THIS WORK AND PAY ALL FEES THEREFOR. THE CONTRACTOR SHALL ARRANGE FOR INSPECTIONS AND TESTS OF ANY CRITICAL PARTS OF THE WORK IF SO REQUIRED BY AUTHORITIES AND PAY ALL CHARGES FOR SAME. THE CONTRACTOR SHALL PAY ALL COSTS FOR, AND FURNISH TO THE OWNER BEFORE FINAL BILLING, ALL CERTIFICATIONS NECESSARY AS EVIDENCE THAT THE WORK INSTALLED CONFORMS WITH ALL REGULATIONS WHERE THEY APPLY TO THIS WORK.

1. GENERAL  
A. THE GENERAL CONDITIONS OF THE CONTRACT FOR CONSTRUCTION, "AIA DOCUMENT A201, LATEST EDITION, AND THESE SPECIFICATIONS AS APPLICABLE ARE PART OF THIS CONTRACT.  
B. ALL APPLICABLE CODES, LAWS AND REGULATIONS GOVERNING OR RELATING TO ANY PORTION OF THIS WORK ARE HEREBY INCORPORATED INTO AND MADE A PART OF THESE SPECIFICATIONS, AND THEIR PROVISIONS SHALL BE CARRIED OUT BY THE CONTRACTOR WHO SHALL INFORM THE OWNER, PRIOR TO SUBMITTING A PROPOSAL, OF ANY WORK OR MATERIAL WHICH VIOLATES ANY OF THE ABOVE LAWS AND REGULATIONS. ANY WORK DONE BY THE CONTRACTOR CAUSING SUCH VIOLATION SHALL BE CORRECTED BY THE CONTRACTOR.  
C. INVESTIGATE EACH SPACE THROUGH WHICH EQUIPMENT MUST BE MOVED, WHERE NECESSARY. EQUIPMENT SHALL BE SHIPPED FROM MANUFACTURER IN SECTIONS OF SIZE SUITABLE FOR MOVING THROUGH AVAILABLE RESTRICTIVE SPACES. ASCERTAIN FROM BUILDING OWNER AND TENANT AT WHAT TIMES OF DAY EQUIPMENT MAY BE MOVED THROUGH ALL AREAS.  
D. DRAWINGS ARE DIAGRAMMATIC AND INDICATE GENERAL ARRANGEMENT OF SYSTEMS AND WORK. CONDUIT ROUTING IS SHOWN DIAGRAMMATICALLY AND DOES NOT SHOW ALL OFFSETS, DROPS AND RISES OF RUNS. THE CONTRACTOR SHALL ALLOW IN HIS PRICE FOR ROUTING OF CONDUIT TO AVOID OBSTRUCTIONS.  
E. INSTALL WORK SO AS TO BE READILY ACCESSIBLE FOR OPERATION, MAINTENANCE AND REPAIR. MINOR DEVIATIONS FROM DRAWINGS MAY BE MADE TO ACCOMPLISH THIS, BUT CHANGES WHICH INVOLVE EXTRA COST SHALL NOT BE MADE WITHOUT APPROVAL.  
F. THE CONTRACTOR SHALL KEEP ALL EQUIPMENT AND MATERIALS, AND ALL PARTS OF THE BUILDING, EXTERIOR SPACES AND ADJACENT STREETS, SIDEWALKS AND PARKWAYS, FREE FROM MATERIAL AND DEBRIS RESULTING FROM THE EXECUTION OF THIS WORK. EXCESS MATERIALS WILL NOT BE PERMITTED TO ACCUMULATE EITHER ON THE INTERIOR OR THE EXTERIOR.  
G. SEAL OPENINGS THROUGH PARTITIONS, WALLS AND FLOORS WITH MINERAL WOOL, OR OTHER NONCOMBUSTIBLE MATERIAL.  
H. PROVIDE ALL NECESSARY FLASHING AND COUNTERFLASHING TO MAINTAIN THE WATERPROOFING INTEGRITY OF THE BUILDING AS REQUIRED BY THE INSTALLATION OR REMOVAL OF CONDUIT AND EQUIPMENT. PROVIDE EQUIPMENT CURBS AS REQUIRED.  
I. THE CONTRACTOR'S PROPOSAL FOR ALL WORK SHALL BE PREDICATED ON THE PERFORMANCE OF THE WORK DURING REGULAR WORKING HOURS, WHEN SO DIRECTED. HOWEVER, THE CONTRACTOR SHALL INSTALL WORK DURING OVERTIME HOURS AND THE ADDITIONAL COST TO BE CHARGED THEREFOR SHALL BE ONLY THE "PREMIUM" PORTION OF THE WAGES PAID.  
J. ALL MATERIAL AND EQUIPMENT SHALL BE NEW UNLESS OTHERWISE NOTED AND SHALL BE IN ACCORDANCE WITH BUILDING STANDARDS.  
K. INSURANCE: IN ACCORDANCE WITH BUILDING REQUIREMENTS AND SHALL INCLUDE A HOLD HARMLESS CLAUSE FOR OWNER AND ENGINEER.  
L. THE FINAL ACCEPTANCE SHALL BE MADE AFTER THE CONTRACTOR HAS ADJUSTED HIS EQUIPMENT, TESTED THE VARIOUS SYSTEMS, DEMONSTRATED THAT IT FULFILLS THE REQUIREMENTS OF THE DRAWINGS AND SPECIFICATIONS AND HAS FURNISHED ALL THE REQUIRED CERTIFICATES OF INSPECTION AND APPROVAL.





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PLAN NOTES:

1. 10"0 OUTSIDE AIR DUCT DOWN TO MECHANICAL UNIT.
2. 8"0 OUTSIDE AIR DUCT DOWN TO MECHANICAL UNIT.
3. 10"0 COMBINED EXHAUST DUCT UP FROM BELOW. PROVIDE BIRDSCREEN AND BACKDRAFT DAMPER.
4. 10"0 COMBINED EXHAUST DUCT UP FROM BELOW. PROVIDE BIRDSCREEN AND BACKDRAFT DAMPER.
5. DRYER EXHAUST DUCT UP THROUGH ROOF. REFER TO DETAIL.



1 ROOF MECHANICAL PLAN

1/4" = 1'-0"

CONTRACTOR NOTE

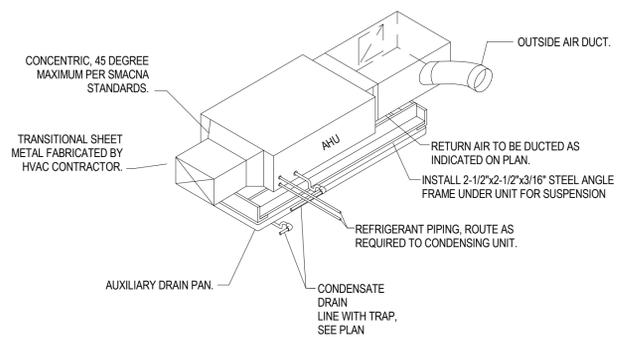
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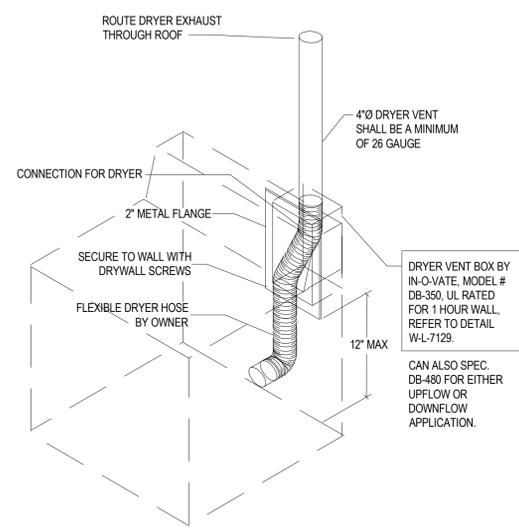


ROOF MECHANICAL PLAN	SHEET NUMBER:
ISSUED FOR PERMIT	M102
03/20/2025	

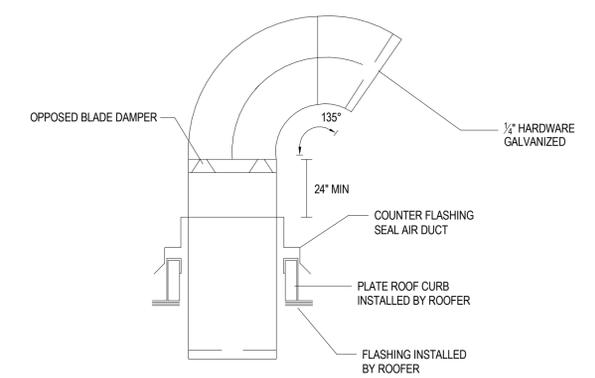
ENCORE MEMORY CARE DAY CENTER  
LEWISVILLE, TX



TYPICAL HORIZONTAL AIR HANDLER | 6  
NTS | M501

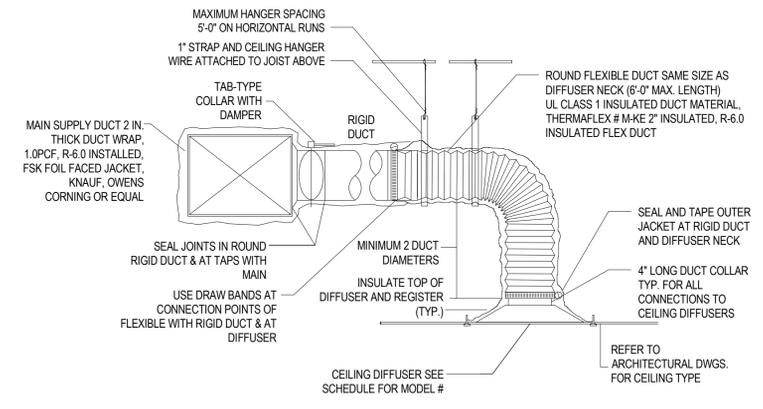


DRYER VENT DROP BOX DETAIL | 5  
NTS | M501

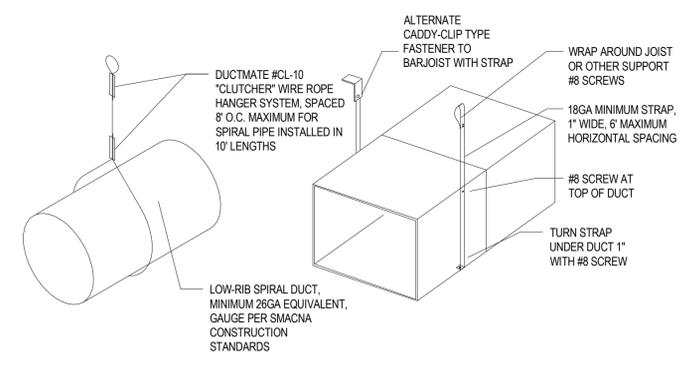


MECHANICAL CONTRACTOR SHALL LOCATE ROOF CURB OPENING FOR ROOFER. ROOFER SHALL OPEN ROOFING AND DECK AS REQUIRED TO INSTALL CURB. ROOFER SHALL INSTALL CURB AND FLASHING. MECHANICAL CONTRACTOR SHALL PROVIDE DUCT AND COUNTER FLASHING. ROOFER SHALL WARRANTY ROOFING WORK.

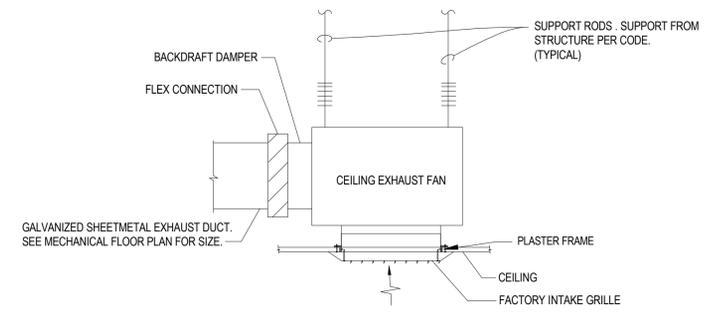
GOOSENECK DETAIL | 4  
NTS | M501



BRANCH DUCT TAKE-OFF DETAIL | 3  
NTS | M501



RIGID DUCT MOUNTING DETAIL | 2  
NTS | M501



CEILING EXHAUST FAN DETAIL | 1  
NTS | M501

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CONTRACTOR NOTE  
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MECHANICAL DETAILS	
SUBMITTAL DATE: 03/20/2025	SHEET NUMBER: M501
ISSUED FOR PERMIT	

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FANS										
DESIGNATION	SERVES	CONTROL	CFM	ESP (IN WG)	DRIVE TYPE	MOTOR WATTS (HP)	GREENHECK MODEL NUMBER	ACCESSORIES	VOLT	Ø
EF-1	RESTROOM	LIGHT	70 CFM	0.35	DIRECT	80	SP-B110	1,2,3,4	120	1
EF-2	RESTROOM	LIGHT	70 CFM	0.35	DIRECT	80	SP-B110	1,2,3,4	120	1
EF-3	RESTROOM	LIGHT	70 CFM	0.35	DIRECT	80	SP-B110	1,2,3,4	120	1
EF-4	RESTROOM	LIGHT	70 CFM	0.35	DIRECT	80	SP-B110	1,2,3,4	120	1
EF-5	RESTROOM	LIGHT	70 CFM	0.35	DIRECT	80	SP-B110	1,2,3,4	120	1
EF-6	RESTROOM	LIGHT	70 CFM	0.35	DIRECT	80	SP-B110	1,2,3,4	120	1

NOTES:  
 A. ALL FANS TO HAVE OSHA GUARDS.  
 B. ALL EQUIPMENT SHALL BE INSTALLED SO AS TO MAINTAIN ALL CODE AND MANUFACTURER REQUIRED CLEARANCES FOR SERVICE, ACCESS, AND OPERATION.  
 C. REFER TO DETAILS AND SPECIFICATIONS FOR ADDITIONAL INFORMATION.  
 D. CONTROL TYPE:  
 LIGHT - INTERLOCK TO LIGHT IN SPACE SERVED.  
 ACCESSORIES:  
 1. GRAVITY BACKDRAFT DAMPER  
 2. GALVANIZED BRIDSCREEN  
 3. PRE-WIRED NON-FUSED SERVICE DISCONNECT.  
 4. SPEED CONTROLLER.

GRILLES - REGISTERS - DIFFUSERS						
DESIGNATION	DUTY	FRAME TYPE	MATERIAL	FINISH	FACE SIZE (IN)	MODEL NUMBER
CD-A	SUPPLY	CEILING	STEEL	WHITE	24x24	TITUS OMNI
CD-B	SUPPLY	CEILING	STEEL	WHITE	12x12	TITUS OMNI AA
RA-A	RETURN	CEILINGSIDEWALL	STEEL	WHITE	6x6	TITUS 350RL
RA-B	RETURN	CEILINGSIDEWALL	STEEL	WHITE	6x6	TITUS 350RL

AIR BALANCE SCHEDULE					
UNIT	SUPPLY AIR	RETURN AIR	OUTSIDE AIR	EXHAUST AIR	BALANCE
AHU-1E	2000	1650	350	0	350
AHU-2E	650	590	60	0	60
AHU-3E	1000	830	170	280	-110
AHU-4E	1000	840	160	140	20
AHU-5E	2000	1720	280	0	280
<b>TOTAL</b>	<b>6650</b>	<b>5630</b>	<b>1020</b>	<b>420</b>	<b>600</b>

IMC Table 403.3											
UNIT NO.	ROOM NO.	AREA S.F.	AREA SERVED	PERSONS PER 1000 S.F.	NO. OF PEOPLE	CFM PER PERSON	CFM PER S.F.	O.A. REQUIRED	S.A. PROVIDED	O.A. PROVIDED	NOTES
AHU-1(E)	24	785	ACTIVITY	20	16	5	0.12	173	1000	175	
	26	725	DINING	20	15	5	0.12	160	1000	175	
<b>TOTALS</b>					<b>30</b>			<b>332</b>	<b>2000</b>	<b>350</b>	<b>A</b>

NOTES:  
 A BALANCE UNIT OUTSIDE AIR TO 18%  
 B DISTRIBUTION EFFECTIVENESS 1.0  
 C SPACES COMMUNICATE

IMC Table 403.3											
UNIT NO.	ROOM NO.	AREA S.F.	AREA SERVED	PERSONS PER 1000 S.F.	NO. OF PEOPLE	CFM PER PERSON	CFM PER S.F.	O.A. REQUIRED	S.A. PROVIDED	O.A. PROVIDED	NOTES
AHU-2(E)	27	170	WARMING KITCHEN	20	3	7.5	0.18	56	650	60	
<b>TOTALS</b>					<b>3</b>			<b>56</b>	<b>650</b>	<b>60</b>	<b>A</b>

NOTES:  
 A BALANCE UNIT OUTSIDE AIR TO 9%  
 B DISTRIBUTION EFFECTIVENESS 1.0  
 C SPACES COMMUNICATE

IMC Table 403.3											
UNIT NO.	ROOM NO.	AREA S.F.	AREA SERVED	PERSONS PER 1000 S.F.	NO. OF PEOPLE	CFM PER PERSON	CFM PER S.F.	O.A. REQUIRED	S.A. PROVIDED	O.A. PROVIDED	NOTES
AHU-3(E)	01	70	LOBBY	10	1	5	0.06	8	100	17	
	02	90	RECEPTION	10	1	5	0.06	10	100	17	
	03	85	CONFERENCE	50	4	5	0.06	26	150	26	
	04	60	MED ROOM	5	0	5	0.06	5	75	13	
	06	45	RESTROOM	0	0	0	0.06	3	50	9	
	07	60	RESTROOM	0	0	0	0.06	4	50	9	
	08	45	RESTROOM	0	0	0	0.06	3	50	9	
	09	20	JANITOR	0	0	0	0.12	2	50	9	
	10	40	LAUNDRY	0	0	0	0.12	5	50	9	
	28	335	HALLWAY	0	0	0	0.06	20	325	55	
<b>TOTALS</b>					<b>6</b>			<b>85</b>	<b>1000</b>	<b>170</b>	<b>A</b>

NOTES:  
 A BALANCE UNIT OUTSIDE AIR TO 17%  
 B DISTRIBUTION EFFECTIVENESS 1.0  
 C SPACES COMMUNICATE

IMC Table 403.3											
UNIT NO.	ROOM NO.	AREA S.F.	AREA SERVED	PERSONS PER 1000 S.F.	NO. OF PEOPLE	CFM PER PERSON	CFM PER S.F.	O.A. REQUIRED	S.A. PROVIDED	O.A. PROVIDED	NOTES
AHU-4(E)	18	470	FAMILY ROOM	20	9	5	0.12	103	650	104	
	19	85	ROOM	5	0	5	0.06	7	125	20	
	21	55	RESTROOM	0	0	0	0.06	3	50	8	
	22	55	RESTROOM	0	0	0	0.06	3	50	8	
	23	80	ACTIVITY DIR. OFFICE	5	0	5	0.06	7	125	20	
<b>TOTALS</b>					<b>10</b>			<b>124</b>	<b>1000</b>	<b>160</b>	<b>A</b>

NOTES:  
 A BALANCE UNIT OUTSIDE AIR TO 16%  
 B DISTRIBUTION EFFECTIVENESS 1.0  
 C SPACES COMMUNICATE

IMC Table 403.3											
UNIT NO.	ROOM NO.	AREA S.F.	AREA SERVED	PERSONS PER 1000 S.F.	NO. OF PEOPLE	CFM PER PERSON	CFM PER S.F.	O.A. REQUIRED	S.A. PROVIDED	O.A. PROVIDED	NOTES
AHU-5(E)	11	95	ROOM	5	0	5	0.06	8	150	21	
	12	120	OFFICE	5	1	5	0.06	10	150	21	
	13	70	OFFICE	5	0	5	0.06	6	100	14	
	14	250	LIBRARY	10	3	5	0.12	43	400	56	
	16	725	MULTI PURPOSE	20	15	5	0.12	160	1200	168	
<b>TOTALS</b>					<b>18</b>			<b>226</b>	<b>2000</b>	<b>280</b>	<b>A</b>

NOTES:  
 A BALANCE UNIT OUTSIDE AIR TO 14%  
 B DISTRIBUTION EFFECTIVENESS 1.0  
 C SPACES COMMUNICATE



CONTRACTOR NOTE  
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ENCORE MEMORY CARE DAY CENTER  
 LEWISVILLE, TX



MECHANICAL SCHEDULES  
 SUBMITTAL DATE: 03/20/2025  
 SHEET NUMBER: M601  
 ISSUED FOR PERMIT

PLUMBING NOTATIONS			
140	140°F HOT WATER	HP	HORSE POWER
140R	140°F HOT WATER RETURN	HT	HEIGHT
AD	AREA DRAIN	INV	INVERT ELEVATION
AFF	ABOVE FINISH FLOOR	LAV	LAVATORY
AFG	ABOVE FINISHED GRADE	LF	LINEAR FOOT
BFP	BACKFLOW PREVENTER	MAX	MAXIMUM
BV	BALANCING VALVE	MC	MECHANICAL CONTRACTOR
BT	BATHTUB	MIN	MINIMUM
CO	CLEAN OUT	MS	MOP SINK
CS	CLINIC SINK	NTS	NOT TO SCALE
CWS	COMBINATION WATER SERVICE	OD	OVERFLOW DRAIN
DCW	DOMESTIC COLD WATER	PC	PLUMBING CONTRACTOR
DD	DECK DRAIN	RD	ROOF DRAIN
DDCV	DOUBLE DETECTOR CHECK VALVE	S	SINK
DF	DRINKING FOUNTAIN	SA	SHOCK ABSORBER
DHW	DOMESTIC HOT WATER	SAN	SANITARY
DHWR	DOMESTIC HOT WATER RETURN	SDL	SPRINKLER DRAIN LINE
DN	DOWN	SE	SEWAGE EJECTOR
DS	DOWNSPOUT	SF	SQUARE FOOT
DWH	DOMESTIC WATER HEATER	SH	SHOWER
EC	ELECTRICAL CONTRACTOR	SP	SUMP PUMP
ET	EXPANSION TANK	SS	SANITARY SEWER
EWC	ELECTRIC WATER COOLER	STM	STORM
EWH	ELECTRIC WATER HEATER	SUC	SITE UTILITY CONTRACTOR
FOO	FLOOR CLEANOUT	SW	SOFT WATER
FD	FLOOR DRAIN	TD	TRENCH DRAIN
FDC	FIRE DEPARTMENT CONNECTION	TMV	THERMOSTATIC MIXING VALVE
FDV	FIRE DEPARTMENT VALVE	TP	TRAP PRIMER
FOG	FATS / OILS / GREASE	TS	TAMPER SWITCH
FR	FIRE RISER	TYP	TYPICAL
FS	FLOW SWITCH	UF	UTILITY FIXTURE
FSC	FIRE SUPPRESSION CONTRACTOR	UG	UNDERGROUND
G	GAS (NATURAL)	UNO	UNLESS NOTED OTHERWISE
GC	GENERAL CONTRACTOR	UR	URINAL
GCO	GRADE CLEANOUT	V	VENT
GPM	GALLONS PER MINUTE	VR	VENT RISER
GRD	GRADE	VTR	VENT THROUGH ROOF
HB	HOSE BIBB	WC	WATER CLOSET
HC	HVAC CONTRACTOR	WCO	WALL CLEANOUT
HCO	HORIZONTAL CLEANOUT	WH	WALL HYDRANT
HD	HUB DRAIN		

PLUMBING SYMBOL LEGEND			
NOTES: 1. ALL SYMBOLS MAY NOT APPLY.			
	CODED PLAN NOTE		DETAIL # SHEET #
	EQUIPMENT DESIGNATION		REFERENCE TAG
	BACKFLOW PREVENTER		BALANCING VALVE
	BALL VALVE		BUTTERFLY VALVE
	CAP OFF EXISTING		CHECK VALVE
	CLEANOUT PLUG		DOUBLE DETECTOR CHECK VALVE
	DRY-PIPE VALVE		FIRE ALARM VALVE
	FIRE DEPARTMENT CONNECTION		FIRE PROTECTION CONCEALED SPRINKLER
	FIRE PROTECTION PENDANT SPRINKLER		FIRE PROTECTION SPRINKLER WITH GUARD
	FIRE PROTECTION UPRIGHT SPRINKLER		FLOOR CLEANOUT
	FLOOR DRAIN		FLOW SWITCH
	GAS COCK		GATE VALVE
	MIXING VALVE		PIPING DOWN
	PIPING OUT BOTTOM		PIPING OUT TOP
	PIPING RISE OR DROP		PIPING UP
	PLUG VALVE		POINT OF CONNECTION
	PRE-ACTION VALVE		PRESSURE REDUCING VALVE
	RECIRCULATION PUMP		ROOF / OVERFLOW DRAIN
	SOLENOID VALVE		STRAINER
	SUPERVISED GATE VALVE		TEST PLUG
	THERMOMETER		UNION
	UTILITY METER - GAS / WATER		WALL HYDRANT / HOSE BIBB

PLUMBING LINETYPE LEGEND	
	CW DOMESTIC COLD WATER
	CW DOMESTIC COLD WATER UNDERGROUND
	HW DOMESTIC HOT WATER
	HW DOMESTIC HOT WATER RETURN
	S SANITARY UNDERGROUND
	V VENT
	G GAS

GENERAL NOTES:

- THIS WORK SHALL BE EXECUTED IN STRICT CONFORMITY WITH THE LATEST EDITION OF THE PREVAILING STATE PLUMBING AND BUILDING CODES AND ALL LOCAL REGULATIONS THAT MAY APPLY. IN CASE OF CONFLICT BETWEEN THE CONTRACT DOCUMENTS AND A GOVERNING CODE OR ORDINANCE, THE MORE STRINGENT STANDARD SHALL APPLY.
- ALL PLUMBING FIXTURES SHALL BE SUPPLIED WITH INDIVIDUAL HEAVY DUTY SUPPLY STOPS AND CODE APPROVED P-TRAPS WITH CLEANOUTS. EXPOSED PIPING SHALL BE CHROME PLATED WITH CHROMED ESCUTCHEONS AT WALL PENETRATIONS.
- NO PIPING SHALL PASS DIRECTLY OVER ELECTRICAL POWER DISTRIBUTION CABINETS. CONTRACTOR SHALL COORDINATE PANEL LOCATIONS, PRIOR TO PIPING INSTALLATION.
- ALL FLOOR DRAIN AND HUB DRAIN TRAPS SHALL BE PROVIDED WITH TRAP PRIMERS OR TRAP GUARDS, PER LOCAL CODES.
- ALL HORIZONTAL VENT PIPING MAY NOT BE SHOWN ON THIS PLAN FOR THE SAKE OF CLARITY. REFER TO SANITARY ISOMETRIC FOR VENT PIPE ROUTING AND PROVIDE COMPLETE VENTING SYSTEM IN ACCORDANCE WITH CODE.
- ALL PLUMBING WORK SHALL BE COORDINATED WITH ALL OTHER TRADES, PRIOR TO CONSTRUCTION.
- ALL DOMESTIC WATER BRANCH LINES SHALL HAVE FULL PORT, TWO PIECE BALL TYPE, ISOLATION VALVES.
- PROVIDE WATER HAMMER ARRESTORS (WHA) AS REQUIRED, WITH QUICK CLOSING VALVES AND ON SYSTEMS WITH HIGHER THAN NORMAL PRESSURE, WHERE WATER HAMMER MAY BE AN ISSUE.
- INSTALL ALL FLOOR CLEANOUTS TO CLEAR EQUIPMENT AND PROVIDE REQUIRED ACCESSIBILITY FOR MAINTENANCE.
- VERIFY INVERT ELEVATIONS AND EXACT LOCATIONS OF ALL UNDERGROUND UTILITIES, PRIOR TO INSTALLING ANY UNDERGROUND PIPING. COORDINATE WITH SITE UTILITY CONTRACTOR.

PLUMBING SHEET INDEX	
Sheet Number	Sheet Name
P001	PLUMBING COVER SHEET
P011	SANITARY & VENT PLAN
P021	WATER PLAN
P031	PLUMBING DETAILS
P041	PLUMBING SCHEDULES
P051	PLUMBING ISOMETRICS

ENCORE MEMORY CARE DAY CENTER  
LEWISVILLE, TX

**blldc**  
ARCHITECTURE



CONTRACTOR NOTE

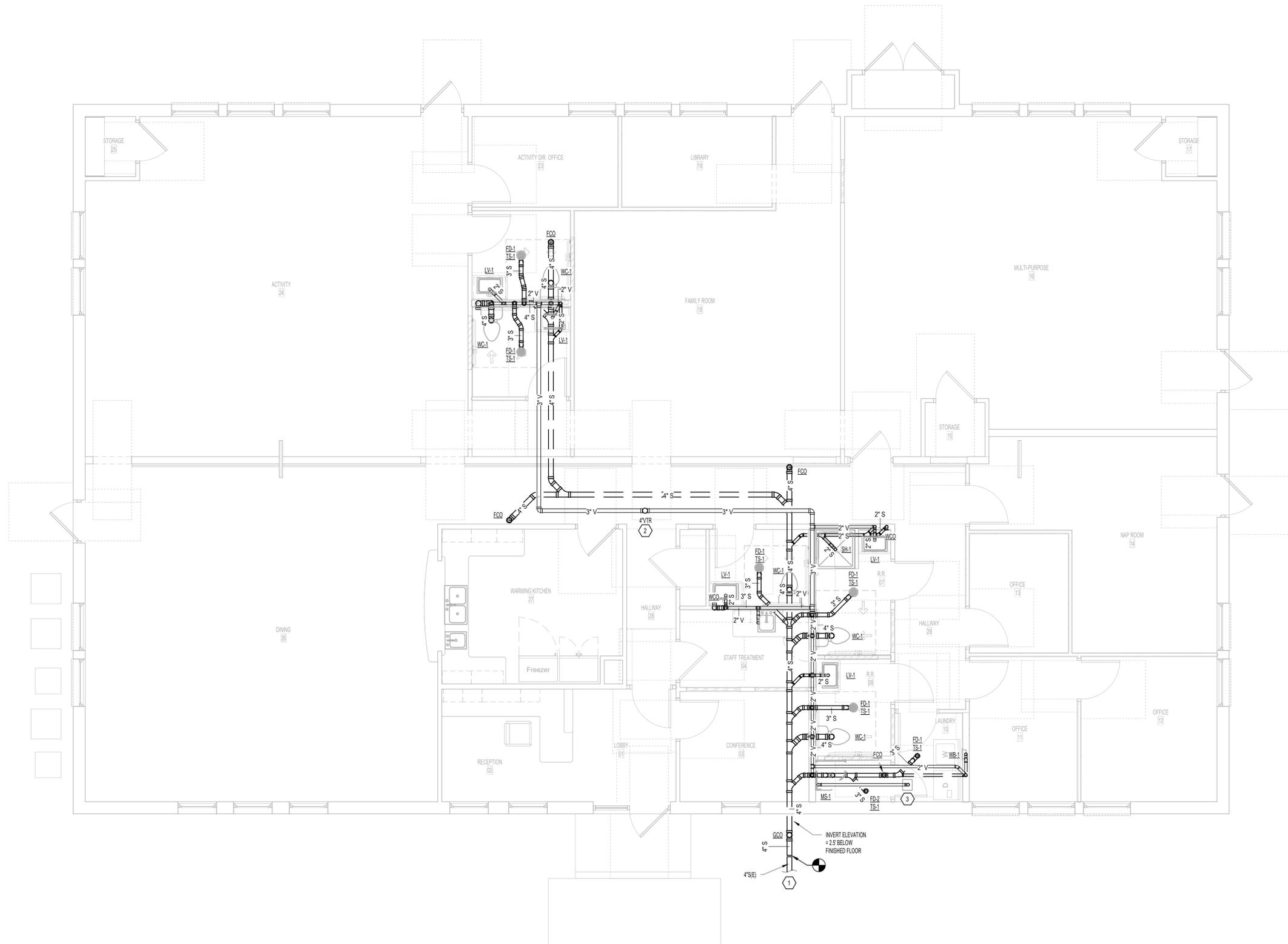
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PLUMBING COVER SHEET

SUBMITTAL DATE: 03/20/2025  
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SHEET NUMBER: P001

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**1** SANITARY & VENT PLAN  
 1/4" = 1'-0"

- PLAN NOTES:
- 4" SANITARY EXIT. CONTRACTOR TO FIELD VERIFY EXACT SIZE, LOCATION, INVERT ELEVATION, DIRECTION OF FLOW AND CONDITION OF EXISTING 4" SANITARY SERVICE.
  - CONNECT 3" VENT TO 4" VENT THROUGH ROOF. ENSURE VENT THROUGH ROOF IS A MINIMUM OF 10'-0" FROM AIR INTAKES.
  - ROUTE CONDENSATE DRAIN PIPING FROM EXISTING FLOOR SINK IN ATTIC TO MOP SINK IN NEW LOCATION.

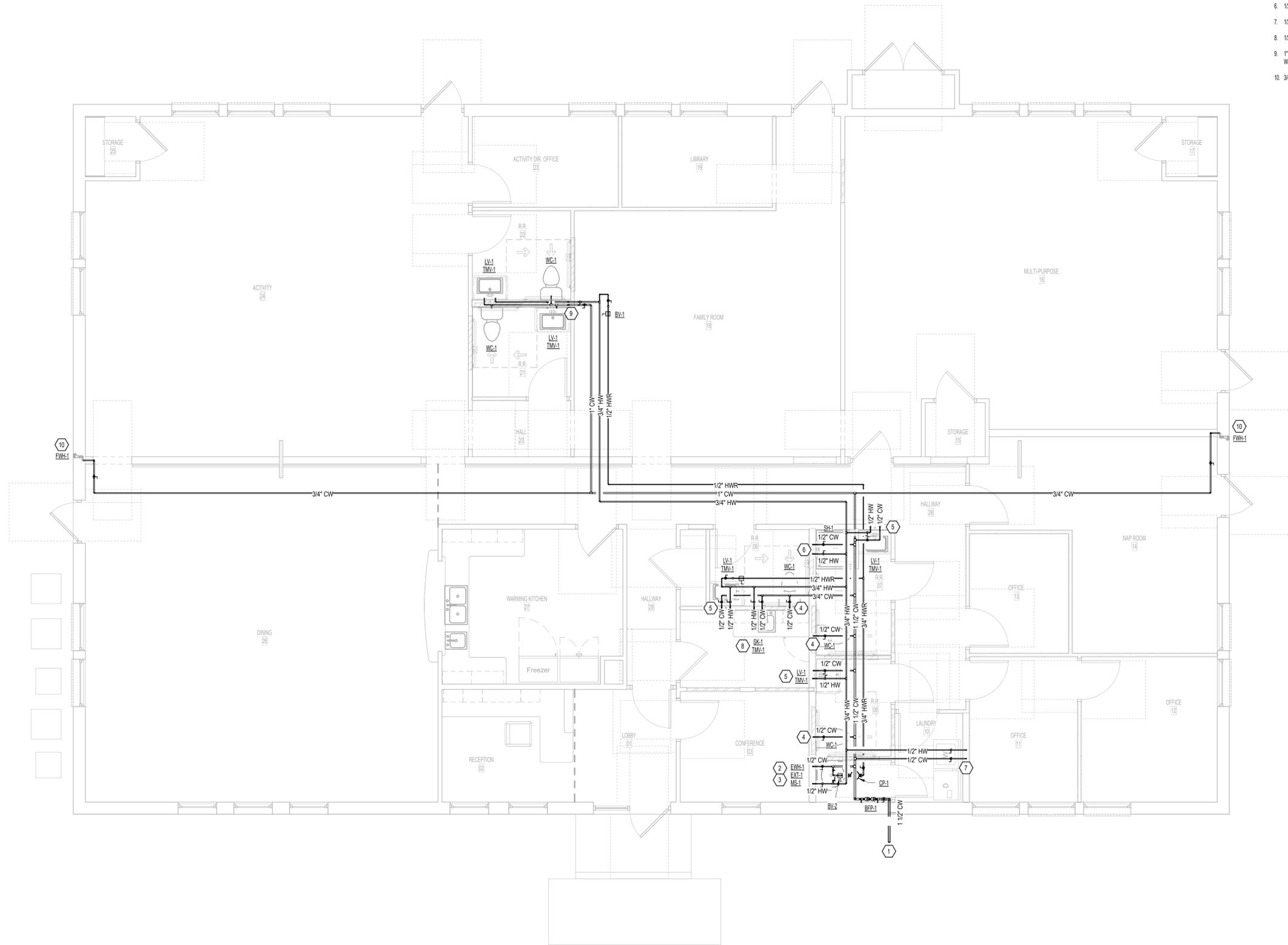
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SANITARY & VENT PLAN  
 SUBMITTAL DATE: 03/20/2025  
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**PLAN NOTES:**

1. 1-1/2" COLD WATER SERVICE. COORDINATE WITH LOCAL UTILITY FOR EXACT SIZE AND LOCATION OF WATER METER.
2. 3/4" COLD WATER TO WATER HEATER ABOVE MOP SINK. PROVIDE 3/4" HOT WATER SUPPLY PIPING TO PLUMBING FIXTURES. PROVIDE SHUTOFF VALVES AT WATER HEATER.
3. 1/2" COLD WATER AND 1/2" HOT WATER DOWN TO MOP SINK.
4. 1/2" COLD WATER DOWN TO WATER CLOSET.
5. 1/2" COLD WATER AND 1/2" HOT WATER DOWN TO LAVATORY.
6. 1/2" COLD WATER AND 1/2" HOT WATER DOWN TO SHOWER.
7. 1/2" COLD WATER AND 1/2" HOT WATER DOWN TO WASHER WALL BOX.
8. 1/2" COLD WATER AND 1/2" HOT WATER DOWN TO SINK.
9. 1" COLD WATER AND 3/4" HOT WATER DOWN IN WALL PROVIDE 1/2" COLD WATER TO EACH WATER CLOSET AND 1/2" COLD WATER AND 1/2" HOT WATER TO EACH LAVATORY.
10. 3/4" COLD WATER DOWN TO FREEZEPROOF WALL HYDRANT.

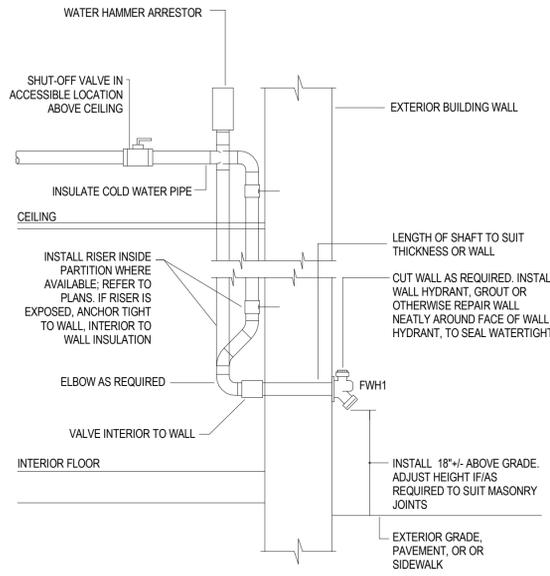
N  
 1 WATER PLAN  
 1/4" = 1'-0"

ENCORE MEMORY CARE DAY CENTER  
 LEWISVILLE, TX

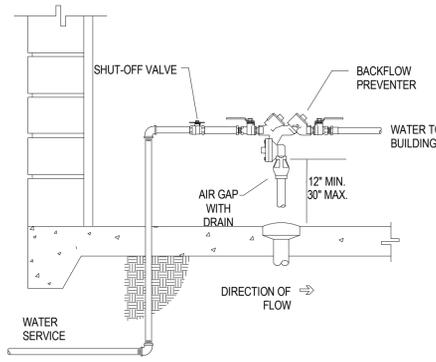


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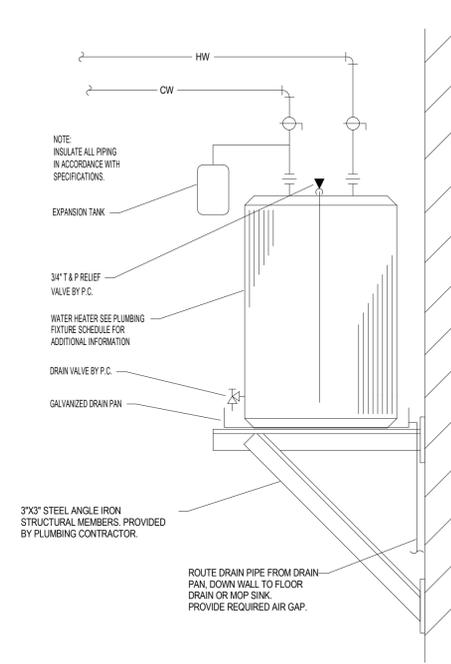
**WATER PLAN**  
 SUBMITTAL DATE: 03/20/2025  
 SHEET NUMBER: P201  
 ISSUED FOR PERMIT



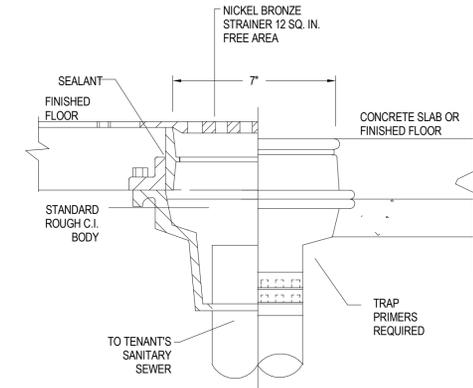
FREEZEPROOF WALL HYDRANT | 7  
NTS | P501



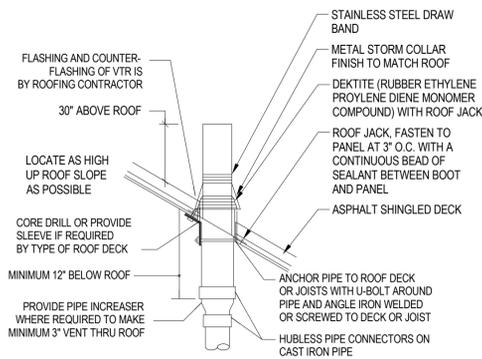
BACKFLOW PREVENTER DETAIL | 6  
NTS | P501



SHELF MOUNT ELECTRIC WATER HEATER DETAIL | 5  
NTS | P501

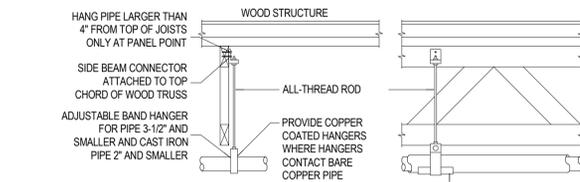
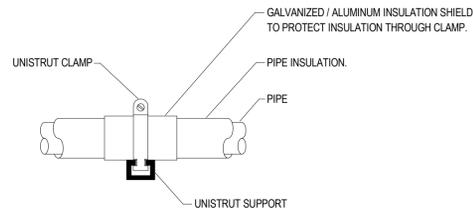


FLOOR DRAIN DETAIL | 4  
NTS | P501



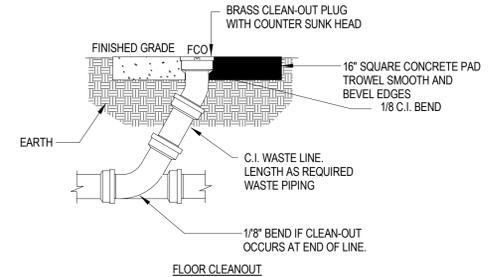
REFER TO PLANS FOR VTR PIPE SIZES AND LOCATIONS. LOCATE VTR MINIMUM THREE FEET FROM PROPERTY LINE, OR TEN FEET HORIZONTAL OR THREE FEET VERTICAL ABOVE ANY BUILDING OPENING OR FRESH AIR INTAKE, OR ONE FOOT FROM ANY VERTICAL SURFACE. LOCATE VTR MINIMUM 18" FROM PARAPET, EXPANSION JOINT, EQUIPMENT CURB, ETC. OFFSET IN CEILING SPACE WHERE REQUIRED TO MEET THESE CONDITIONS.

VENT THROUGH ROOF DETAIL | 3  
NTS | P501



PIPE SIZE	COPPER TUBING HANGER SPACING	C.P.C. PIPE/TUBING HANGER SPACING	P.V.C. PIPE HANGER SPACING	STEEL PIPE HANGER SPACING
1/2"	6'	3'	4'	12'
3/4"	6'	3'	4'	12'
1"	6'	3'	4'	12'
1-1/4"	6'	4'	4'	12'
1-1/2"	10'	4'	4'	12'
2"	10'	4'	4'	12'
2-1/2"	10'	4'	4'	12'
3"	10'	4'	4'	12'
4"	10'	4'	4'	12'

PIPE HANGERS DETAIL | 2  
NTS | P501



CLEANOUT DETAILS | 1  
NTS | P501

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PLUMBING DETAILS

SUBMITTAL DATE: 03/20/2025  
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CIRCULATING PUMP SCHEDULE															
TAG	FIXTURE	DESCRIPTION	PIPING CONNECTIONS		ELECTRICAL REQUIREMENTS		FLOW GPM	TDH FEET	PUMP RPM	LOCATION	REFERENCE PRODUCT	ACCEPTABLE EQUALS			
			DISCHARGE	SUCTION	AMPS	VOLT							PH	HZ	HP
CP-1	DOMESTIC HOT WATER CIRCULATING PUMP IN-LINE	BRONZE BODY, CERAMIC THRUST BEARINGS, PLASTIC IMPELLAR, STAINLESS STEEL ROTOR AND SHAFT, SELF-LUBRICATED GRAPHITE BEARINGS, EPDM DIAPHRAGM, 230 F MAX WATER TEMPERATURE, 140 PSI MAX WORKING PRESSURE	3/4"	3/4"	0.70	115	1	60	1/25	5	8	2800	JANITORS	ARMSTRONG ASTRO SERIES 308	ARMSTRONG TACO LITTLE GIANT

ELECTRIC WATER HEATER SCHEDULE														
TAG	FIXTURE	DESCRIPTION	PIPING CONNECTIONS			ELECTRICAL REQUIREMENTS			TANK CAPACITY GALLONS	RECOVERY CAPACITY (GPH)		LOCATION	REFERENCE PRODUCT	ACCEPTABLE EQUALS
			CW	HW	KW	VOLT	PH	HZ		GALLONS	TEMP			
EW-1	ELECTRIC WATER HEATER TANK TYPE COMMERCIAL	GLASS LINED TANK, FOAM INSULATED, ZINC PLATED COPPER SHEATHS WITH MEDIUM WATT DENSITY, DUAL HEATING ELEMENTS, SINGLE PHASE, ADJUSTABLE TEMPERATURE CONTROL, 110-170 DEG F, CABINET BONDERIZED UNDERCOAT WITH BAKED ENAMEL FINISH	3/4"	3/4"	4.5	240	1	60	50	20	90 DEG	JANITORS	AO SMITH DEL-50	BRADFORD-WHITE RHEEM STATE

BACKFLOW PREVENTER SCHEDULE										
TAG	FIXTURE	DESCRIPTION	PIPING CONNECTIONS			SERVICE FLOW (GPM)	PRESSURE LOSS (PSI)	DEVICE LOCATION	REFERENCE PRODUCT	ACCEPTABLE EQUALS
			IN	OUT	DRAIN					
BFP-1	REDUCED PRESSURE BACKFLOW PREVENTER	ASSE LISTED 1013, 304 STAINLESS STEEL MAIN BODY, TWO INDEPENDENTLY OPERATING SPRING LOADED CHECK VALVES, STAINLESS STEEL SPRINGS, DIAPHRAGM TYPE DIFFERENTIAL PRESSURE RELIEF VALVE, AIR GAP FITTING, SIZE RANGE - 1/4" - 2"	1-1/2"	1-1/2"	-	22	10	JANITOR	WATTS LF909	GRINNEL JOSAM WILKINS

PLUMBING FIXTURE SCHEDULE								
TAG	FIXTURE	DESCRIPTION	FAUCETS/ FITTINGS	TRIM	ACCESSORIES	REFERENCE PRODUCT	ACCEPTABLE EQUALS	
								FCO
FD-1	FLOOR DRAIN FINISHED AREAS	DURA-COATED CAST IRON BODY WITH BOTTOM OUTLET, NICKEL BRONZE TOP, COMBINATION INVERTIBLE MEMBRANE CLAMP AND ADJUSTABLE COLLAR WITH SEEPAGE SLOTS AND TOP ASSEMBLY, EZI DRAINAGE SERIES COMPRISED OF CONCRETE SHIELD UP TO 1" OF VERTICAL POST POUR ADJUSTMENT, 1 3/4" TO 3 1/4" EXTENSION ADAPTER AVAILABLE				ZURN Z415-B21	JR SMITH WADE WATTS	
FD-2	FLOOR DRAIN UTILITY AREAS	DURA-COATED CAST IRON BODY WITH BOTTOM OUTLET, SEEPAGE PAN, MEMBRANE FLASHING CLAMP WITH SEEPAGE SLOTS, ADJUSTABLE EXTENSION FRAME WITH HEAVY-DUTY CAST IRON DEEP FLANGE SLOTTED GRATE				ZURN Z520-NH	JR SMITH WADE WATTS	
FW-1	FREEZEPROOF WALL HYDRANT ENCASED	ENCASED ECOLOTROL "ANTI-SIPHON" AUTOMATIC DRAINING WALL HYDRANT FOR FLUSH INSTALLATION, NON-FREEZE TYPE INTEGRAL BACKFLOW PREVENTER, BRONZE CASING, ALL BRONZE INTERIOR PARTS				ZURN Z1300	JR SMITH WADE WATTS	
LV-1	LAVATORY UNDERMOUNT ADA	VITREOUS CHINA, UNDERMOUNT, RECTANGULAR BASIN WITH OVERFLOW DRAIN, WHITE, GLAZED UNDERSIDE	SYMMONS SLW6712PP	McGUIRE 165		TOTO LT191G	AMERICAN STANDARD ELJER	
MS-1	MOP SINK CORNER	CORNER MOP SINK, MOLDED STONE IN MATCHED METAL DIES UNDER HEAT AND PRESSURE, ONE PIECE BASIN, 24" X 24" X 12" DEEP, 3-1/2" DRAIN OPENING STAINLESS STEEL FLAT GRID STRAINER	FIAT 830AA			FIAT TSBC6010	AMERICAN STANDARD FLORESTONE	
SH-1	SHOWER STALL ADA 36" x 36"	PRESSURE BALANCING MIXING VALVE, ADJUSTABLE STOP SCREW, SINGLE BRONZE STEM, STAINLESS STEEL HOUSING, COPPER NICKEL CHROME PLATED TRIM HAND HELD SPRAYER, IN-LINE VACUUM BREAKER, STAINLESS STEEL HOSE, SLIDE BAR				AQUATIC 1363BFSO	AMERICAN STANDARD FLORESTONE	
SK-1	SINK SINGLE BOWL UNDERMOUNT 30"x18"x9" DP	18 GAUGE, 304 STAINLESS STEEL SINGLE COMPARTMENT UNDERMOUNT SINK, ROUNDED BOWL, 3-1/2" DRAIN OPENING, UNIQUE SOUND-DEADENING SYSTEM, UPC CERTIFIED	KOHLER K-596	McGUIRE 165		ABSOLUTE STONE CORP. LC3018	JUST ELKAY AMERICAN STANDARD	
TMV-1	THERMOSTATIC MIXING VALVE POINT-OF-USE	HOT WATER INLET TEMPERATURE: 120 DEG F TO 180 DEG F, MINIMUM INLET TEMPERATURE DIFFERENTIAL: 5 DEG F, TEMPERATURE RANGE: 80 DEG F TO 120 DEG F, MINIMUM FLOW: 0.25 GPM, CHECK VALVE ON INLETS, STRAINER STOP CHECKS ON INLETS, ASSE 1070 RATED				WATTS LFUSG-B M3	LAWLER POWERS LEONARD	
TS-1	TRAP SEAL	WATERLESS INLINE 3" DRAIN TRAP SEAL, HDPE (HIGH DENSITY POLYETHYLENE) HOUSING WITH PROPRIETARY HEAVY DUTY SILICONE DIAPHRAGM AND SOFT EPDM RUBBER SEALING GASKET, FLOOR RATING ASSE 1072 AF GW				RECTORSEAL SS3009V	JR SMITH MIFAB ZURN	
WB-1	WALL BOX	PLASTIC WASHER WALL BOX, WITH SINGLE LEVER VALVE AND INTEGRAL HAMMER ARRESTERS, FIRE RATED, BOX IS PVC RESIN & INTUMESCENT PAD ATTACHED, 1/2" MIP/ SWEAT CONNECTION, VALVES COMPLY WITH ASME A112.18.1, HAMMER ARRESTERS COMPLY WITH ASSE 1010				GUY GRAY FR12SS	OATEY CO. SIOUX CHIEF	
WC-1	WATER CLOSET FLOOR MOUNT TANK TYPE - ADA	VITREOUS CHINA, TWO-PIECE, FLOOR MOUNT, TANK TYPE, 16 1/2" HIGH ELONGATED BOWL, CLOSE COUPLED TANK, FULLY GLAZED 2 1/8" TRAPWAY, 1.29 GAL PER FLUSH, POLISHED CHROME TRIP LEVER, 12" ROUGH IN			AMERICAN STANDARD 5325.010	AMERICAN STANDARD 4225A.164	AMERICAN STANDARD 3196C.101	PROFLO STERLING
WCO	WALL CLEANOUT	DURA-COATED CAST IRON BODY WITH GAS AND WATER TIGHT ABS TAPERED THREAD PLUG, ROUND SMOOTH, STAINLESS STEEL ACCESS COVER WITH SECURING VANDAL PROOF SCREW, NO HUB CONNECTION				ZURN Z1441-VP	JR SMITH WADE	

SPECIALTIES SCHEDULE						
TAG	FIXTURE	DESCRIPTION	PIPING CONNECTIONS		REFERENCE PRODUCT	ACCEPTABLE EQUALS
			INLET	OUTLET		
EXT-1	EXPANSION TANK 2.0 GALLON	FABRICATED STEEL SHELL, DIAPHRAGM BLADDER, MAXIMUM WORKING PRESSURE IS 150 PSIG, MAXIMUM ALLOWABLE WORKING TEMPERATURE IS 200 F MAX	3/4"	-	AMTROL ST-5	JR SMITH TACO WATTS

BALANCING VALVE SCHEDULE						
TAG	FIXTURE	DESCRIPTION	PIPING CONNECTIONS		SET TEMP.	REFERENCE PRODUCT
			INLET	OUTLET		
BV-1	HOT WATER RETURN BALANCING VALVE	SELF-ACTING THERMOSTATIC RECIRCULATION VALVE WHICH AUTOMATICALLY AND CONTINUOUSLY MAINTAINS THE END OF EACH DOMESTIC HOT WATER SUPPLY LINE AT THE SPECIFIED WATER TEMPERATURE	1/2"	1/2"	140 DEGREES	CIRCUITSOLVER CSA-1/2-140-CV1
BV-2	HOT WATER RETURN BALANCING VALVE	SELF-ACTING THERMOSTATIC RECIRCULATION VALVE WHICH AUTOMATICALLY AND CONTINUOUSLY MAINTAINS THE END OF EACH DOMESTIC HOT WATER SUPPLY LINE AT THE SPECIFIED WATER TEMPERATURE	3/4"	3/4"	140 DEGREES	CIRCUITSOLVER CSA-3/4-140-CV1



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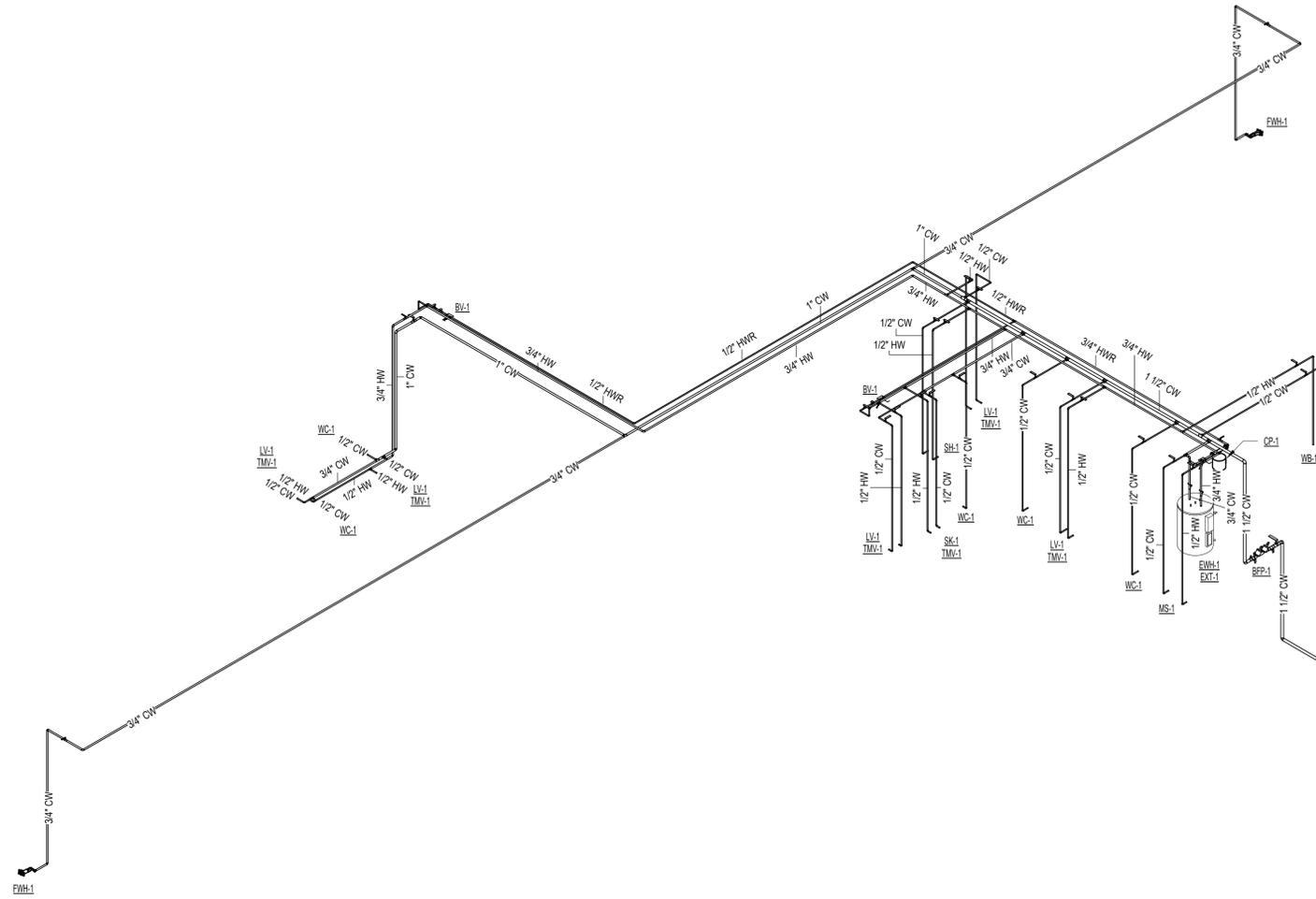
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F-10841  
EXP. 09/30/25

PLUMBING SCHEDULES

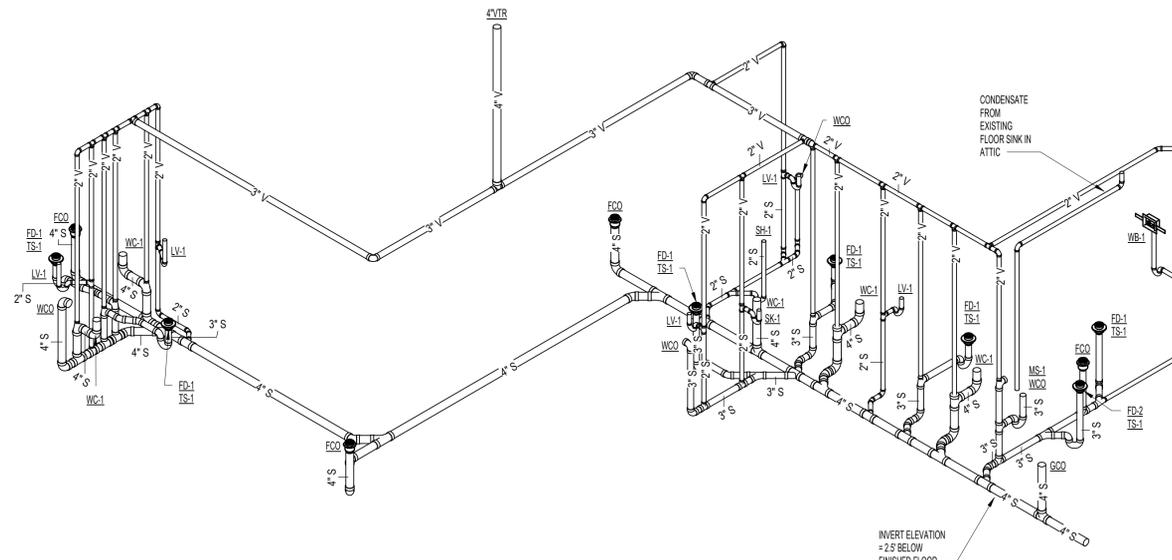
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SHEET NUMBER: P601

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**2** WATER ISOMETRIC  
 NOT TO SCALE



**1** SANITARY & VENT ISOMETRIC  
 NOT TO SCALE

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**PLUMBING ISOMETRICS**  
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