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Dewberry

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RD 27546

DESCRIPTION

BUILDING CODE SUMMARY

50189359

		LII L-OAI LII I LINLINATION OCHLOULL				
	ASSEMBLY AND PENETRATION TYPE			U.L. DETAIL SYSTEM NUMBER		
	(0	INSULATED METAL PIPES	1 or 2	CAJ-5061, CAJ-5090, CAJ-5091, CAJ-5096, CAJ-5277		
	RS		3	CAJ-5061, CAJ-5090		
	1000	UNINSULATED METAL PIPES OR CONDUITS	1 or 2	CAJ-1226, CAJ-1155, CAJ-1380, CAJ-1575, FA-1028		
	Щ		4	CBJ-1037		
	Ш	UNINSULATED NON-METAL PIPES OR CONDUITS	1 or 2	CAJ-2109, CAJ-2407, CAJ-2567, CAJ-2831		
	CONCRET	UNINSULATED METAL DUCTWORK WITHOUT DAMPERS	1 or 2	CAJ-7029, CAJ-7084		
	2	CABLES	1 or 2	CAJ-3095, CAJ-3210, CAJ-3239		
	00	CABLE TRAYS	1 or 2	CAJ-4034, CAJ-4035, CAJ-4083		
			4	CAJ-4107		
	တ	INSULATED METAL PIPES	1 or 2	CAJ-5061, CAJ-5090, CAJ-5091, CAJ-5096, CAJ-5277		
	WALL		4	WJ-5028		
		UNINSULATED METAL PIPES OR CONDUITS	1 or 2	CAJ-1226, CAJ-1155, CAJ-1380, CAJ-1575		
	ONCRETE / MASONRY		4	CAJ-1630		
		UNINSULATED NON-METAL PIPES OR CONDUITS	1 or 2	CAJ-2109, CAJ-2407, CAJ-2567, CAJ-2831		
		INSULATED METAL DUCTWORK WITHOUT DAMPERS	1 or 2	CAJ-7145, WJ-7091, WJ-7112		
		UNINSULATED METAL DUCTWORK WITHOUT DAMPERS	1 or 2	CAJ-7029, WJ-7109, WJ-7021		
			3	CAJ-7192		
		CABLES	1 or 2	CAJ-3095, CAJ-3180, WJ-3036		
		CABLE TRAYS	1 or 2	CAJ-4034, CAJ-4035, CAJ-4083		
	O		4	CAJ-4107		
	RD	INSULATED METAL PIPES	1 or 2	WL-5046, WL-5047, WL-5096		
			4	WL-5073		
	ВОА	UNINSULATED METAL PIPES OR CONDUITS	1 or 2	WL-1164, WL-1205, WL-1465		
	GYPSUM WALLBOARD	UNINSULATED NON-METAL PIPES OR CONDUITS	1 or 2	WL-2084, WL-2341, WL-2649		
		INSULATED METAL DUCTWORK WITHOUT DAMPERS	1 or 2	WL-7151, WL-7156		
$-\parallel$	PSU	UNINSULATED METAL DUCTWORK WITHOUT DAMPERS	1 or 2	WL-7155, WL-7213, WL-7250		
	Ğ√	CABLES	1 or 2	WL-3065, WL-3111, WL-3161		
		CABLE TRAYS	1 or 2	WL-4011, WL-4019, WL-4081		

GENERAL NOTES - ELECTRICAL

. ELECTRICAL PLANS ARE GENERALLY DIAGRAMMATIC IN NATURE AND DO NOT CONVEY ALL DETAILS REQUIRED FOR A COMPLETE INSTALLATION. HOWEVER, THESE PLANS SHALL BE FOLLOWED AS CLOSELY AS POSSIBLE FOR GENERAL ARRANGEMENT AND LOCATION OF EQUIPMENT. REFER TO ARCHITECTURAL PLANS FOR EXACT LOCATIONS. DIMENSIONS AND MOUNTING METHODS. CONTRACTOR SHALL VERIFY ALL DIMENSIONS PRIOR TO COMMENCING WORK. CONTRACTOR SHALL VERIFY STRUCTURAL AND FINISH CONDITIONS PRIOR TO COMMENCING WORK. CONTRACTOR SHALL ARRANGE WORK TO MEET THESE CONDITIONS AND PROVIDE SUCH EQUIPMENT AND ACCESSORIES AS MAY BE REQUIRED. IN THE EVENT OF A CONFLICT, DEVIATION OR DISCREPANCY FOUND WITHIN THE PLANS OR SPECIFICATIONS, CONTRACTOR SHALL PROVIDE WRITTEN NOTIFICATION TO ENGINEER OF RECORD FOR CLARIFICATION PRIOR TO COMMENCING WORK.

 ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS, MANUFACTURERS' RECOMMENDED INSTALLATION PROCEDURES. THE AMERICANS WITH DISABILITIES ACT, ANSI A117.1, THE NATIONAL ELECTRICAL CODE, THE NATIONAL FIRE ALARM AND SIGNALING CODE AND ALL OTHER APPLICABLE LOCAL AND STATE CODES AS ADOPTED

- 4. CONTRACTOR SHALL COORDINATE WITH OWNER FOR ACCESS TO AREA OF WORK AND FOLLOW
- 5. ALL WORK SHALL BE PHASED IN ACCORDANCE WITH CONTRACT PLANS, SPECIFICATIONS AND
- 6. ALL MATERIALS AND EQUIPMENT FURNISHED FOR THIS PROJECT SHALL BE NEW AND SHALL BE LISTED AND LABELED BY A THIRD PARTY NATIONALLY RECOGNIZED TESTING LABORATORY AS REQUIRED AND PERMITTED BY AUTHORITIES HAVING JURISDICTION. WHERE MULTIPLE PIECES OF EQUIPMENT AND/OR COMPONENTS ARE INSTALLED IN A COMMON ENCLOSURE, THE ENTIRE ASSEMBLY SHALL BE LISTED AND LABELED AS AN ASSEMBLY. MODIFICATIONS OR ADDITIONS
- CONTRACTOR SHALL COORDINATE LOCATIONS OF ALL FIRE AND/OR SMOKE RATED WALLS, BARRIERS, CEILINGS, FLOORS, PARTITIONS, AND ROOFS PRIOR TO AND DURING CONSTRUCTION.
- THROUGH-PENETRATION DRAFT, FIRE AND SMOKE STOP SYSTEMS FOR ALL NEW FIRE AND/OR SMOKE-RATED WALL, BARRIER, CEILING, FLOOR AND ROOF PENETRATIONS WITHIN THE AREA OF WORK IN ACCORDANCE WITH THE REQUIREMENTS OF THE NATIONAL ELECTRICAL CODE, NATIONALLY RECOGNIZED TESTING LABORATORY LISTED REQUIREMENTS AND APPLICABLE BUILDING CODES. PROVIDE PENETRATION ASSEMBLIES SUITABLE FOR PARTICULAR CONSTRUCTION.
- ELECTRICAL WORK AND DEVICES ON EXTERIOR AND PERIMETER WALLS.
- COMMENCING WORK TO ENSURE ELECTRICAL WORK DOES NOT INTERFERE WITH OTHER TRADES. LINES AND SYSTEMS THAT REQUIRE SLOPE SHALL TAKE PRECEDENCE OVER ELECTRICAL WORK.
- 11. CONTRACTOR SHALL REFER TO MECHANICAL AND PLUMBING DRAWINGS FOR LOCATIONS OF MECHANICAL AND PLUMBING EQUIPMENT. CONTRACTOR SHALL REFER TO DRAWINGS OF OTHER TRADES FOR LOCATIONS OF THEIR EQUIPMENT. CONTRACTOR SHALL COORDINATE
- 12. PRIOR TO EQUIPMENT INSTALLATION, CONTRACTOR SHALL CONDUCT FIELD MEASUREMENTS TO ENSURE ALL ELECTRICAL EQUIPMENT AND ACCESSORIES WILL FIT INTO LOCATION(S) AS INDICATED ON PLANS. IN THE EVENT OF A CONFLICT, DEVIATION OR DISCREPANCY, CONTRACTOR SHALL PROVIDE A PROPOSED SKETCH OF REVISED ARRANGEMENT TO ENGINEER OF RECORD FOR ACCEPTANCE PRIOR TO COMMENCING WORK.
- 15. CONTRACTOR SHALL VERIFY CEILING SYSTEMS AND PROVIDE MOUNTING ACCESSORIES. TRIMS AND ALL REQUIRED MOUNTING HARDWARE TO SUIT THE PARTICULAR INSTALLATION.
- OR GENERALLY SEAL OR OBSCURE ELECTRICAL INSTALLATIONS PRIOR TO INSPECTION AND ACCEPTANCE BY AUTHORITIES HAVING JURISDICTION.
- 17. CONTRACTOR SHALL REMOVE ALL DIRT AND DEBRIS FROM ALL ELECTRICAL ENCLOSURES AND DEVICE, JUNCTION AND PULL BOXES PRIOR TO INSTALLATION OF DEVICES, COVERPLATES AND
- 18. CONTRACTOR SHALL LABEL ALL COVERPLATES, EQUIPMENT, JUNCTION BOXES, AND PULL BOXES WITH CIRCUIT AND PANEL DESIGNATIONS. REFER TO DETAILS AND SPECIFICATIONS FOR SPECIFIC LABEL AND IDENTIFICATION REQUIREMENTS.
- 19. CONTRACTOR SHALL PROVIDE NEW, TWO COLUMN, TYPED, COMPLETED AND REMOVABLE DIRECTORIES INDICATING CIRCUIT DESCRIPTIONS AND ROOM NUMBERS (AS INDICATED BY FINAL ROOM SIGNAGE), FOR ALL AFFECTED CIRCUITS WITHIN ELECTRICAL DISTRIBUTION EQUIPMENT. ALL SPACES SHALL BE INDICATED AS SUCH. ALL SPARES SHALL BE INDICATED AS SUCH AND PLACED IN THE "OFF" POSITION.
- 20. MINIMUM RACEWAY SIZE OF 3/4", UNLESS NOTED OTHERWISE. WHERE WIRING IS EXPOSED, IN NON-ACCESSIBLE AREAS OR REQUIRING PROTECTION FROM DAMAGE - SUCH AS PASSING THROUGH A FLOOR OR WALL, METALLIC CONDUIT SHALL BE USED. OTHERWISE, PLENUM RATED CABLE MAY BE SUITABLE IN PLENUMS INSTALLED PER NFPA72 12.3 AND 24.3.13-14.
- 21. ALL RACEWAYS SHALL BE INSTALLED CONCEALED ABOVE CEILINGS, WITHIN WALLS OR BELOW FLOORS EXCEPT WITHIN UNFINISHED SPACES AND ON CEILINGS OF AREAS WITH EXPOSED

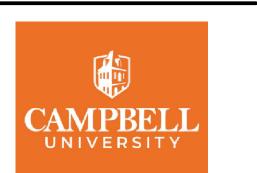
GENERAL NOTES - ELECTRICAL

- 23. ALL EXPOSED RACEWAY ENDS SHALL BE PROVIDED WITH PLASTIC BUSHINGS
- 24. ALL ELECTRICAL CONDUCTORS, EQUIPMENT AND TERMINALS SHALL BE 75°C RATED UNLESS NOTED OTHERWISE.
- 25. MINIMUM CONDUCTOR SIZE OF #12AWG, COPPER, THHN/THWN, FOR BRANCH CIRCUITS, UNLESS NOTED OTHERWISE
- 26. DEVICE BACK BOXES LOCATED ON OPPOSITE SIDES OF FIRE OR SMOKE RATED PARTITIONS SHALL NOT BE MOUNTED WITHIN THE SAME WALL CAVITY. WALL PENETRATIONS SHALL BE SEPARATED BY MOUNTING BOXES ON OPPOSITE SIDES OF WALL STUDS OR OTHER VERTICAL STRUCTURAL MEMBER INSIDE THE WALL.
- 27. SMOKE DETECTORS SHALL BE LOCATED MINIMUM 3'-0" FROM HVAC SUPPLY AND RETURN OPENINGS.
- 28. WHERE MULTIPLE VISUAL NOTIFICATION DEVICES CAN BE SEEN FROM A SINGLE LOCATION DURING NORMAL FACILITY OPERATION, ALL STROBES SHALL BE SYNCHRONIZED TO ALLOW FOR SIMULTANEOUS OPERATION.

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KEY PLAN

SEAL

RSII US

•	REVIS	SIONS	
	NO.	DESCRIPTION	DATE
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ELECTRICAL

SYMBOLS, NOTES & ABBREVATIONS

PROJECT NO.

CHECKED B

50189359

NOTES: REFER TO SECTION 230500 FOR MORE INFORMATION.

SELECT UL LISTED PENETRATION DETAIL MATCHING THE PENETRATION CONDITIONS.

3. SUBMIT AN APROPRIATE DETAIL FOR ENGINEER REVIEW IF THE PROJECT CONDITIONS ARE NOT REPRESENTED ABOVE.

CIRCUIT SYMBOLS

WIRES DESCRIPTION HOME RUN. NUMERALS INDICATE PANELBOARD AND CIRCUIT NUMBERS. HOME RUN. MULTIPLE ARROWS INDICATES NUMBER OF CIRCUITS INCLUDED IN CONDUIT (1, 2 OR 3). JNCONTROLLED CIRCUIT INDICATES CIRCUIT CONTINUATION STUB INTO ACCESSIBLE CORRIDOR CEILING SPACE UNO

POWER SYMBOLS

SYMBOL DESCRIPTION WALL MOUNTED PANEL (SHADING INDICATES ESSENTIAL BRANCH) \sqcup

STANDARD WALL MOUNTING HEIGHT

DEVICE OR NOTES MOUNTING MEASURED **EQUIPMENT** HEIGHT TO TYPE (AFF/AFG) **EMERGENCY** TOP 1, 2 LIGHTS FA NOTIFICATION 84" **BOTTOM** DEVICES FA PULL STATIONS 48" TOP 1 **PANELBOARDS** TOP 1, 3 78" NOTES:

. UNLESS NOTED OTHERWISE. WALL MOUNTING HEIGHTS INDICATED ON DRAWINGS OR DETAILS SHALL SUPERSEDE STANDARD WALL MOUNTING HEIGHTS LISTED HERE. COORDINATE ALL DEVICE LOCATIONS WITH OTHER TRADES PRIOR TO INSTALLATION. COORDINATE EXACT HEIGHT AND LOCATION WITH ARCHITECTURAL INTERIOR ELEVATIONS AND CASEWORK SHOP DRAWINGS PRIOR TO INSTALLATION. ADJUST TO MATCH MASONRY COURSES, IF APPLICABLE. MOUNT ALL BOXES TRUE AND PLUMB.

2. CEILING HEIGHT PERMITTING, OTHERWISE MOUNT 12" BELOW CEILING TO TOP OF BOX.

3. MOUNTING HEIGHT AS MEASURED TO TOP OF ENCLOSURE OR CENTER OF OPERATING HANDLE AT HIGHEST POSITION, WHICHEVER IS HIGHER. STACKING OF SAFETY SWITCHES, ENCLOSED CIRCUIT BREAKERS AND MOTOR STARTERS IS PERMITTED.

4. CEILING HEIGHT PERMITTING, MOUNT EXIT SIGN 18" ABOVE TOP OF DOOR FRAME AS MEASURED FROM TOP OF SIGN. FOR ALL OTHER AREAS AND CEILING HEIGHT PERMITTING, MOUNT 96" AFF TO TOP OF BOX. OTHERWISE, MOUNT 12" BELOW CEILING TO TOP OF BOX.

5. MOUNT 6" ABOVE COUNTERTOP OR BACKSPLASH (IF APPLICABLE) TO TOP OF BOX. COORDINATE EXACT HEIGHT AND LOCATION WITH ARCHITECTURAL INTERIOR ELEVATIONS AND CASEWORK SHOP DRAWINGS PRIOR TO

FIRE ALARM SYMBOLS

SYN	/IBOL	DESCRIPTION		
CEILING MOUNTED	WALL			
BT(S)	BR	SMOKE DETECTOR PHOTOELECTRIC, UNO.	<u>SUBSCRIPTS</u>	
H	<u> </u>	HEAT DETECTOR RATE OF RISE, UNO.	"BR" = BEAM RECEIVER "BT" = BEAM TRANSMITTER "ER" = ELEVATOR "F" = FIXED TEMPERATURE "IP" = COMBINATION I/P "RF" = COMBINATION R/F "IO" = IONIZATION "SB" = SOUNDER BASE "SC" = SECURITY COVER "WG" = WIRE GUARD "WP" = WEATHER PROOF	
×	×	VISIBLE	SUBSCRIPTS	
D <u>⊠</u> d	۷Ø	COMBINATION AUDIBLE/VISIBLE	"#cd" = CANDELA "#dB" = DECIBEL RATING "#W" = SPEAKER WATTAGE "WG" = WEATHER GUARD "WP" = WEATHER PROOF	
TACP		"ASDP" "BATT" "DACT" SURFACE MOUNTED "FAA" "FACU" "FATC" "NAC" "SECP"	DETECTOR PANEL = BATTERY CABINET = DIGITAL ALARM COMMUNICATIONS TRANSMITTER = ANNUNCIATOR PANEL = CONTROL UNIT = TERMINAL CABINET = NOTIFICATION APPLIANCE CIRCUIT PANEL	

AND MODIFIED BY THE AUTHORITIES HAVING JURISDICTION.

3. AN ELECTRICAL FOREMAN SHALL BE ON-SITE, SUPERVISING ALL WORK PERFORMED.

ALL OWNER ENVIRONMENTAL, HEALTH, SAFETY AND SECURITY PROTOCOLS.

OWNER'S REQUIREMENTS.

TO EXISTING EQUIPMENT SHALL MATCH EXISTING TO MAINTAIN ANY ASSEMBLY LISTING.

CONTRACTOR SHALL PROVIDE NATIONALLY RECOGNIZED TESTING LABORATORY LISTED

9. CONTRACTOR SHALL MAINTAIN INTEGRITY OF VAPOR BARRIER AND INSULATION FOR ALL

10. CONTRACTOR SHALL COORDINATE ELECTRICAL WORK WITH ALL OTHER TRADES PRIOR TO

AND VERIFY ELECTRICAL REQUIREMENTS WITH OTHER TRADES PRIOR TO COMMENCING WORK.

13. PROPERLY SUPPORT ALL WORK AND EQUIPMENT INSTALLED UNDER THIS CONTRACT PLUMB AND PARALLEL WITH BUILDING LINES. STUDY ALL GENERAL, STRUCTURAL, PLUMBING, HVAC, AND ELECTRICAL DRAWINGS, SHOP DRAWINGS, AND CATALOG DATA TO DETERMINE HOW EQUIPMENT, ACCESSORIES, PIPING, FIXTURES, AND RELATED ITEMS ARE TO BE SUPPORTED, MOUNTED, OR SUSPENDED. PROVIDE ALL BOLTS, INSERTS, PIPE STANDS, BRACKETS, STRUCTURAL SUPPORTS, AND ACCESSORIES FOR PROPER SUPPORT OF EQUIPMENT FURNISHED UNDER THIS CONTRACT.

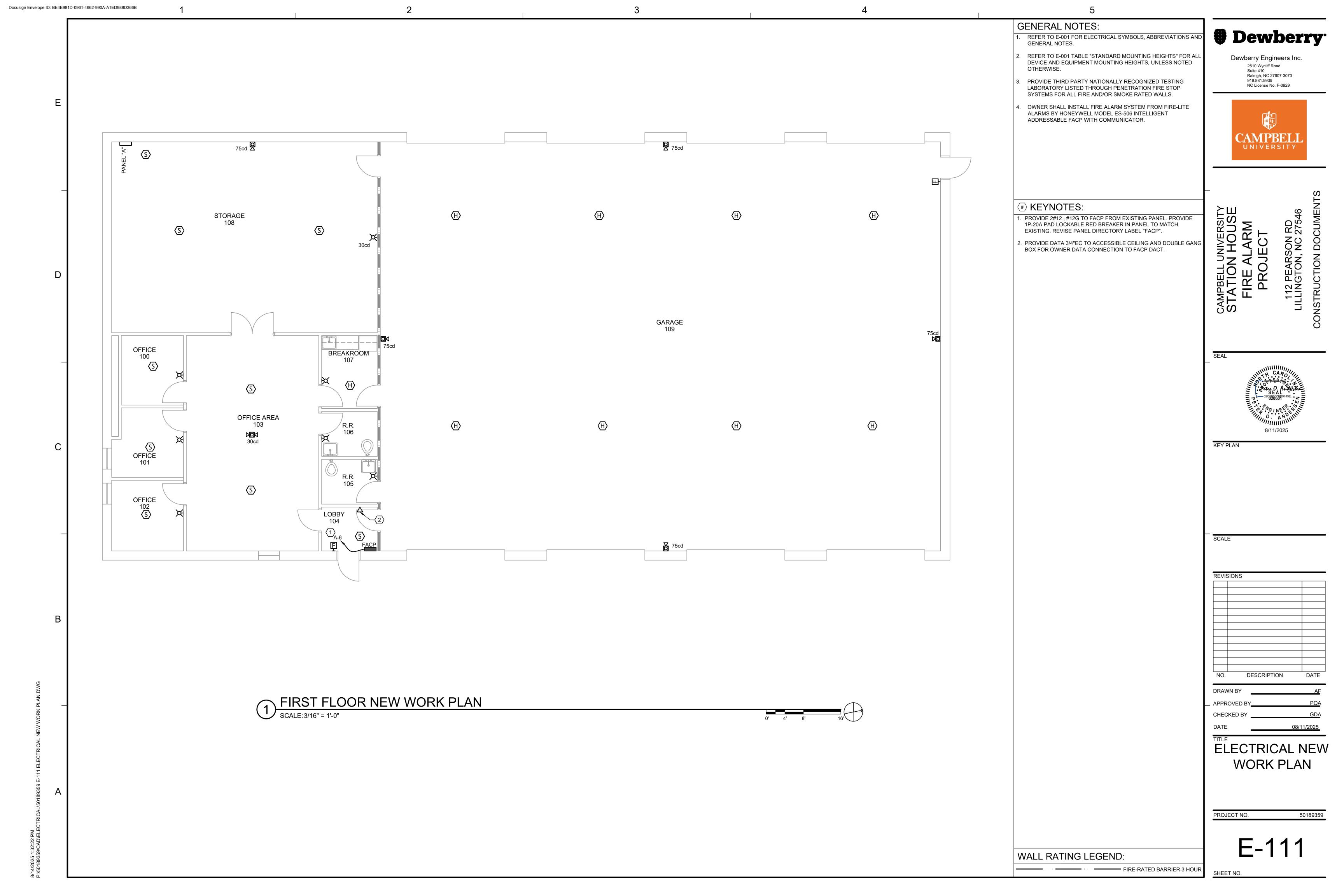
14. CONTRACTOR SHALL PROVIDE ADDITIONAL SUPPORT FOR DEVICE BACK BOXES, EQUIPMENT. LUMINAIRES AND RACEWAY WHERE BUILDING CONSTRUCTION IS NOT SUITABLE FOR DIRECT

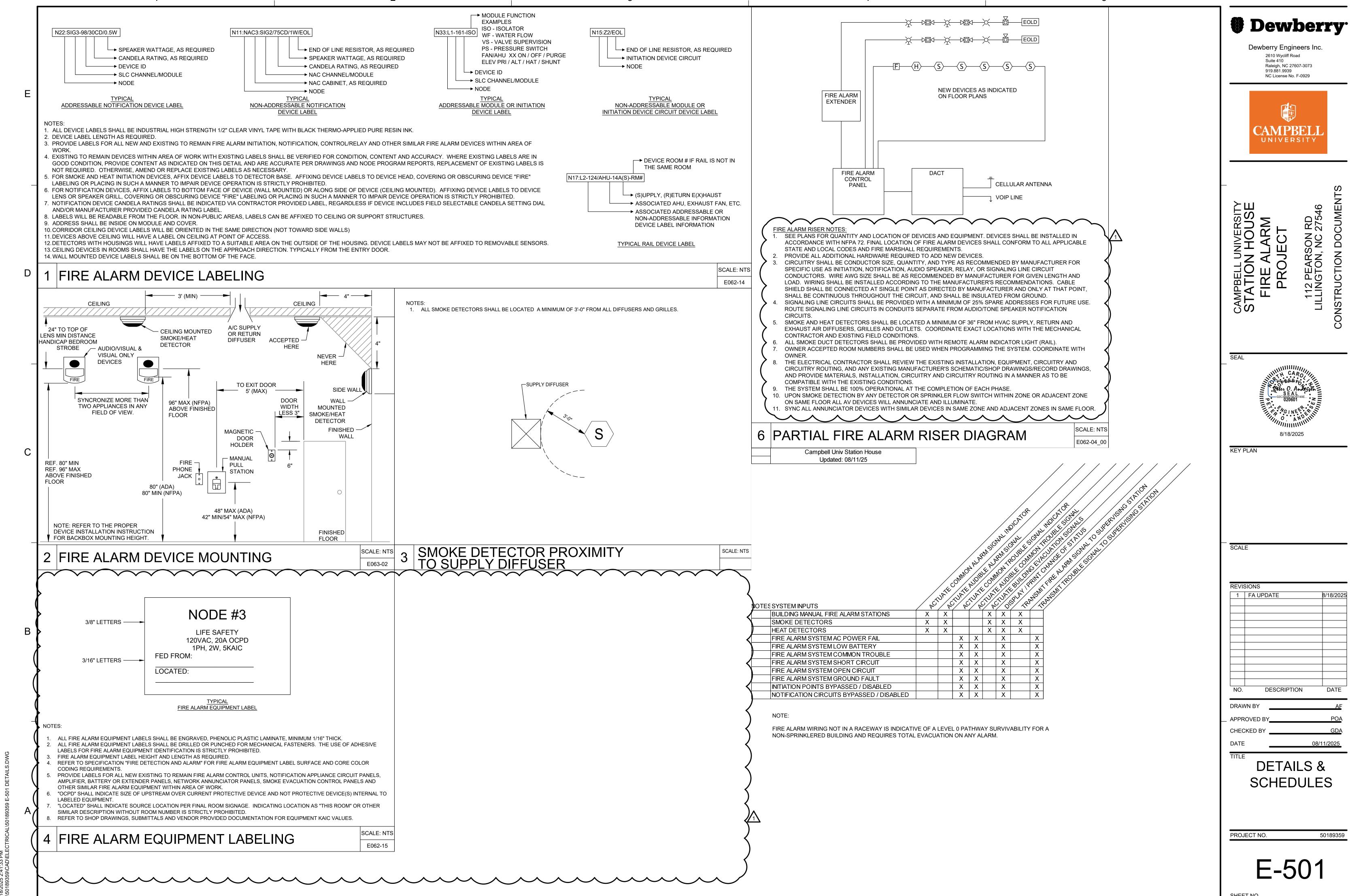
MOUNTING.

16. CONTRACTOR SHALL NOT BACKFILL EXCAVATIONS, INSTALL COVERPLATES AND ENCLOSURES

STRUCTURE.

22. ALL EMPTY RACEWAYS SHALL BE PROVIDED WITH PULL STRINGS INSTALLED PER SPECIFICATIONS.





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