### **SCOPE OF WORK**

PROVIDE TWO NEW 4 TON DUCTED SPLIT HEAT PUMP UNITS. PROVIDE NEW DUCTWORK WHERE NECESSARY AND PROVIDE NECESSARY ACCESSORIES FOR COMPLETE HVAC SYSTEMS.

PROVIDE 1 NEW RESTROOM EXHAUST FAN. PROVIDE 1 NEW KITCHEN EXHAUST FAN AS PER CODE REQUIREMENT.

COORDINATE WITH GC ANY ADDITIONAL REFRIGERATION WORK REQUIRED AND WORK REQUIRED ON KITCHEN EXHAUST SYSTEMS. MECHANICAL CONTRACTOR TO COORDINATE WITH PLUMBING CONTRACTOR TO PROVIDING CONDENSATE LINES FOR MECHANICAL EQUIPMENT AND GAS FLUE FOR WATER HEATER.

#### **MECHANICAL PLAN NOTES**

- A. USE NEW 4 TON DUCTED SPLIT HEAT PUMP UNITS. PROVIDE MODIFICATIONS TO DUCT SYSTEM AS SHOWN. PROVIDE FLEXIBLE CONNECTORS ON SUPPLY AND RETURN AIR DUCT CONNECTIONS. INSTALL FIRE DAMPERS IN ANY FIRE WALLS AND BETWEEN FLOORS. TRANSITION TO DUCT SIZES SHOWN. PROVIDE DUCTWORK AND AIR DISTRIBUTION DEVICES AS INDICATED ON THE PLAN. REFER TO ROOF TOP UNIT SCHEDULE FOR ADDITIONAL REQUIREMENTS.
- B. FOR SYSTEM OVER 2,000 CFM CHECK FOR DUCT MOUNTED AIR SMOKE DETECTORS AND THAT MEET THE REQUIREMENTS OF U.L. 268A, INTERLOCKED TO SHUTDOWN ROOF TOP UNIT UPON DETECTION OF SMOKE. IF NECESSARY PROVIDE SMOKE DETECTOR WITH AN ANNUNCIATOR, ALARM AND POWER L.E.D.'S FOR VISIBLE AND AUDIBLE ALARM SIGNAL, AND VISIBLE TROUBLE SIGNAL. MOUNT ANNUNCIATOR ON ROOM SIDE OF CEILING.
- ALL DUCTS WILL MINIMUM 26 GAUGE SHEET METAL WITH EXTERNAL DUCT WRAP INSULATION. ALL DUCTS TO BE MANUFACTURED AND INSTALLED ACCORDING TO ASHRAE AND SMACNA METAL DUCT CONSTRUCTION STANDARD, LATEST EDITION. ALL MATERIALS WILL CONFORM TO NFPA 90A. NO DUCT BOARD ALLOWED.
- THERMOSTATS SHALL BE 7-DAY PROGRAMMABLE TYPE. MOUNT THERMOSTAT 48" A.F.F. COORDINATE LOCATION OF THERMOSTAT.
- ALL INTERIOR AIR DUCTS WITH INSULATION SHALL HAVE A MINIMUM OF THICKNESS OF 1.5", R-12 INSULATION. ACCORDING TO 2018 NORTH CAROLINA ENERGY CONSERVATION CODE .
- ALL SEAMS, JOINTS, ETC WILL BE SEALED TO MAKE AIR DUCT AIRTIGHT. PRESSURE SENSITIVE MATERIALS AND OTHERS APPROVED BY LATEST SMACNA. SEALING MATERIALS WILL BE USED.
- G. ALL EVAPORATOR UNITS SHALL HAVE A FLOAT SWITCH TO CONTROL OVERFLOW THAT WILL AUTOMATICALLY SHUT DOWN THE A/C SYSTEM. THE DEVICE SHALL BE ATTACHED TO THE SECONDARY DRAIN OUTLET ON THE UNIT.
- ALL NEW A/C UNITS CONDENSATE DRAINS WILL BE COPPER FULL DIAMETER OF OUTLET AND WILL TERMINATE IN THE NEAREST ROOF DRAIN OR INDIRECT WASTE.
- ALL EQUIPMENT AND MATERIALS WILL BE INSTALLED ACCORDING TO THE MANUFACTURER'S INSTRUCTIONS AND ACCORDING TO THE BEST PRACTICE.
- TESTING AND BALANCING SHALL BE DONE IN ACCORDANCE WITH 2018 NORTH CAROLINA ENERGY CONSERVATION CODE. SECTION C408.2.2. BALANCING PROCEDURES SHALL BE IN ACCORDANCE WITH THE NATIONAL ENVIRONMENTAL BALANCING BUREAU (N.E.B.B.), THE ASSOCIATED AIR BALANCE COUNCIL (A.A.B.C) NATIONAL STANDARDS OR EQUIVALENT PROCEDURES.
- HANGER ATTACHMENTS TO THE STEEL STRUCTURE WILL BE RATED POWDER ACTUATED FASTENERS, "C" CLAMPS, WELDED STUDS, CLAMP HANGERS, JOIST CLAMPS OR OTHER METHODS RECOMMENDED BY SMACNA'S "METAL AND FLEXIBLE STANDARDS", CHAPTER 4, AND WILL HAVE A MINIMUM SAFETY MARGIN OF 4:1. SUSPENDED FROM TOP CHORD OF JOISTS, NOTHING FROM DECK OR CROSS BRACING.
- ALL HVAC CONTROLS AND CONTROL WIRING SHALL BE PROVIDED BY THE MECHANICAL CONTRACTOR.
- M. HVAC SYSTEM TO BE TIED INTO MALL ENERGY MANAGEMENT SYSTEM AT TENANTS COST.

#### **GENERAL NOTES**

- CONTRACTORS AND SUB-CONTRACTORS SHALL CAREFULLY REVIEW THE CONSTRUCTION DOCUMENTS. INFORMATION REGARDING THE COMPLETE WORK IS DISPERSED THROUGHOUT THE DOCUMENT SET AND CANNOT BE ACCURATELY DETERMINED WITHOUT REFERENCE TO THE COMPLETE DOCUMENT SET. PAY SPECIAL ATTENTION TO THE RESPONSIBILITY SCHEDULE. WORK DESIGNATED ON SCHEDULE SHALL BE CONSIDERED INCLUDED IN YOUR SCOPE OF WORK AND CONTRACT AMOUNT.
- CONTRACTOR TO VERIFY THAT ALL EQUIPMENT SHOWN AS EXISTING MATCHES THE DESCRIPTIONS AND SPECIFICATIONS SHOWN ON DRAWINGS AND SCHEDULES. IF DIFFERENT NOTIFY ARCHITECT/ENGINEER BEFORE BIDDING, ORDERING, OR PROCEEDING WITH WORK.
- DRAWINGS/DETAILS ARE TO BE CONSIDERED DIAGRAMMATIC, NOT NECESSARILY SHOWING IN DETAIL OR TO SCALE ALL MINOR ITEMS. UNLESS SPECIFIC DIMENSIONS ARE SHOWN, THE STRUCTURAL, ARCHITECTURAL AND SITE CONDITIONS SHALL GOVERN EXACT LOCATIONS. CONTRACTOR SHALL FOLLOW DRAWINGS IN LAYING OUT WORK, AND CHECK/COORDINATE DRAWINGS OF ALL TRADES.
- COORDINATE WITH THE WORK OF OTHERS SECTIONS. EQUIPMENT FURNISHED BY OTHERS, REQUIREMENTS OF THE OWNER, AND WITH THE CONSTRAINTS OF THE EXISTING CONDITIONS OF THE PROJECT SITE. PROVIDE DUCT RISES AND DRIPS AS REQUIRED FOR FIELD INSTALLATION AND TRADE COORDINATION. NOTIFY ARCHITECT OF ANY DISCREPANCIES BEFORE STARTING WORK
- DRAWINGS FOR HVAC WORK ARE DIAGRAMMATIC, SHOWING THE GENERAL LOCATION, TYPE, LAYOUT, AND EQUIPMENT REQUIRED. THE DRAWINGS SHALL NOT BE SCALED FOR EXACT MEASUREMENT. REFER TO MANUFACTURER'S STANDARD INSTALLATION DRAWINGS FOR EQUIPMENT CONNECTIONS AND INSTALLATION REQUIREMENTS. PROVIDE DUCTWORK, CONNECTIONS, ACCESSORIES, OFFSETS, AND MATERIALS NECESSARY FOR A COMPLETE SYSTEM.
- ALL WORK SHALL COMPLY WITH STATE AND LOCAL CODE REQUIREMENTS AS APPROVED AND AMENDED BY THE GOVERNING CITY. PURCHASE ALL PERMITS ASSOCIATED WITH THE WORK. OBTAIN ALL INSPECTIONS REQUIRED BY CODE.
- USE OF COMBUSTIBLE MATERIALS IS NOT ALLOWED IN THE RETURN AIR PLENUM. MATERIALS USED IN THE PLENUM SHALL HAVE FLAME SPREAD RATING NOT TO EXCEED 25, AND SMOKE DEVELOPED RATING NOT TO EXCEED 50 WHEN TESTED IN ACCORDANCE WITH ASTM E 84. ALL EXPOSED WIRING IN THE PLENUM SHALL BE PLENUM RATED.
- VERIFY LOCATION OF PERMISSIBLE NEW STRUCTURAL ROOF PENETRATIONS AND ADAPT THE REQUIRED DUCTS ACCORDINGLY. THE OPENINGS MUST BE LOCATED USING A REBAR LOCATOR, TRYING TO LEAVE A TRANSVERSE BAR WITHIN 4" FROM THE OPENING. LOCATE OPENINGS AT MID-DISTANCE BETWEEN THE STEMS OF THE DOUBLE TEE AND LONGITUDINAL REINFORCEMENT SHALL NEVER BE CUT. CALL THE ARCHITECT'S OFFICE IN CASE OF UNEXPECTED DIFFICULTIES.
- ALL A/C AND FRESH AIR ROUND EXPOSED DUCTS WILL BE SPIRAL GALVANIZED AND READY FOR PAINTING. ALL RECTANGULAR DUCTS OVER CEILINGS MAY BE SHEET METAL WITH EXTERNAL INSULATION. ALL SG SUPPLY GRILLS WILL BE DOUBLE DEFLECTION WITH VOLUME CONTROLS.
- G.C. SHALL CONTRACT LANDLORD-APPROVED ROOFING CONTRACTOR TO FLASH AND SEAL ALL ROOF PENETRATIONS TO MAINTAIN ROOFING WARRANTY.
- IF APPLICABLE CONTRACTOR TO PROVIDE SHOP DRAWINGS FOR KITCHEN VENTILATION SYSTEM INCLUDING TYPE 1 HOOD AND FOR THE WALK-IN COOLER & FREEZER.
- REQUIRED INSURANCE SHALL BE PROVIDED BY THE PLUMBING CONTRACTOR FOR PROTECTION AGAINST PUBLIC LIABILITY AND PROPERTY DAMAGE FOR THE DURATION OF THE WORK.
- CONSTRUCTION "AS BUILT" DRAWINGS AND DOCUMENTS SHALL BE PROVIDED TO THE OWNER WITHIN 30 DAYS AFTER THE DATE OF ACCEPTANCE AND PROVIDE COPY TO
- OPERATION MANUALS AND MAINTENANCE MANUALS SHALL BE PROVIDED TO THE BUILDING OWNER.

# NORTH CAROLINA BUILDING DEPARTMENT NOTES

ALL WORK SHALL COMPLY WITH APPLICABLE SECTIONS OF 2018 NORTH CAROLINA BUILDING CODE AND ALL AMENDMENTS AND RULES AND REGULATIONS OF THE DEPARTMENT OF BUILDINGS TO DATE. 1. THE CONTRACTOR SHALL ENGAGE THE THE SERVICES OF A PROFESSIONAL ENGINEER TO PROVIDE THE REQUIRED SPECIAL INSPECTIONS

AND TESTS IF REQUIRED. THE LICENSED PROFESSIONAL ENGINEER, ARCHITECT OR OTHER PERSON HAVING NOT LESS THAN FIVE (5) YEARS EXPERIENCE SUPERVISING THE INSTALLATION OF SUCH MECHANICAL SYSTEMS AND CONDUCTING SUCH TESTS WILL FILE DOCUMENTATION AND REPORTS OF TESTS THAT THE SYSTEM COMPLIES WITH THE CONSTRUCTION DOCUMENTS AND APPLICABLE LAWS.

TESTS OF MECHANICAL SYSTEMS SHALL BE PERFORMED IN ACCORDANCE WITH THE FOLLOWING SECTIONS OF THE 2018 NORTH CAROLINA MECHANICAL CODE:

- A. REFRIGERATION SYSTEMS MC 1108
- . THE FOLLOWING WORK ITEMS, COMPONENTS, MATERIALS, CAPACITIES, ETC. SHALL COMPLY WITH THE REFERENCED CODE OR STANDARD:
- A. DUCT CONSTRUCTION AND INSTALLATION- 2018 NCMC 603
- B. AIR INTAKES, EXHAUSTS AND RELIEF 2018 NCMC 401.5 C. GAS FIRED EQUIPMENT -2018 NORTH CAROLINA FUEL GAS CODE
- MINIMUM TEMPERATURE TO BE MAINTAINED IN OCCUPIED SPACES DURING HEATING SEASON: 68 DEG. FAHRENHEIT.
- 6. VENTILATION FOR ALL AREA SHALL COMPLY WITH 2018 NORTH CAROLINA MECHANICAL CODE .
- 7. A STATEMENT SHALL BE FILED BY THE OWNER OR TENANT IN POSSESSION THAT THE VENTILATION SYSTEM WILL BE KEPT IN CONTINUOUS OPERATION AT ALL TIMES DURING THE NORMAL OCCUPANCY OF THE STRUCTURE AS REQUIRED BY 2018 NORTH CAROLINA MECHANICAL CODE 403.3
- B. REFER TO ARCHITECTURAL DRAWINGS FOR REQUIRED FIRE-RATED WALL AND SMOKE WALL CONSTRUCTION AND LOCATION. 9. THESE PLANS ARE APPROVED ONLY FOR THE WORK INDICATED ON THE APPLICATION SPECIFICATION SHEET. ALL OTHER MATTERS SHOWN ARE NOT TO BE RELIED UPON OR TO BE CONSIDERED AS BEING APPROVED OR IN ACCORDANCE WITH APPLICABLE CODES.
- 10. MECHANICAL SYSTEMS SHALL BE COMMISSIONED PER 2018 NORTH CAROLINA ENERGY CONSERVATION CODE C403.2.2, C408.2.1, C408.2.5 FINAL COMMISSIONING REPORT SHALL BE DUE WITHIN 90 DAYS OF RECEIPT OF CERTIFICATE OF OCCUPANCY. 11. A COMMISSIONING PLAN SHALL BE DEVELOPED BY A LICENSED DESIGN PROFESSIONAL, MECHANICAL ENGINEER OR APPROVED AGENCY.
- 12. A PRELIMINARY REPORT OF COMMISSIONING TEST PROCEDURES AND RESULTS SHALL BE COMPLETED AND CERTIFIED BY THE LICENSED DESIGN PROFESSIONAL, ELECTRICAL ENGINEER, MECHANICAL ENGINEER OR APPROVED AGENCY AND PROVIDED TO THE BUILDING OWNER OR OWNER'S AUTHORIZED AGENT.
- 13. A WRITTEN REPORT DESCRIBING THE ACTIVITIES AND MEASUREMENTS COMPLETED IN ACCORDANCE WITH SECTION 2018 NORTH CAROLINA ENERGY CONSERVATION CODE C408.2.1. 14. ALL HEATING AND COOLING LOADS CALCULATED PER ASHRAE/ACCA 183.
- 15. SMOKE DETECTOR SHALL MEET UL268A.

### **THERMOSTATIC CONTROLS**

# . GENERAL: TEMPERATURE.

#### B. DEAD BAND:

WHERE USED TO CONTROL BOTH HEATING AND COOLING, ZONE THERMOSTATIC CONTROLS SHALL BE CAPABLE OF PROVIDING A TEMPERATURE RANGE OR DEAD BAND OF AT LEAST 5°F WITHIN WHICH THE SUPPLY OF HEATING AND COOLING ENERGY TO THE ZONE IS SHUT OFF OR REDUCED TO A MINIMUM. EXCEPTIONS:

COOLING MODES. C. SETBACK CONTROLS:

- D. AUTOMATIC SHUTDOWN: OPERATION OF THE SYSTEM FOR UP TO TWO HOURS.
- E. SETPOINT OVERLAP RESTRICTION: BAND.

THE SUPPLY OF HEATING AND COOLING ENERGY TO EACH ZONE SHALL BE INDIVIDUALLY CONTROLLED BY THERMOSTATIC CONTROLS RESPONDING TO

THERMOSTATS THAT REQUIRE MANUAL CHANGEOVER BETWEEN HEATING AND

HEATING SYSTEMS LOCATED IN CLIMATE ZONES 2-8 SHALL BE EQUIPPED WITH CONTROLS THAT HAVE THE CAPABILITY TO AUTOMATICALLY RESTART AND TEMPORARILY OPERATE THE SYSTEM AS REQUIRED TO MAINTAIN ZONE TEMPERATURES ABOVE A HEATING SETPOINT ADJUSTABLE DOWN TO 55°F OR LOWER. COOLING SYSTEMS LOCATED IN CLIMATE ZONES 1B, 2B, AND 3B SHALL BE EQUIPPED WITH CONTROLS THAT HAVE THE CAPABILITY TO AUTOMATICALLY RESTART AND TEMPORARILY OPERATE THE SYSTEM AS REQUIRED TO MAINTAIN ZONE TEMPERATURES BELOW A COOLING SETPOINT ADJUSTABLE UP TO 90°F OR HIGHER OR TO PREVENT HIGH SPACE HUMIDITY LEVELS.

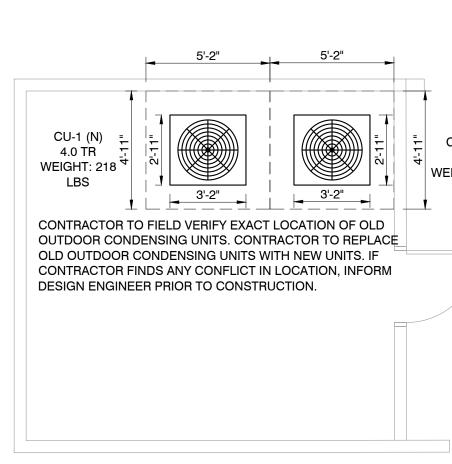
HVAC SYSTEMS SHALL BE EQUIPPED WITH AT LEAST ONE OF THE FOLLOWING: CONTROLS THAT CAN START AND STOP THE SYSTEM UNDER DIFFERENT TIME SCHEDULES FOR SEVEN DIFFERENT DAY-TYPES PER WEEK, ARE CAPABLE OF RETAINING PROGRAMMING AND TIME SETTING DURING LOSS OF POWER FOR A PERIOD OF AT LEAST TEN HOURS, AND INCLUDE AN ACCESSIBLE MANUAL OVERRIDE, OR EQUIVALENT FUNCTION, THAT ALLOWS TEMPORARY

WHERE HEATING AND COOLING TO A ZONE ARE CONTROLLED BY SEPARATE ZONE THERMOSTATIC CONTROLS LOCATED WITHIN THE ZONE, MEANS (SUCH AS LIMIT SWITCHES, MECHANICAL STOPS, OR, FOR DDC SYSTEMS, SOFTWARE PROGRAMMING) SHALL BE PROVIDED TO PREVENT THE HEATING SETPOINT FROM EXCEEDING THE COOLING SETPOINT MINUS ANY APPLICABLE PROPORTIONAL

000	UPANCY CALCULATION PE	R		
I	NCMC 2018, TABLE 403.3			
CUSTOMER AREA	176 SQ. FT. @50 PEOPLE/1000SQ.FT.	9 PEO	PLE	
KITCHEN	473 SQ. FT. @0 PEOPLE/1000SQ.FT.	0 PEOF	PLE	
(OCCUPANCY FOR \ ARCHITECTURAL LA	/ENTILATION CALCULATIONS IS CONSII YOUT)	DERED AS	PER	
VENTILATION I	REQUIREMENTS PER NCMC	2018	WITH	
OCC.	MODIFICATION, TABLE 403	3.3		
CUSTOMER ROOM	176 SQ. FT. X 0.06 CFM/SQ. FT. =	11	CFM	
	7 PEOPLE. X 7.5 CFM/PEOPLE. =	53	CFM	
OUTSIDE AIR REQUI	RED	64	CFM	
KITCHEN	473 SQ. FT. X 0.7 CFM/SQ. FT. =	330	CFM	
RESTROOM	70 CFM PER FIXTURE	70	CFM	
EXHAUST AIR REQU	IRED	400	CFM	
OUTSIDE AIR THROU	JGH AHU-1 (N)	250	CFM	
OUTSIDE AIR THROU	JGH AHU-2 (N)	250	CFM	
AIR BALANCE				
O/A PROVIDED		+500	CFM	
KEF-1		-330	CFM	
BEF-1	_		CFM	
BUILDING PRESSUR	E	+100	CFM	

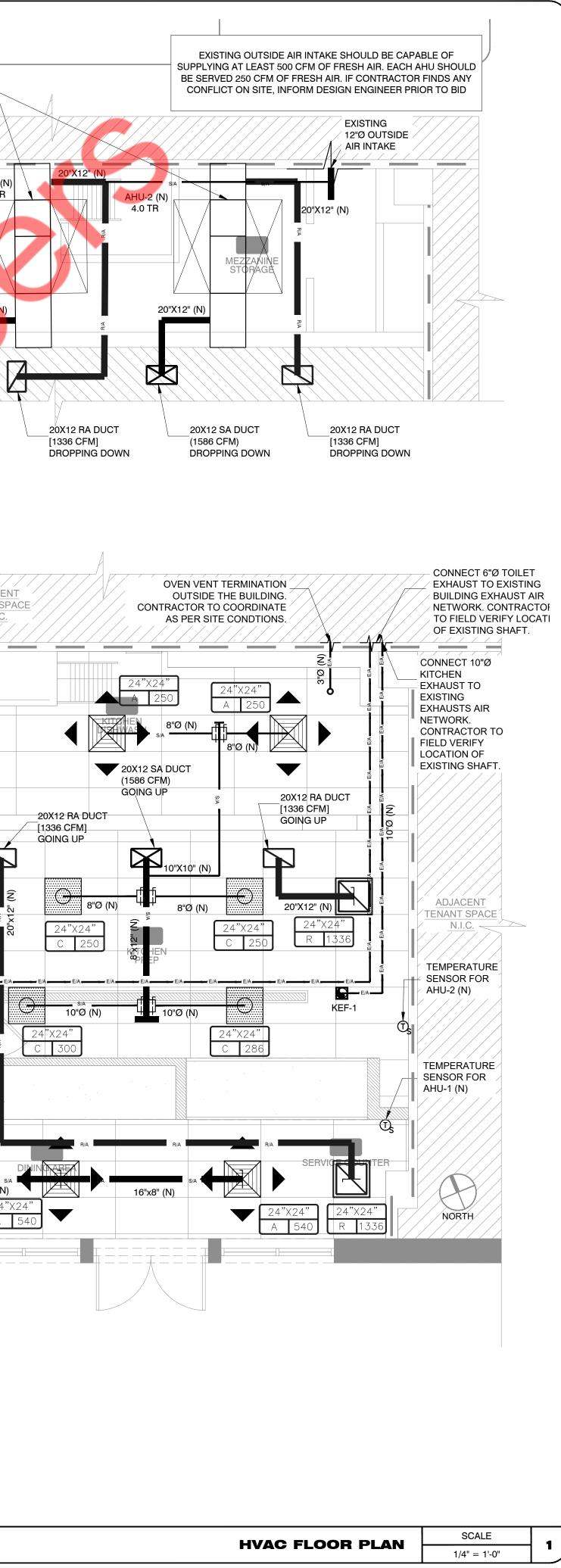
	DIFFU	JSER SCHED	DULE			
ANUFACTURER	TITUS	TITUS	TITUS	TITUS		
ESIGNATION	А	В	С	D		
SE	SUPPLY	SUPPLY	SUPPLY	RETURN		
ODEL	TMS	TMS	300 FS	56FL		
OUNTING	CEILING	HARD CEILING	DUCT/WALL	CEILING/WA		
DCATION	SEE PLAN	SEE PLAN	DINING	ANY		
ACE SIZE	24" X 24"	SEE PLAN	-	AS SHOWN		
ECK SIZE	TO MATCH DUCT	I TO MATCH DUCT	AS SHOWN	AS SHOWN		
RAME TYPE	LAY IN	FLANGED	FLANGED	LAY IN		
NISH	CONFIR	M FINAL FINISH/ O <mark>W</mark>	COLOR WITH AF NER.	RCHITECT/		
DISE CRITERIA	<30	<30	<30	<30		
CCESSORIES	VOLUME DAMPER	VOLUME DAMPER	OB DAMPER	VOLUME DAMPER		
$\blacklozenge, \blacklozenge$		FAN SCHEDULE				
AC-2	Т	AG	KEF-1	BEF-1		
CU-2		TATUS	NEW	NEW		
NEW		UANTITY	1	1		

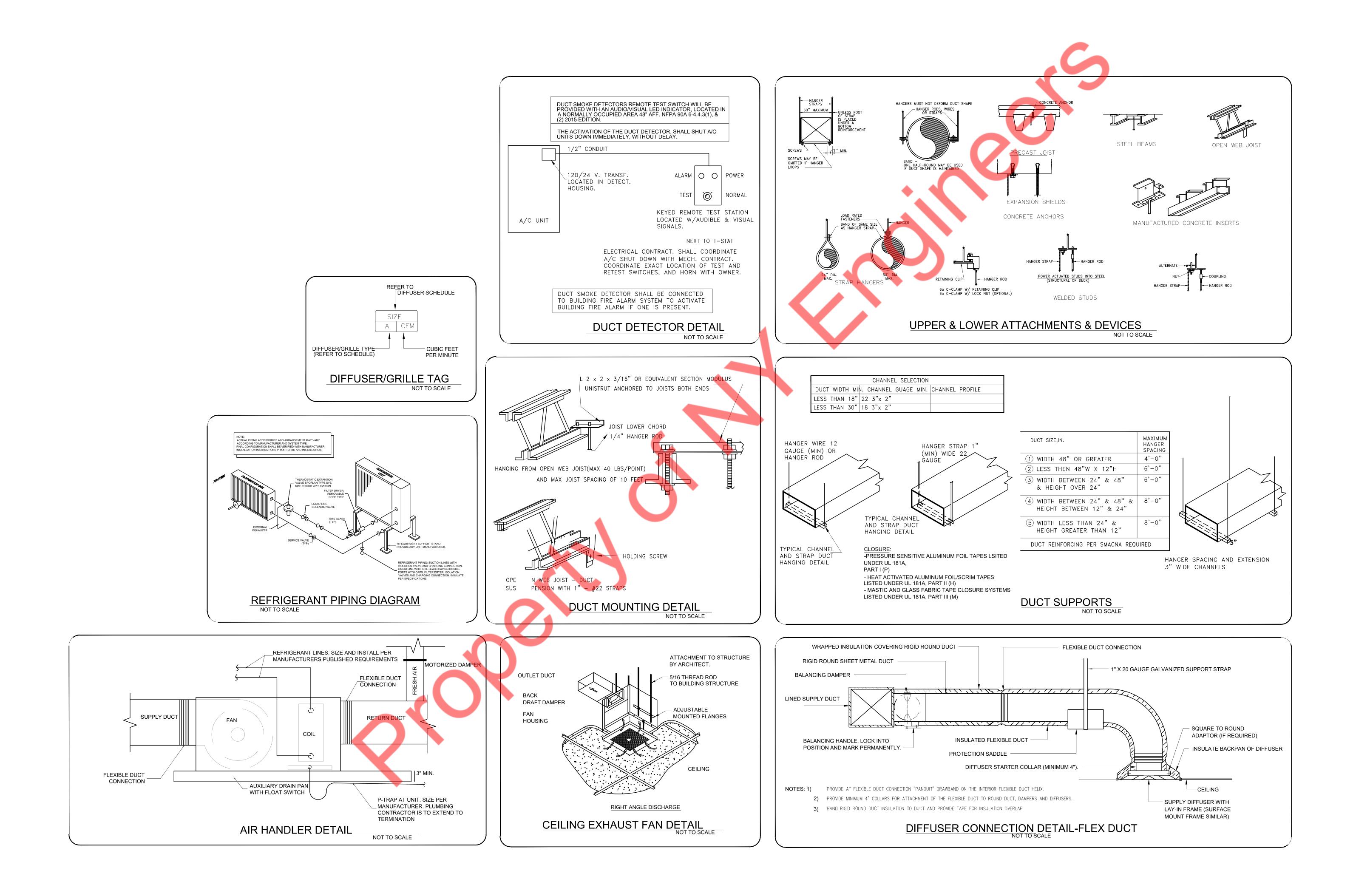
	SPLIT HEAT	PUMP UNIT SCH	HEDULES 🧹		FAN S	SCHEDI	JLE	
	А	.C-1	AC	-2	TAG	KEF-1	BEF-1	
TAGS	AHU-1	CU-1	AHU-2	CU-2				
STATUS	N	EW	NE	w	STATUS	NEW	NEW	
MANUFACTURER		ANE	TRA		QUANTITY	1	1	
	GAM5B0C48M41S				MANUFACTURER	GREENHECK	GREENHECK	
MODEL	B (OR EQUIVALENT)	4TWA4048A4000A (OR EQUIVALENT)	GAM5B0C48M41SB (OR EQUIVALENT)	4TWA4048A4000A (OR EQUIVALENT)	MODEL	SP-A410	SP-A90 70	
COOLING CAPACITY (TR)	4	-	4	-	CFM	330 @0.3" W.G. ESP	70 @0.3" W.G. ESP	
TOTAL COOLING BTU/HR	47	7000	470	00	AMPS	1.7	0.17	
HEATING CAPACITY	41	500	415	00	ACCESSORIES	BS,BDD	BDD,LITE KIT	
(BTU/HR) HSPF	-	8.20	_	8.20	WEIGHT (LBS)	31	12	
EER/SEER		12/14.5	-	12/14.5	VOLTAGE	115/1/60	115/1/60	
SUPPLY CFM	1:	586	158	36				
OUTSIDE AIR (CFM)	2	250	25	0				
SUPPLEMENTARY ELECTRIC HEATING (KW)	5.7	-	5.7	-				
FAN HP	3/4	-	3 / 4	-				
VOLTAGE/PHASE	208-230 / 1	460 / 3	208-230 / 1	460 / 3				
MCA(A)	42	9	42	9				
MOCP(A)	45	15	45	15				
LOCATION	MEZZANINE	SEE PLAN	MEZZANINE	SEE PLAN				
WEIGHT (LBS)	166	218	166	218				

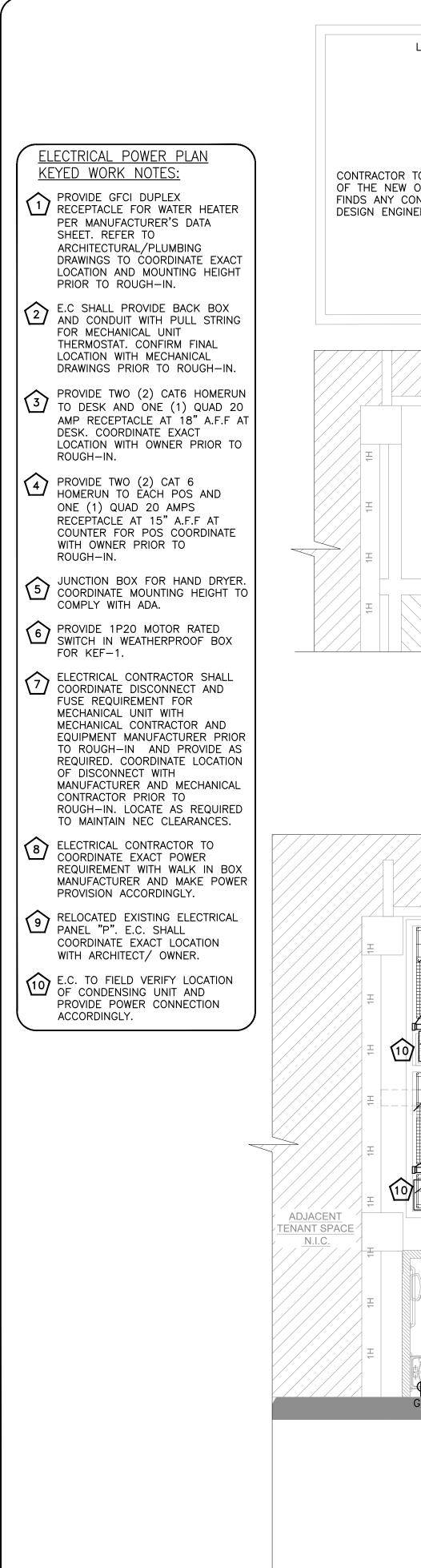


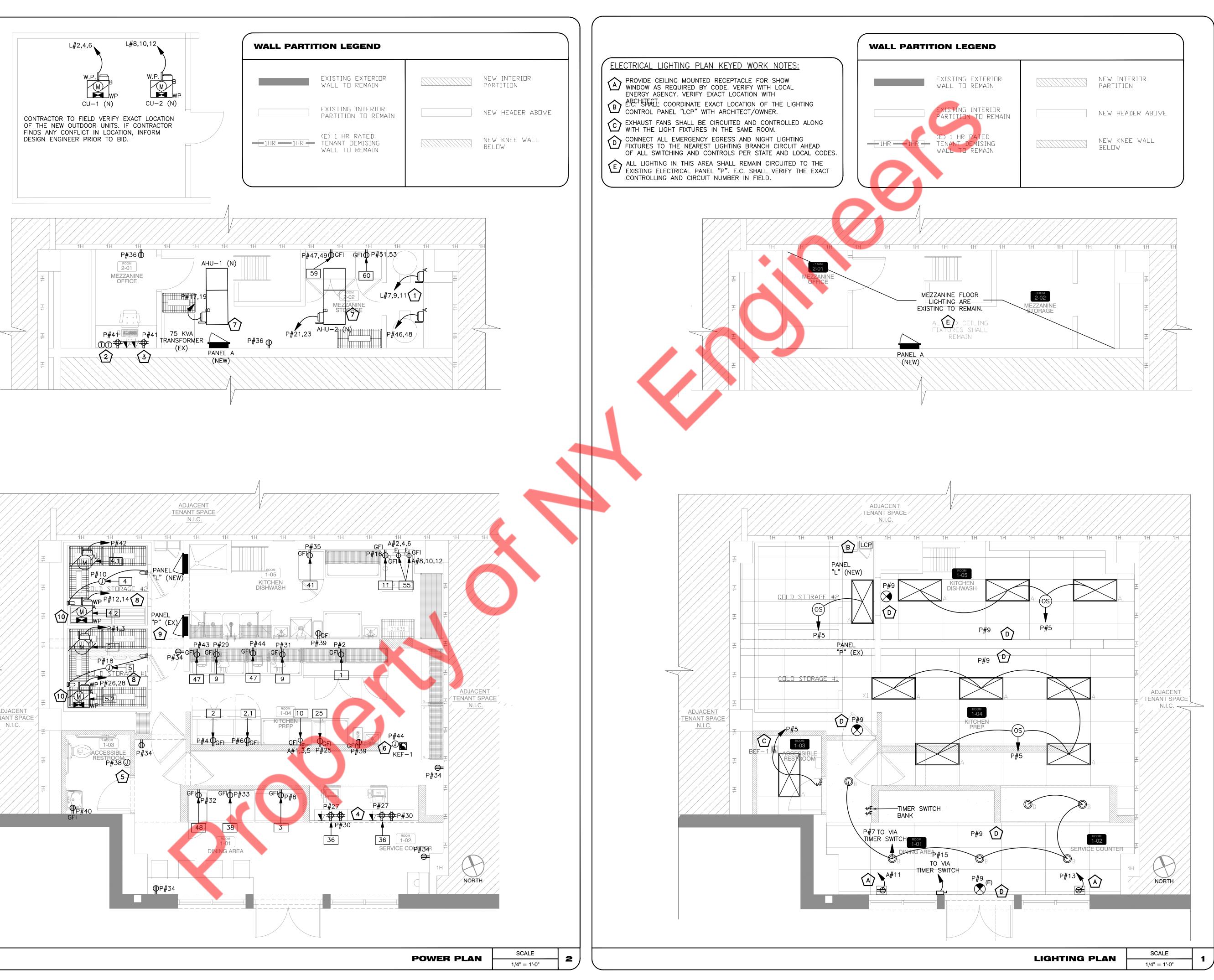


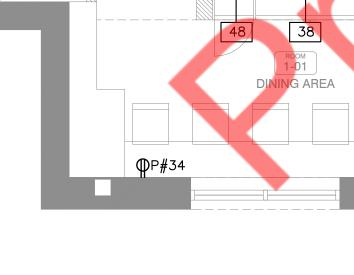
	2U-2 (N) 4.0 TR IGHT : 218 LBS		T-STAT FOR AHU-1 (N) AND AHU-2(N)	LOCATION OF INSTALL NEW UNITS LOCATION, VERIFY &	S C C C C C C C C C C C C C	HU-1 (I 4.0/TR
$\frac{1}{4^{"}} = 1^{L} 0^{"}$			ADJACENT		C12 SA DUCT (1586 CFM) GOING UP DRAGE #1 (2) (2) (2) (2) (2) (2) (2) (2) (2) (2)	vi∉ vi∉ (12" (N 24











### **SCOPE OF WORK**

USE THE NEW 200 AMP 480/277V - 3¢ SERVICE AND PANEL. PROVIDE ALL NECESSARY EQUIPMENT AND ALL WIRING AND LIGHTING FOR NEW RESTAURANT BUILDOUT INCLUDING WIRING FOR NEW KITCHEN EQUIPMENT. COORDINATE WITH G.C. FOR LOW VOLTAGE WIRING.

### **ELECTRICAL PLAN NOTES**

- ELECTRICAL CONTRACTOR SHALL REVIEW ALL DRAWINGS OF THIS SET.
- CONTRACTOR TO VERIFY THAT ALL EQUIPMENT SHOWN AS EXISTING MATCHES THE DESCRIPTIONS AND SPECIFICATIONS SHOWN ON DRAWINGS AND SCHEDULES. IF DIFFERENT, NOTIFY ARCHITECT/ENGINEER BEFORE BIDDING, ORDERING, OR PROCEEDING WITH WORK.
- ELECTRICAL CONTRACTOR SHALL SUPPLY AND INSTALL ALL NEW ELECTRICAL WORK INDICATED. CONSTRUCTION SHALL BE IN ACCORDANCE WITH DRAWINGS AND APPLICABLE SPECIFICATIONS. IF A PROBLEM IS ENCOUNTERED IN COMPLYING WITH THIS REQUIREMENT, CONTRACTOR SHALL NOTIFY THE OWNER OR HIS REPRESENTATIVE AS SOON AS POSSIBLE AFTER DISCOVERY OF THE PROBLEM AND SHALL NOT PROCEED WITH THAT PORTION OF THE WORK UNTIL OWNER HAS DIRECTED CORRECTIVE ACTION TO BE TAKEN.
- ELECTRICAL CONTRACTOR SHALL VISIT JOB SITE AND FAMILIARIZE HIMSELF WITH ALL CONDITIONS AFFECTING ELECTRICAL AND COMMUNICATIONS 36. ELECTRICAL CONTRACTOR SHALL LABEL ALL PANELS W/TYPE WRITTEN INSTALLATION AND MAKE PROVISIONS AS TO THE COST THEREOF. EXISTING DIRECTORIES. CONDITIONS OF ELECTRICAL EQUIPMENT, LIGHT FIXTURES, ETC... THAT ARE PART OF THE FINAL SYSTEM SHALL BE VERIFIED BY THE CONTRACTOR PRIOR TO SUBMITTING HIS BID.
- ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE 2020 EDITION 38. ALL LIGHT SWITCHES TO BE AT 42" A.F.F. OF THE NATIONAL ELECTRIC CODE AND ALL CODES AND ORDINANCES OF THE AUTHORITY HAVING JURISDICTION.
- DO NOT SCALE THE ELECTRICAL DRAWINGS. REFER TO ARCHITECTURAL PLANS AND ELEVATIONS FOR EXACT LOCATION FOR ALL EQUIPMENT. CONFIRM WITH OWNER'S REPRESENTATIVE.
- ALL ELECTRICAL NOT BEING REUSED MUST BE REMOVED IN ITS ENTIRETY. ALL CONDUIT IN OR UNDERGROUND OR IN CONCRETE MUST BE RIGID GALVANIZED STEEL.
- O. CIRCUIT BREAKERS AND PANELS TO BE BOLT ON TYPE
- 10. ALL EQUIPMENT SHALL BE APPROVED BY UL OR OTHER NATIONALLY RECOGNIZED TESTING COMPANY.
- 11. ALL RECEPTACLES SHALL BE GROUNDED AS REQUIRED BY NEC 250.146
- 12. SUBMIT SERVICE ENTRANCE EQUIPMENT FOR SEPARATE APPROVAL. 13. ALL LOW VOLTAGE MUST BE IN CONDUIT TO ABOVE THE DROP CEILING.
- BRIDAL RINGS OR "J" HOOKS REQUIRED. 14. SEPARATE PERMITS ARE REQUIRED FOR ALL LOW VOLTAGE SUCH AS TELEPHONE, DATA, THERMOSTAT, MUSIC, ALARMS ETC.
- 15. SEPARATE PERMIT REQUIRED FOR SIGNAGE.
- 16. PRIOR TO ANY CONSTRUCTION WORK BEGINNING AN ON-SITE MEETING WITH GENERAL CONTRACTORS IS REQUIRED. 17. ELECTRICIAN MUST BE ON SITE FOR ALL INSPECTIONS.
- 18. MINIMUM WIRE SIZE SHALL BE #12 A.W.G. EXCLUDING CONTROL WIRING. ALL | 47. GAS PIPING SHALL BE BONDED. CONDUCTORS SHALL BE COPPER AND UNLESS OTHERWISE NOTED THHN INSULATION.
- 19. OUTLET BOXES SHALL BE PRESSED STEEL IN DRY LOCATIONS, PLASTIC AND CAST ALLOY WITH THREADED HUBS IN WET OR DAMP LOCATIONS, AND SPECIAL ENCLOSURES FOR OTHER CLASSIFIED AREAS.
- 20. IT IS NOT THE INTENT OF THESE PLANS TO SHOW EVERY MINOR DETAIL OF CONSTRUCTION. THE CONTRACTOR IS EXPECTED TO FURNISH AND INSTALL 50. ALL ITEMS FOR A COMPLETE ELECTRICAL SYSTEM AND PROVIDE ALL REQUIREMENTS NECESSARY FOR EQUIPMENT TO BE PLACED IN PROPER
- WORKING ORDER. 21. ELECTRICAL SYSTEM SHALL BE COMPLETE AND EFFECTIVELY GROUNDED AS THE BUILDING OWNER.
- REQUIRED BY THE N.E.C. OR LOCAL CODES. 22. ALL MATERIALS SHALL BE NEW AND BEAR UNDERWRITERS' LABELS WHERE PATCHING AND FIRE CAULKING REQUIRED OF HIS WORK.
- APPLICABLE. 23. ALL WORK SHALL BE PERFORMED BY A LICENSED ELECTRICAL CONTRACTOR FLEXIBLE CONDUIT IS PERMITTED FOR SHORT FINAL CONNECTIONS ONLY IN A FIRST CLASS WORKMANLIKE MANNER. THE COMPLETED SYSTEM SHALL (6'-0" OR LESS). BE FULLY OPERATIVE AND ACCEPTED BY ENGINEER/ARCHITECT.
- 24. ALL WORK SHALL BE COORDINATED WITH OTHER TRADES TO AVOID INTERFERENCE WITH THE PROGRESS OF CONSTRUCTION.
- 25. ELECTRICAL CONTRACTOR SHALL GUARANTEE ALL MATERIALS AND YEAR FROM DATE THAT CERTIFICATE OF OCCUPANCY IS ISSUED.
- WARRANTY SHALL BE PROVIDED IN WRITING. PROVIDE COPY TO LL 26. CORRECTION OF ANY DEFECTS SHALL BE COMPLETED WITHOUT ADDITIONAL 56. ALL EQUIPMENT, DEVICES AND FIXTURES SHALL BE GROUNDED IN CHARGE AND SHALL INCLUDE REPLACEMENT OR REPAIR OF ANY OTHER PHASE OF THE INSTALLATION WHICH MAY HAVE BEEN DAMAGED THEREBY. 27. ALL REQUIRED INSURANCE SHALL BE PROVIDED FOR PROTECTION AGAINST
- PUBLIC LIABILITY AND PROPERTY DAMAGE FOR THE DURATION OF THE 28. CONTRACTOR SHALL PAY FOR ALL PERMITS, FEES, INSPECTIONS AND
- TESTING. CONTRACTOR TO OBTAIN PERMIT AND APPROVED SUBMITTALS PRIOR TO BEGINNING WORK OR ORDERING EQUIPMENT. 29. THE ELECTRICAL INSTALLATION SHALL MEET ALL STANDARD REQUIREMENTS
- OF POWER AND TELEPHONE COMPANIES.
- 30. CONTRACTOR SHALL COORDINATE WITH MECHANICAL DRAWINGS AND PROVIDE ALL NECESSARY CONTROL WIRING.
- 31. ALL CIRCUIT BREAKERS FEEDING MECHANICAL EQUIPMENT SHALL BE HACR | 61. PANEL PHASE LOADS TO BE BALANCED WITHIN 10%.

#### TYPE CIRCUIT BREAKERS.

- 32. PROVIDE AND INSTALL CONDUIT, CONDUCTORS, PULL WIRES, BOXES, COVER PLATES, DEVICES, ETC. FOR ALL OUTLETS AS INDICATED. 33. MATERIALS, PRODUCTS, AND EQUIPMENT, INCLUDING ALL COMPONENTS
- THEREOF, SHALL BE NEW AND SUCH AS APPEAR ON THE UL LIST OF APPROVED ITEMS AND SHALL MEET OR EXCEED THE REQUIREMENTS OF N.E.C. NEMA, AND IECE.
- 34. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS OR CUT SHEETS OF LIGHTING FIXTURES, SWITCHES, AND OTHER ELECTRICAL ITEMS FOR APPROVAL BY ENGINEER/ARCHITECT.
- 35. ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR ALL CUTTING, PATCHING AND FIRED CAULKING REQUIRED OF HIS WORK.
- ALL ELECTRICAL AND COMMUNICATIONS OUTLETS TO BE AT 24" A.F.F. UNLESS NOTED OTHERWISE, AND VERTICALLY MOUNTED.
- 39. ALL ELECTRICAL WIRING SHALL BE THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR. ALL ELECTRICAL WIRING FOR HVAC SYSTEM INCLUDING CONTROLS, THERMOSTATS, POWER, ETC. SHALL BE THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR.
- 40. BREAKER AND PANELS -- ALL CURRENT CARRYING BUSSES SHALL BE COPPER. ALL GROUND BUS BARS SHALL BE COPPER. PANEL BOARD ENCLOSURES SHALL BE FURNISHED WITHOUT PRE-PUNCHED CONCENTRIC HOLES. A.I.C. RATINGS SHALL BE AS INDICATED ON PANEL BOARD SCHEDULES.
- 41. DISCONNECT SWITCHES SHALL BE H.P. RATED, GENERAL DUTY, QUICK-MAKE, QUICK-BREAK ENCLOSURES AS REQUIRED BY EXPOSURE.
- 42. MOTOR STARTERS SHALL BE MANUAL OR MAGNETIC, WITH OVERLOAD RELAYS IN EACH HOT LEG.
- 43. THE TERM "PROVIDE" USED IN THE CONSTRUCTION DOCUMENTS AND SPECIFICATIONS INDICATES THE CONTRACT SHALL FURNISH AND INSTALL.
- 44. CONTRACTOR SHALL CONFIRM WITH ANY AND ALL REQUIREMENTS SUCH AS: LUG SIZE RESTRICTIONS, CONDUIT ENTRY, TRANSFORMER SIZE, SCHEDULED DOWN TIME FOR OWNERS CONFIRMATION. ETC. ANY CONFLICTS SHALL BE BROUGHT TO ATTENTION OF THE ENGINEER BEFORE PROCEEDING WITH ANY WORK.
- 45. VOLTAGE DROP FOR ALL BRANCH CONDUCTORS SHALL NOT EXCEED 3%. WHERE VOLTAGE DROP EXCEEDS 3%, CONTRACTOR SHALL INCREASE SIZE OF CONDUCTORS.
- 46. CONTRACTOR SHALL PROVIDE GFI TYPE BREAKER FOR ALL EXTERIOR 120V CIRCUITS OR GFI PROTECTION -- FOR THE WHOLE CIRCUIT.
- 48. ELECTRICAL CONTRACTOR SHALL COORDINATE SERVICE ENTRY WITH SERVICE PROVIDER PRIOR TO DETERMINING EXACT LOCATION OF THE METER BOX IN ORDER TO AVOID DISCREPANCIES BETWEEN DRAWINGS AND JOB CONDITIONS.
- 49. ALL OUTDOOR EQUIPMENT SHALL BE WEATHERPROOF.
- CONSTRUCTION "AS BUILT" DRAWINGS AND DOCUMENTS SHALL BE PROVIDED TO THE OWNER WITHIN 30 DAYS AFTER THE DATE OF ACCEPTANCE. PROVIDE A COPY TO LL.
- 51. OPERATION MANUALS AND MAINTENANCE MANUALS SHALL BE PROVIDED TO
- 52. ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR ALL CUTTING,
- 53. ABSOLUTELY NO FLEXIBLE CONDUIT IS PERMITTED IN DEMISING WALLS.
- 54. EXPOSED CONDUIT SHALL BE INSTALLED IN STRAIGHT LINES, PARALLEL OR IN RIGHT ANGLES TO THE BUIDING STRUCTURE. DO NOT LOOP EXCESS FLEXIBLE CONDUIT IN CEILING SPACE OR WALL CAVITY. NO CONDUIT TO BE SUPPORTED FROM THE ROOF DECK.
- WORKMANSHIP FREE FROM DEFECTS FOR A PERIOD OF NOT LESS THAN ONE 55. CABLE TYPES AC AND NM CABLES ARE NOT ACCEPTABLE. TYPE MC CABLE, ELECTRIC METALLIC TUBING (EMT) AND RIGID GALVANIZED CONDUIT ARE PERMITTED.
  - COMPLIANCE WITH NEC AND UL REQUIREMENTS.
  - 57. ALL PANELS TO BE UL LABELED WITH BOLT-ON TYPE CIRCUIT BREAKERS 58. 7-DAY 24-HOUR TIME CLOCK IS REQUIRED TO CONTROL STOREFRONT ENTRY LIGHTS, SHOW WINDOW LIGHTS, SHOW WINDOW RECEPTACLES AND STOREFRONT SIGNAGE. ILLUMINATED STOREFRONT SIGNS MUST REMAIN
  - 59. TENANT IS REQUIRED TO MAKE A FIELD SURVEY OF THE EXISTING ELECTRICAL SERVICE TO ENSURE THAT THE TOTAL CONNECTED LOAD DOES NOT EXCEED THE ELECTRIC SERVICE. ANY/ALL MODIFICATIONS OR UPGRADES NEEDED ARE SUBJECT TO LANDLORD'S PRIOR APPROVAL AND WILL BE COMPLETED BY TENANT/TENANT'S GC AT TENANT'S SOLE EXPENSE.
  - 60. ALL ELECTRICAL PANELS TO BE MOUNTED ON PLYWOOD BACKER BOARD.

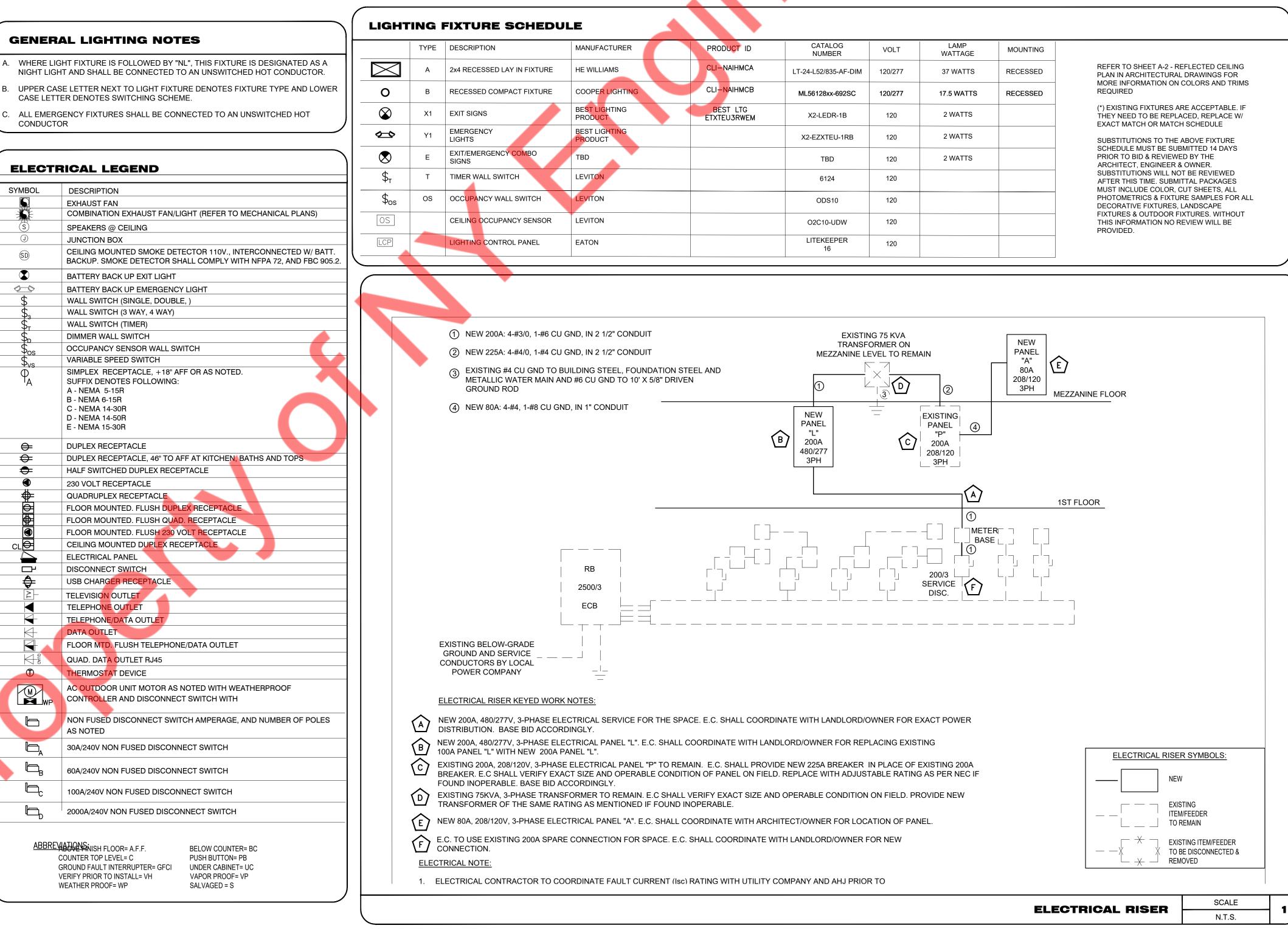
LIT DURING ALL MALL BUSINESS HOURS.

# **GENERAL LIGHTING NOTES**

### CONDUCTOR

ELECTR	RICAL I
SYMBOL	DESCRIPT
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	BACKUP. S
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	BATTERY E
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S <sub>T</sub>	WALL SWIT
<u> </u>	DIMMER W
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\$ <sub>vs</sub>	SIMPLEX F
Ψ <sub>A</sub>	SUFFIX DE
/ \	A - NEMA
	B - NEMA 6
	C - NEMA 1 D - NEMA 1
	E - NEMA 1
₽	DUPLEX RE
— ĕ	DUPLEX RE
<del>`</del>	HALF SWIT
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Ŀ,	60A/240V N
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	2000A/240
ABBRFV	ATIONS

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COUNTER TOP
GROUND FAUL
VERIFY PRIOR





LOG BER	VOLT	LAMP WATTAGE	MOUNTING	
35-AF-DIM	120/277	37 WATTS	RECESSED	REFER TO SHEET A-2 - REFLECTED CEILING PLAN IN ARCHITECTURAL DRAWINGS FOR MORE INFORMATION ON COLORS AND TRIMS
x-692SC	120/277	17.5 WATTS	RECESSED	REQUIRED
DR-1B	120	2 WATTS		(*) EXISTING FIXTURES ARE ACCEPTABLE. IF THEY NEED TO BE REPLACED, REPLACE W/ EXACT MATCH OR MATCH SCHEDULE
EU-1RB	120	2 WATTS		SUBSTITUTIONS TO THE ABOVE FIXTURE
3D	120	2 WATTS		SCHEDULE MUST BE SUBMITTED 14 DAYS PRIOR TO BID & REVIEWED BY THE ARCHITECT, ENGINEER & OWNER.
24	120			SUBSTITUTIONS WILL NOT BE REVIEWED AFTER THIS TIME. SUBMITTAL PACKAGES MUST INCLUDE COLOR. CUT SHEETS. ALL
S10	120			PHOTOMETRICS & FIXTURE SAMPLES FOR AL DECORATIVE FIXTURES, LANDSCAPE
-UDW	120			FIXTURES & OUTDOOR FIXTURES. WITHOUT THIS INFORMATION NO REVIEW WILL BE PROVIDED.
EPER 6	120			

A. ALL CIRCUITING SHOWN IS FOR REFERENCE PURPOSE ONLY. E.C. SHALL VERIFY CIRCUITING OF THE EXISTING DEVICES IN FIELD AND INFORM ENGINEER FOR DISCREPANCIES.
 B. ELECTRICAL CONTRACTOR TO VERIFY THE EXACT PANEL SIZES AND INCOMING FEEDER SIZE.

PANEL SCHEDULE KEYED WORK NOTES:

C ELECTRICAL CONTRACTOR SHALL PROVIDE NEW 50A/2P BREAKER IN PLACE OF EXISTING 30A/2P BREAKER.

PANEL: P (EX) 208Y/120 VOLTS, 3 PHASE, 4 WIRE 225A A MAIN CB MIN, BUS 225A PER PHASE (KVA) LOAD LOAD MINIMUM BRANCH MINIMUM BRANCH LOAD LOAD TRIP CKT NO. DESCRIPTION OF LOAD AMPS TYPE (KVA) (KVA) TYPE CIRCUIT CIRCUIT A B C 2#12, #12G, 3/4"C 0.75 E 0.05  $^{\circ}\mathcal{P}$  FREEZER EVAPORATOR COIL 0.80 2#12, #12G, 3/4"C 0.05 2#12, #12G, 3/4"C 0.30 E 3 0.35 20 LIGHTING BOH 2#12, #12G, 3/4"C 0.30 E 0.40 2#12, #12G, 3/4"C 0.70 5 2#12, #12G, 3/4"C 0.76 E 20 LIGHTING FOH 0.20 2#12, #12G, 3/4"C 0.96 7 0.10 2#12, #12G, 3/4"C 2#12, #12G, 3/4"C 0.81 E 20 LIGHTING EXIT SIGN 9 0.91 20 WINDOW RECEPTACLES 1.70 2#12, #12G, 3/4"C R 3.67 1.97 E 11 2#12, #12G, 3/4"C 20 WINDOW RECEPTACLES 1.70 2#12, #12G, 3/4"C 3.67 1.97 E 13 R 2#12, #12G, 3/4"C 0.40 E 20 EXTERIOR SIGN 1.20 2#12, #12G, 3/4"C 1.60 15 2#12, #12G, 3/4"C 0.81 E 17 5.17 н 4.36 ŝ AHU-1 B 2#8, #10G, 3/4"C 19 4.36 Н 4.36 H 4.36 21 4.36 AHU-2 C ŝ 2#8, #10G, 3/4"C 23 Н 4.36 4.36 20 FOOD PAN WARMER 1.15 2#12, #12G, 3/4"C 2.71 E 1.56 E 25 2#12, #12G, 3/4"C 20 POS - RECEPTACLE 0.72 2#12, #12G, 3/4"C R 2.28 1.56 E 27 0.75 2#12, #12G, 3/4"C 2#12, #12G, 3/4"C 0.72 R 15 SLICER 1.47 29 E 2#12, #12G, 3/4"C 1.27 E 15 SLICER 0.75 2#12, #12G, 3/4"C 2.02 31 20 REFRIGERATOR 1.26 2#12, #12G, 3/4"C 2#12, #12G, 3/4"C 0.90 R 2.16 33 1.03 2#12, #12G, 3/4"C 2#12, #12G, 3/4"C 0.36 R 35 20 REACH IN REFRIGERATOR 1.39 2#12, #12G, 3/4"C 0.55 E 20 RESERVED FOR MEZ. LIGHTING EXISTING 37 0.55 0.36 2#12, #12G, 3/4"C 20 RECEPTACLE - TRASH 2#12, #12G, 3/4"C 0.18 R 39 0.54 R 20 RECEPTACLE MEZZANINE 2#12, #12G, 3/4"C 0.10 E 0.72 2#12, #12G, 3/4"C 41 R 0.82 0.02 2#12, #12G, 3/4"C 0.22 2#12, #12G, 3/4"C 0.20 15 SCALE 43 15 SCALE 0.02 2#12, #12G, 3/4"C 2.27 45 2#10, #10G, 3/4"C 47 0.10 2.35 2.25 H 0 REACH IN REFRIGERATOR 2#12, #12G, 3/4"C 49 0.10 6.94 3#4, #8G, 1"C 6.94 51 0.10 Ε 6.84 20 2#12, #12G, 3/4"C REACH IN FREEZER 53 Ŷ 0.10 6.94 E TOTAL LOAD (KVA) 22.23 21.41 26.86

PANEL BOARD SCHEDULE:

PANEL SCHEDULE GENERAL NOTES:

# KITCHEN EQUIPMENT SCHEDULE:

ITEM NO.	DESCRIPTION	VOLTAGE	PHASE	AMPS	kW
1	PIZZA TABLE	115	1	6.5	0.75
2	SANDWICH TABLE	115	1	2.6	0.30
2.1	HOT FOOD PAIN	115	1	2.6	0.30
3	OPEN MERCHENDIZER	115	1	6.6	0.76
4	WALK IN COOLER	115	1	7	0.81
4.1	EVAPORATOR COIL	115	1	0.8	0.09
4.2	REMOTE CONDENSING UNIT	208	1	19	3.95
5	WALK IN FREEZER	115	1	7	0.81
5.1	FREEZER EVAPORATOR COIL	208	1	0.5	0.10
5.2	REMOTE CONDENSING UNIT	208	1	15	3.12
9	SLICER	115	1	3.52	0.40
10	MICRO CONVECTION	208	3	24	8.65
11	OVENSTEAMER	115	1	3.33	0.38
25	FOOD PAN WARMER	115	1	10	1.15
36	POS UNIT	115	1	2	0.23
38	REFRIGERATOR	115	1	11 💧	1.27
41	REACH IN REFRIGERATOR	115	1	9	1.04
47	SCALE	115	1	0.1	0.01
48	REFRIGERATOR, REACH IN LIPTON	115	1	11	1.27
55	OVEN STEAMER ULTRA VENT	208	3	16.5	5.94
59	REACH IN REFRIGERATOR	208	1	1	0.21
60	REACH IN FREEZER	208	1	1	0.21

 MOUNTING:	SURFA	CF .	
			<u> </u>
 DESCRIPTION OF L	OAD	TRIP AMPS	CKT NO.
PIZZA TABLE		20	2
SANDWICH TABLE		20	4
HOT FOOD PAN		20	6
OPEN MERCHENDIZER		20	8
WALK IN COOLER		20	10
 REMOTE CONDENSING UNI		20	12
	28.20	14	
 OVENSTEAMER		20	16
WALK IN FREEZER		20	18
SPARE		20	20
SPARE		20	22
SPARE		20	24
 REMOTE CONDENSING UNI	T FREEZER	28:20	26 28
POS - RECEPTACLE		20	30
REFRIGERATOR - REACH IN	LIPTON	20	32
 RECEPTACLE		20	34
RECEPTACLE - MEZZANINE		20	36
HAND DRYER		20	38
RECEPTACLE RESTROOM		20	40
EVAPORATOR COIL COOLER		15	42
KEF-1		20	44
WATER HEATER (EX)		20	46
		22:30	48
			50
PANEL "A"		3P-80	52
			54

PANEL:	L (NEW)			-											MOUNTING:	SURF	ACE	
480Y/277	VOLTS,		3	PHASE,			4	WIRE										
•																		
MAIN CB	200A			BUS	225A		MIN,			-								
	TRIP		DESCRIPTIO		LOAD	LOAD	MINIMUM BRANCH	PE	R PHASE (	(VA)	MINIMUM BRANCH	LOAD	LOAD		DESCRIPTION OF		TRIP	СКТ
CKT NO.	AMPS		DESCRIPTIO	N OF LOAD	TYPE	(KVA)	CIRCUIT	А	В	С	CIRCUIT	(KVA)	TYPE		DESCRIPTION OF	LUAD	AMPS	NO.
1					E	23.50		25.90				2.40	Н					2
3	38-225	PANEL 'P'	(EX) VIA TRA	ANSFROMER (EX)	E	23.50	3#1, #6G, 1 1/4"C		25.90		3#12, #12G, 3/4"C	2.40	Н	CU-1			న	4
5	38				E	23.50				25.90		2.40	Н				38-15	6
7	· ·				Н	6.00		8.40				2.40	Н					8
9	20	WATER HE	EATER (EX)		Н	6.00	3#10 <i>,</i> #10G, 3/4"C		8.40		3#12, #12G, 3/4"C	2.40	Н	CU-2			స	10
11	38-30				Н	6.00				8.40		2.40	Н				38-15	12
13		SPACE						0.00						SPARE			20	14
15		SPACE							0.00					SPARE			20	16
17		SPACE								0.00				SPARE			20	18
19		SPACE						0.00						SPACE				20
21		SPACE							0.00					SPACE				22
23		SPACE								0.00				SPACE				24
					TOTAL	LOAD (K	VA)	34.30	34.30	34.30								
PANEL:	A (NEW)											1			MOUNTING:	SURF	ACE	
208Y/120	VOLTS,		3	PHASE,			4	WIRE										
MAIN CB	80A			BUS	125A		MIN,											
CKT NO.	TRIP AMPS		DESCRIPTIO	N OF LOAD	LOAD TYPE	LOAD (KVA)	MINIMUM BRANCH CIRCUIT		ER PHASE (		MINIMUM BRANCH CIRCUIT	LOAD (KVA)	LOAD TYPE		DESCRIPTION OF	LOAD	TRIP AMPS	CKT NO.
	Alvir 5						Сілсон	A	В	C	CIRCOTI						Alvir 3	
1	-				E	2.88		4.86				1.98	E			u <del>T</del>		2
3	38 <sup>-30</sup>		ONVECTION		E	2.88	3#10, #10G, 3/4"C		4.86		3#10, #10G, 3/4"C	1.98	E	UVEN S	TEAMER ULTRA VEI	NI	38.30	4
5	<u>```</u>				E	2.88				4.86	-	1.98	E				<u>ઝ</u> `	
7	-	SPACE					-	1.98				1.98	E					8
9	-	SPACE					-		1.98		3#10, #10G, 3/4"C	1.98	E	OVEN S	TEAMER ULTRA VEI	NE	38 <sup>.30</sup>	10
11		SPACE								1.98		1.98	E				<u>ઝ</u> ॅ	
13		SPACE						0.00						SPACE				14
15		SPACE							0.00					SPACE				16
17		SPACE								0.00				SPACE				18
					TOTAL	LOAD (K	VA)	6.84	6.84	6.84								



#### **PLUMBING NOTES**

- ALL WORKMANSHIP AND MATERIALS SHALL BE IN STRICT ACCORDANCE WITH APPLICABLE LOCAL CODES, RULES AND ORDINANCES. PLUMBING CONTRACTOR SHALL REVIEW ALL DRAWINGS OF THIS SET. CONTRACTOR TO VERIFY THAT ALL EQUIPMENT SHOWN AS EXISTING MATCHES THE DESCRIPTIONS AND SPECIFICATIONS SHOWN ON DRAWINGS AND SCHEDULES. IF DIFFERENT NOTIFY ARCHITECT/ENGINEER BEFORE BIDDING, ORDERING OR PRECEDING WITH WORK ALL EQUIPMENT WHICH IS TO REMAIN MUST BE REFURBISHED TO A LIKE NEW CONDITION. PLUMBING CONTRACTOR SHALL VISIT THE JOB SITE AND THOROUGHLY FAMILIARIZE HIMSELF WITH ALL EXISTING CONDITIONS. ALL MATERIALS SHALL BE NEW. ALL WATERIALS SHALL BE NEW. ALL WORK SHALL BE PERFORMED BY A LICENSED PLUMBING CONTRACTOR IN A FIRST CLASS WORKMANLIKE MANNER. THE COMPLETED SYSTEM SHALL BE FULLY OPERATIVE. ALL EXCAVATION AND BACKFILL AS REQUIRED
- FOR THIS PHASE OF CONSTRUCTION SHALL BE A PART OF THIS CONTRACT. REQUIRED INSURANCE SHALL BE PROVIDED BY THE PLUMBING CONTRACTOR FOR PROTECTION AGAINST
- PUBLIC LIABILITY AND PROPERTY DAMAGE FOR THE DURATION OF THE WORK. PLUMBING CONTRACTOR SHALL SECURE AND PAY FOR ALL PERMITS, FEES, INSPECTION AND TESTS. PLUMBING CONTRACTOR TO OBTAIN PERMIT AND APPROVED SUBMITTALS PRIOR TO BEGINNING WORK OR ORDERING EQUIPMENT. PLUMBING CONTRACTOR MUST BE PRESENT FOR ALL INSPECTIONS OF HIS WORK BY REGULATORY AUTHORITIES. DRAWINGS ARE DIAGRAMMATIC. DO NOT SCALE FOR THE EXACT LOCATION OF FIXTURES, PIPING, EQUIPMENT,
- ALL WORK SHALL BE COORDINATED WITH OTHER TRADES TO AVOID INTERFERENCE WITH THE PROGRESS OF CONSTRUCTION. REPORT ANY DISCREPANCY TO ENGINEER/ARCHITECT PRIOR TO BEGINNING CONSTRUCTION. 1. VERIFY LOCATION, SIZE, DIRECTION OF FLOW AND INVERTS OF ALL EXISTING UTILITIES PRIOR TO BEGINNING OF CONSTRUCTION. ÁDVISE ENGINEER OF ANY DISCREPANCIES. 2. EXPOSED WATER PIPING SHALL BE TYPE "L" COPPER FOR 2" AND UNDER. WATER PIPING IN WALLS AND UNDERGROUND MAY BE "PEX" TYPE PIPING THAT MEETS ANSI/NSF STANDARD 61.
- 3. SOIL, WASTE, VENT AND RAINWATER PIPING SHALL BE PVC BUT MAY NOT RUN THRU RATED ASSEMBLIES OR IN PLENUMS 14. ALL FIXTURES MUST BE PROVIDED WITH READILY ACCESSIBLE STOPS AND APPROPRIATELY MARKED ACCESS PANELS. COORDINATE LOCATIONS WITH GENERAL CONTRACTOR PRIOR TO INSTALLATION.
- 15. FURNISH AND INSTALL APPROVED AIR CHAMBERS AT EACH PLUMBING FIXTURE GROUP AS PER CODE AND WITH GOOD ENGINEERING PRACTICE.
- L6. DIELECTRIC COUPLINGS ARE REQUIRED BETWEEN ALL DISSIMILAR METAL IN PIPING AND EQUIPMENT CONNECTIONS; EXCEPT AT WATER HEATER AS PER CODE.
- 7. ISOLATE COPPÉR PIPE FROM HANGER OR SUPPORTS WITH ISOLATOR PAD. 18. ALL FIRE RATED FLOOR AND WALL PENETRATIONS SHALL BE PROPERLY PROTECTED FROM FIRE. SMOKE AND ALL FIRE RATED FLOOR AND WALL PENETRATIONS SHALL BE PROPERTY PROTECTED FROM FIRE, SMOKE AND WATER PENETRATION BY FILLING VOIDS BETWEEN PIPE AND WALL/FLOOR SLEEVES WITH FIRE RATED FOAM, TO ACHIEVE THE SAME RATING AS WALLS OR FLOORS AS PART OF THE PLUMBER'S WORK.
   PLUMBING CONTRACTOR SHALL GUARANTEE ALL MATERIALS AND WORKMANSHIP FREE FROM DEFECTS FOR A PERIOD OF NOT LESS THAN ONE (1) YEAR FROM DATE OF CERTIFICATE OF OCCUPANCY. CORRECTION OF ANY DEFECTS SHALL BE COMPLETED WITHOUT ADDITIONAL CHARGE WITHIN 72 HOURS OF NOTIFICATION AND SHALL INCLUDE PEDIACEMENT OF PERIOD OF ANY OTHER PHASE OF THE INSTALLATION WHICH MAX HAVE
- SHALL INCLUDE REPLACEMENT OR REPAIR OF ANY OTHER PHASE OF THE INSTALLATION WHICH MAY HAVE BEEN DAMAGED. PROVIDE COPY TO LL. 0. STUDOR MINI/MAXI AIR ADMITTANCE VALVES MAY NOT BE USED AS AN ALTERNATE TO VENT PIPING THRU
- 21. PROVIDE CHROME PLATED COMBINATION COVER PLATE AND CLEAN OUT PLUG OR ACCESS PANEL FOR ALL
- CLEANOUTS. 22. NO COMBUSTIBLE MATERIAL TO BE USED IN MECHANICAL ROOMS OR IN CEILING SPACES WHERE USED AS RETURN AIR PLENUMS.
- 23. NO WATER, SANITARY OR DRAINAGE PIPING PERMITTED IN ELECTRICAL OR ELEVATOR EQUIPMENT ROOMS. 24. WATER PIPING INSULATION SHALL BE 1" THICK ARMAFLEX INSTALLED IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS FOR ALL HOT WATER PIPING. WHERE DOMESTIC WATER TEMPERATURES CAN CAUSE SWEATING, ALL COLD WATER PIPING SHALL BE INSULATED WITH 1/2" THICK ARMAFLEX
- INSULATION INSULATION.
  25. CONDENSATE DRAIN LINES TO BE RUN UNDER SLAB IN PVC SCH40 PIPE AND STUBBED OUT OF WALL TO UNIT. TIE-IN OF A/C TO BE BY OTHERS. PVC PIPING WITH 1/2" THICK ARMAFLEX INSULATION MAY BE USED IN LOCATIONS WHERE ALLOWED BY LOCAL CODES. SEE PLUMBING DRAWINGS FOR SIZE AND LOCATION OF PIPING. PVC WILL BE MIN. SCHEDULE 40 FOR SIZE AND LOCATION OF PIPING. PVC WILL BE MIN. SCHEDULE 40.
  26. PROVIDE ANGLE STOPS ON ALL WATER SERVICE LINES TO FIXTURES FOR INDIVIDUAL SHUT-OFF.
  27. NO JOINTS UNDERGROUND FOR COPPER.
  28. PLUMBING FIXTURES SHALL COMPLY WITH IPC.
  29. WATER HAMMER ARRESTORS AS PER IPC
- 9. WATER HAMMER ARRESTORS AS PER IPC.
- WATER HAMINER ARRESTORS AS FER IFC.
   PLUMBING CONTRACTOR TO PROVIDE ANTI-SCALDING VALVE FOR TUBS AND SHOWERS.
   PLUMBING CONTRACTOR SHALL REVIEW ALL BID DOCUMENTATION.
   PLUMBING CONTRACTOR SHALL REVIEW WALL FINISHES @ LOCATION REQUIRING BARRIER-FREE COMPLIANCE
- (EXAMPLE: CENTER LINE TO TOILET). 33. CONSTRUCTION "AS BUILT" DRAWINGS AND DOCUMENTS SHALL BE PROVIDED TO THE OWNER WITHIN 30 DAYS AFTER THE DATE OF ACCEPTANCE. PROVIDE A COPY TO LL.
- 34. OPERATION MANUALS AND MAINTENANCE MANUALS SHALL BE PROVIDED TO THE BUILDING OWNER. PROVIDE 35. AS PER IPC, ALL PLUMBING FIXTURES SHALL BE PROVIDED WITH BACKFLOW PREVENTION AND
- CONTAMINATION PROVISION OF THE WATER SUPPLY SYSTEM.
- \_\_\_\_\_

# **EXISTING CONTIDITONS NOTES**

#### STOP AND READ

THE CONTRACTOR AND SUB-CONTRACTORS SHALL NOT INITIATE ANY WORK UNTIL EXISTING FIELD CONDITIONS ARE PROPERLY VERIFIED. THIS SHALL HOLD TRUE FOR FIRST GENERATION AND 2ND GENERATION SPACES. WHEN DEMOLITION IS REQUIRED, THAT WILL BE PERMITTED TO EXPOSE CONDITIONS. THESE VERIFICATIONS SHALL INCLUDE BUT NOT LIMITED TO: DIMENSIONS BOTH HORIZONTALLY AND VERTICAL. ELECTRICAL SERVICE /PANELS LOCATION AND VOLTS/PHASE, LOCATION/QTY OF ROOF MOUNTED HVAC EQUIPMENT, CONFIRM THAT INTERIOR HVAC HUNG UNITS HAVE PROPER SUPPORT CONNECTIONS FOR EXISTING STRUCTURE, FIRE SPRINKLER MAIN RUNS, TOILET ROOM DIMENSIONS, DOOR SWING FOR DOORS TO REMAIN AND ETC. IF NOT VERIFIED AND DISCOVERED AT A LATER TIME, THE CONTRACTOR SHALL REIMBURSE THE ARCHITECT FOR THE REDESIGN FEE. THIS DOES NOT INCLUDE HIDDEN WORK I.E. PITCH OF SANITARY LINES, ACTUAL CONDITIONS OF EXISTING HVAC EQUIPMENT, STRUCTURAL COLUMNS/BEARING WALLS OR CONDITIONS OF GREASE INTERCEPTORS AND ETC.

# **ENERGY CONSERVATION NOTES**

- AS PER 2018 NORTH CAROLINA ENERGY CONSERVATION CODE , C404.4, PIPING FROM A WATER HEATER TO THE TERMINATION OF HEATED WATER FIXTURE SUPPLY PIPE SHALL BE INSULATED IN ACCORDANCE WITH TABLE C403.11.3 OF MINIMUM PIPE INSULATION THICKNESS.
- 2. AS PER 2018 NORTH CAROLINA ENERGY CONSERVATION CODE, WATER HEATING EQUIPMENT AND HOT WATER STORAGE TANKS SHALL MEET THE REQUIREMENTS OF TABLE C404.2. THE EFFICIENCY SHALL BE VERIFIED THROUGH THE DATA FURNISHED BY THE MANUFACTURER.

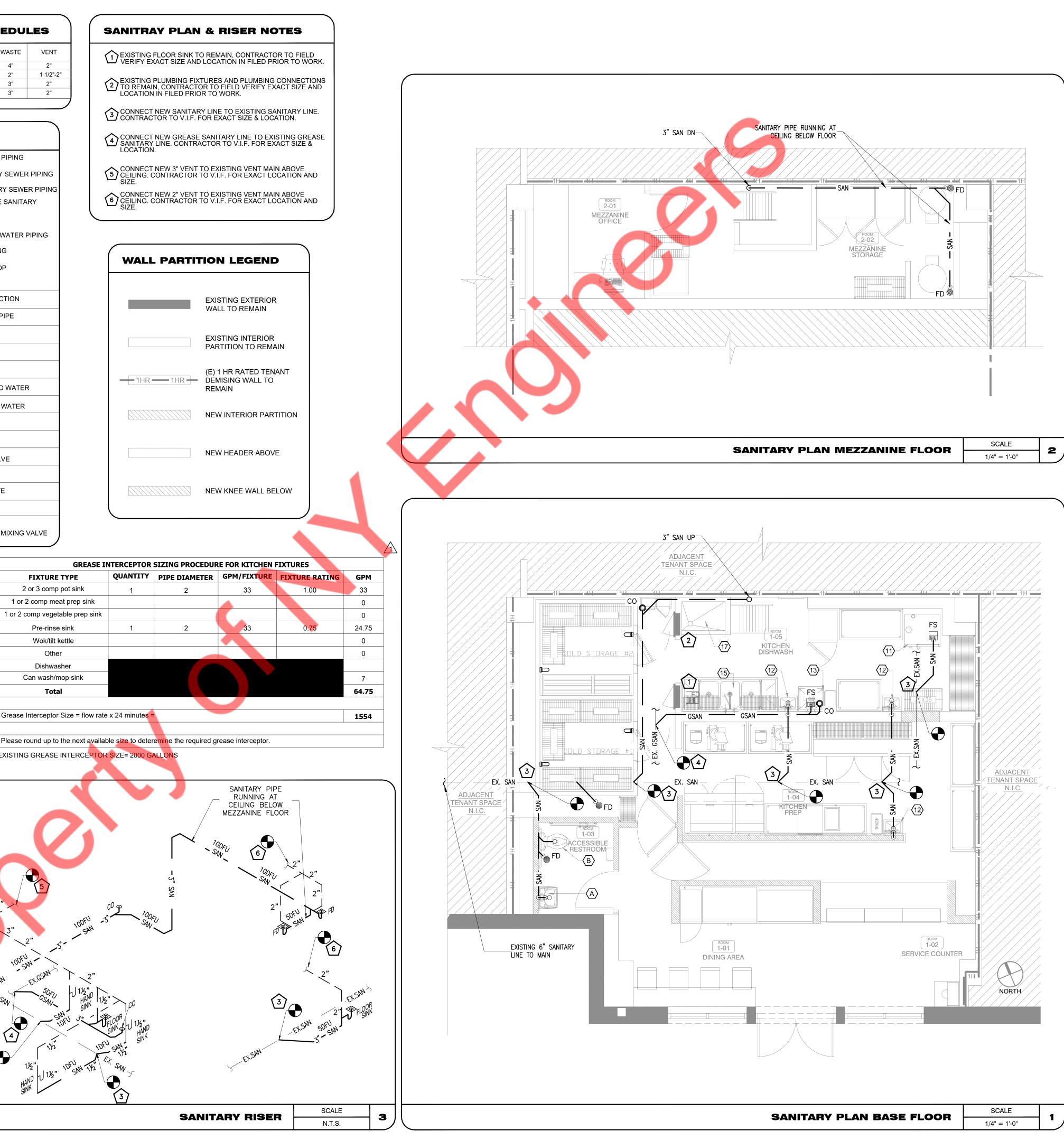
# **SCOPE OF WORK**

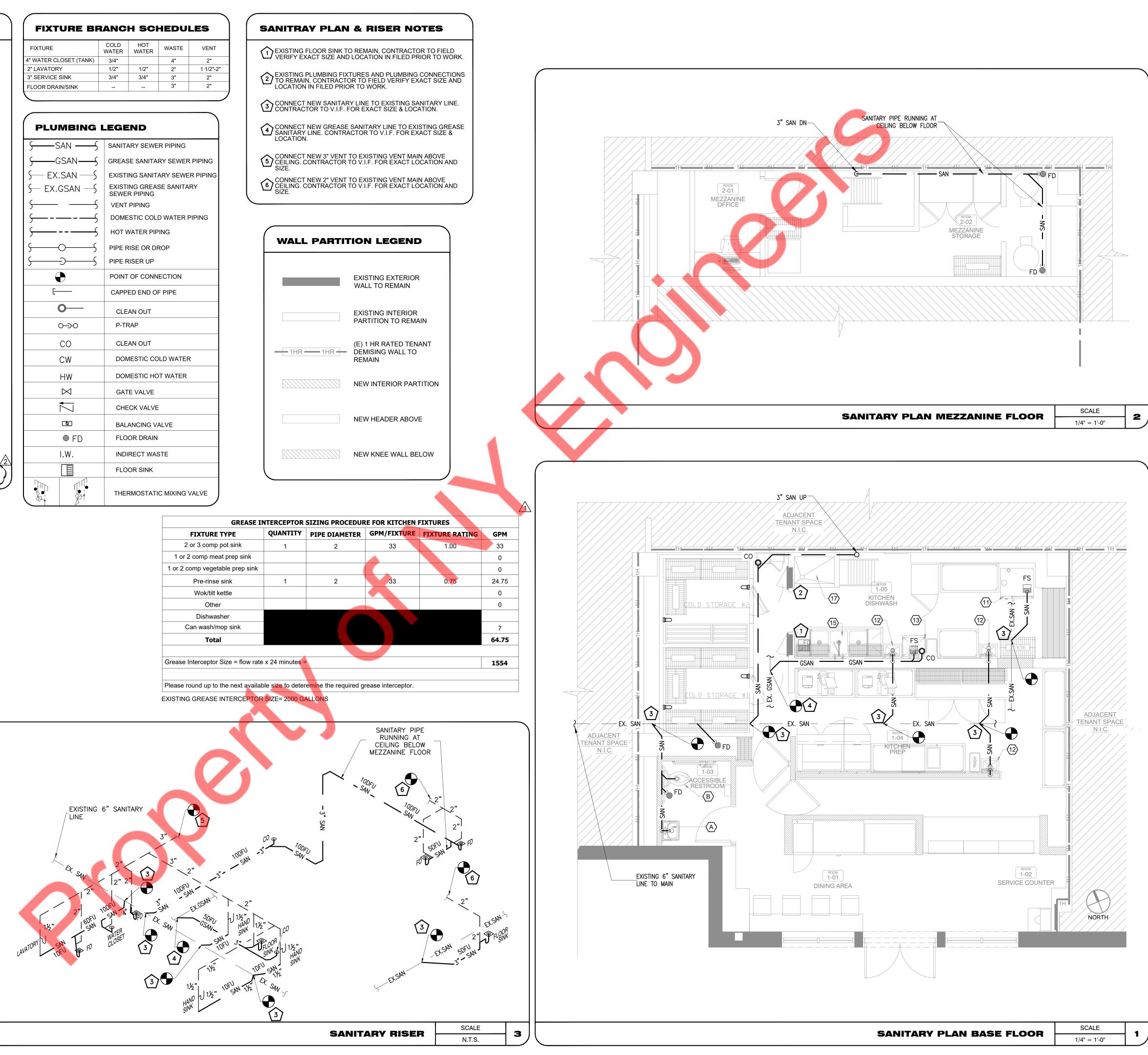
PROVIDE ALL PLUMBING FOR NEW RESTAURANT INCLUDING ALL WATER, GREASE & SANITARY LINES AND CONNECT TO EXISTING UTILITIES. USE EXISTING STORAGE TYPE WATER HEATERS. COORDINATE WITH GC AND MECHANICAL CONTRACTOR FOR ANY REQUIRED CONDENSATE LINES FOR WATER HEATER.

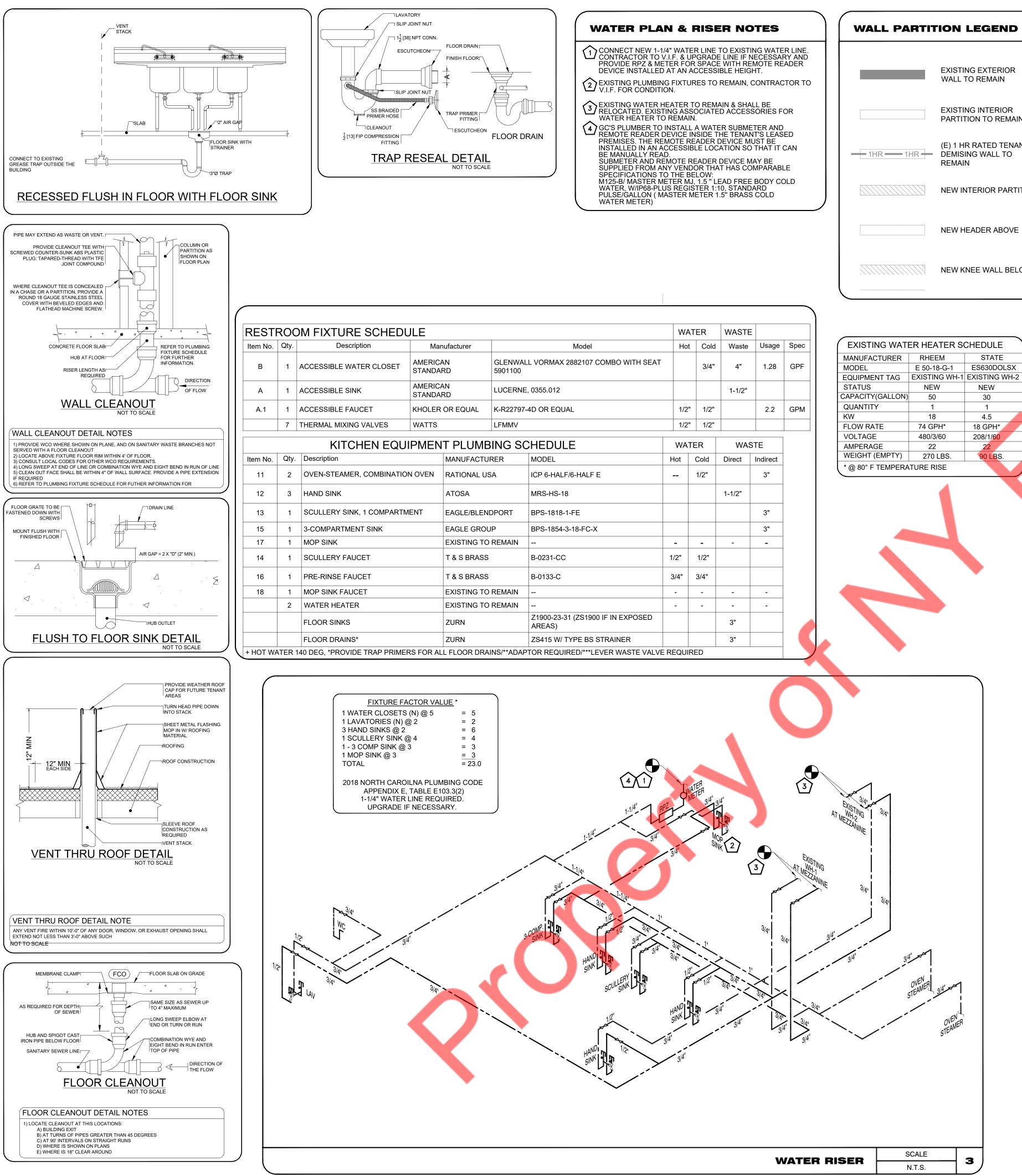
FIXTURE BRANCH SCHEDULI	
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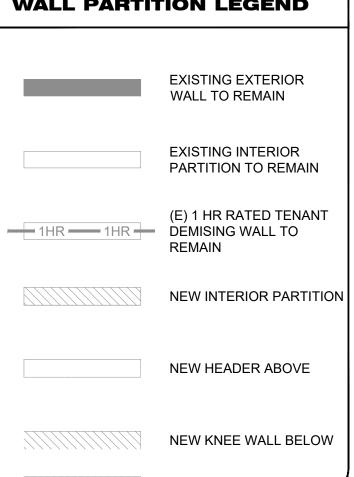
FIXTURE	COLD WATER	HOT WATER	WASTE	
4" WATER CLOSET (TANK)	3/4"		4"	
2" LAVATORY	1/2"	1/2"	2"	
3" SERVICE SINK	3/4"	3/4"	3"	
FLOOR DRAIN/SINK			3"	
<b>\</b>				

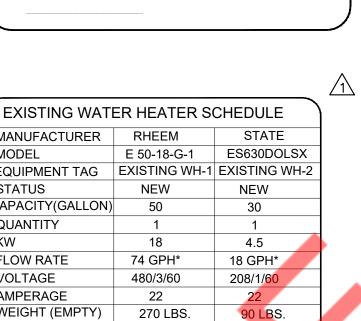
PLU	MBING L	EGEND			
ss	San —	SANITARY SEWER PIPING			
<u>م</u>	SAN —	GREASE SANITARY SEWER PI			
5 EX.	.SAN ——	EXISTING SANITARY SEWER F			
5— EX.€	GSAN ─∕	EXISTING GREASE SANITARY SEWER PIPING			
<u></u>	<u></u>	VENT PIPING			
<u></u>	<u> </u>	DOMESTIC COLD WATER PIPI			
<u> </u>		HOT WATER PIPING			
ς	o—	PIPE RISE OR DROP			
ς	-)S	PIPE RISER UP			
	Ð	POINT OF CONNECTION			
E		CAPPED END OF PIPE			
(	0	CLEAN OUT			
	<b>0</b> —>0	P-TRAP			
	СО	CLEAN OUT			
	CW	DOMESTIC COLD WATER			
	HW	DOMESTIC HOT WATER			
	$\bowtie$	GATE VALVE			
		CHECK VALVE			
	<u>\</u>	BALANCING VALVE			
	♥ FD	FLOOR DRAIN			
	I.W.	INDIRECT WASTE			
		FLOOR SINK			
		THERMOSTATIC MIXING VAL			

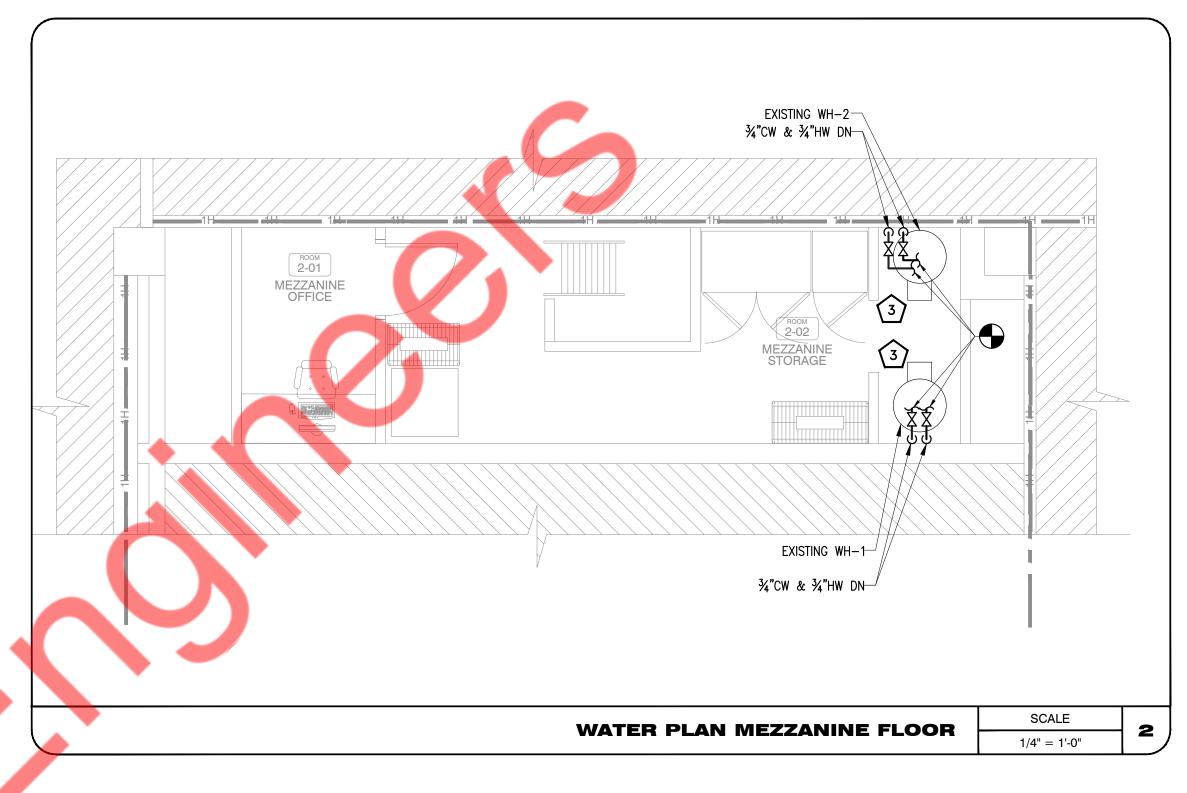




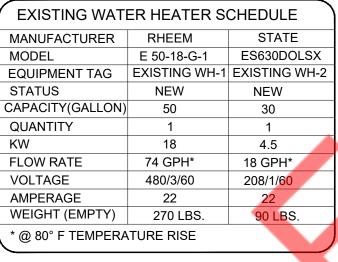


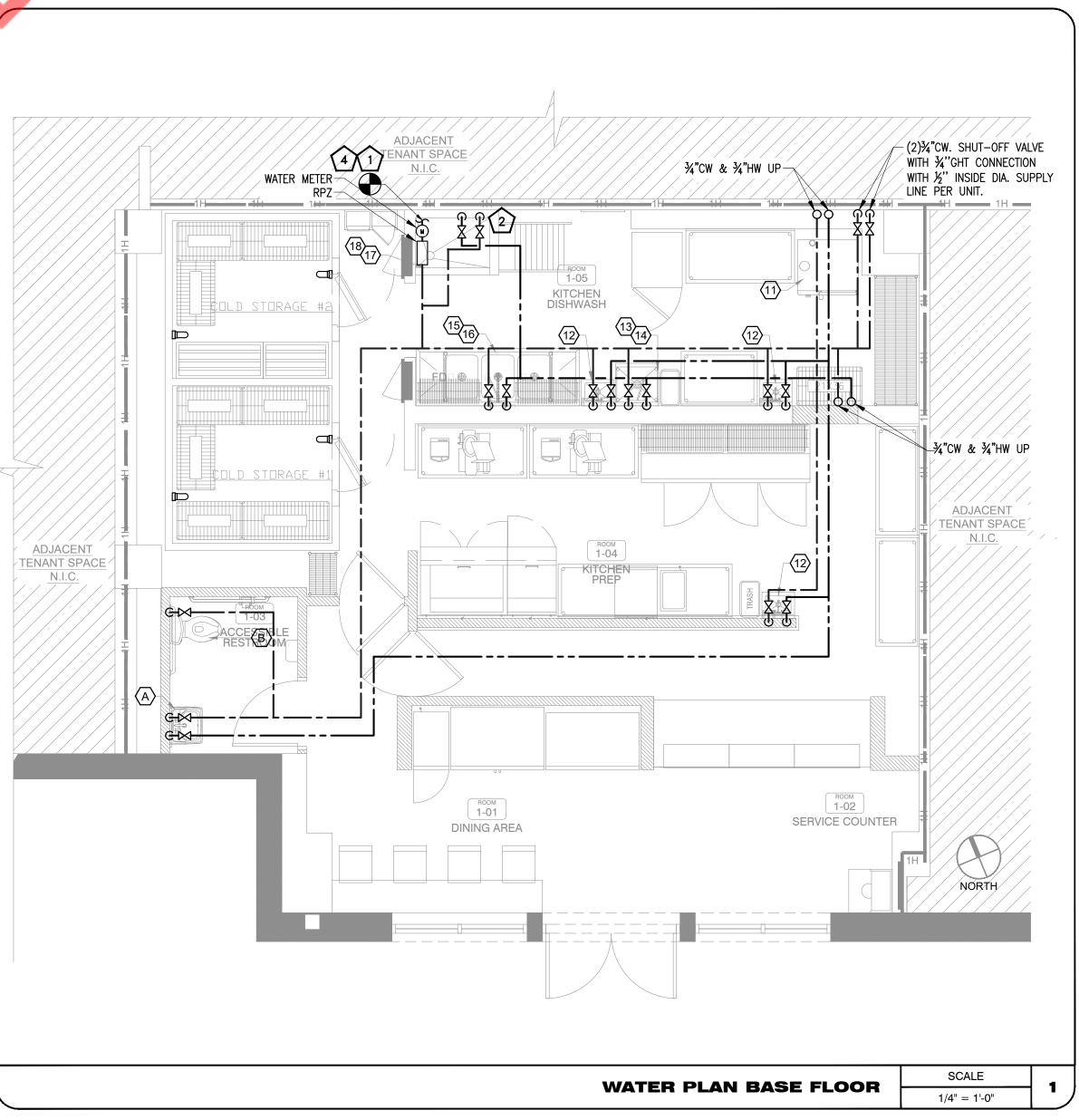


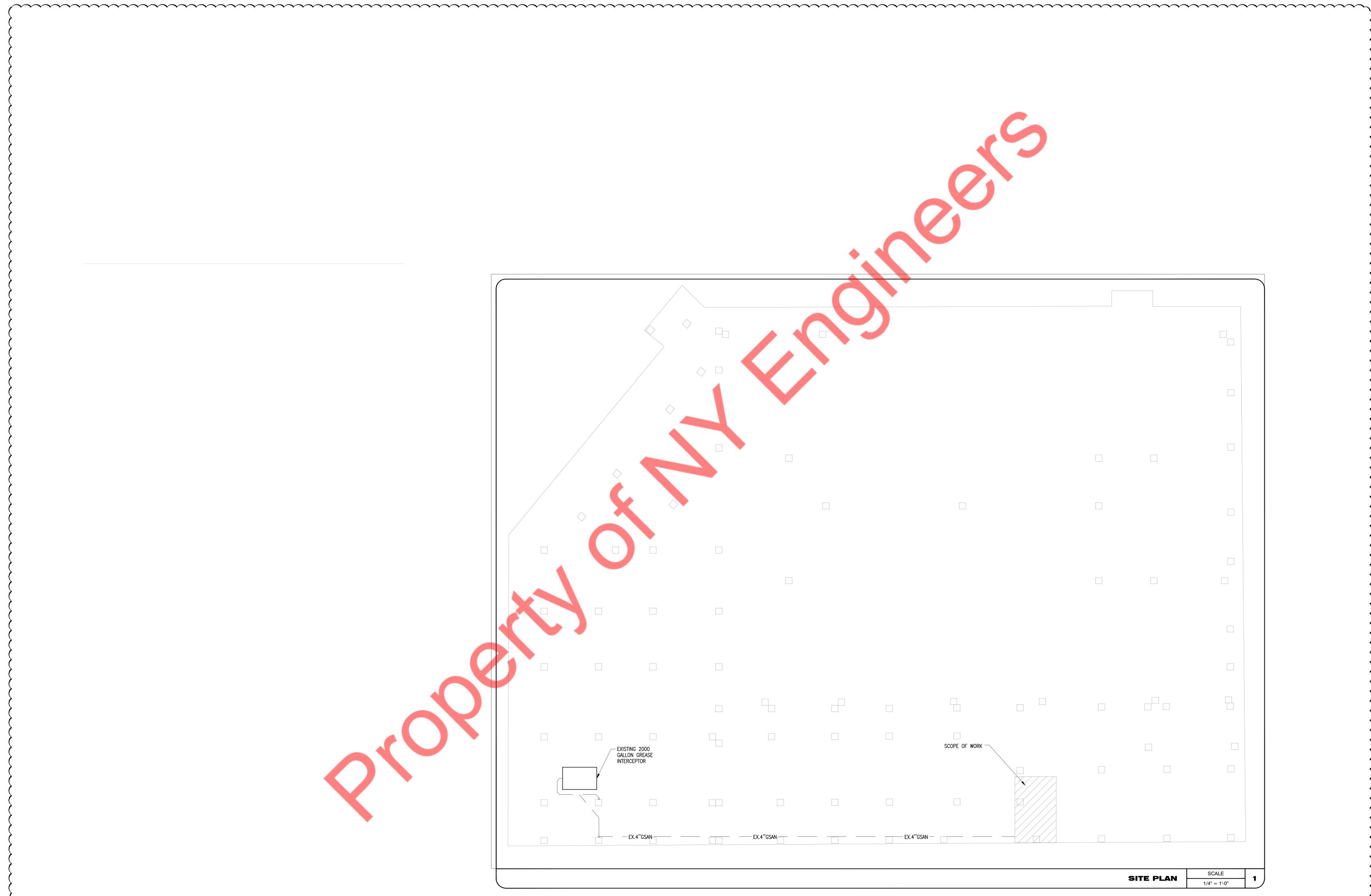




							•	
		Ho	t	Cold		Waste	Usage	Spec
MBO WITH SEAT				3/4"		4"	1.28	GPF
						1-1/2"		
		1/2	"	1/2"			2.2	GPM
		1/2"		1/2"				
	WA		TER			WASTE		
	F	lot	(	Cold		Direct	Indirect	
				1/2"			3"	
						1-1/2"		
							3"	
							3"	
	- 1/2"			-		-	-	
				1/2"				
	3	8/4"		3/4"				
		-		-		-	-	
		-		-		-	-	
IN EXPOSED				3"				
RAINER						3"		

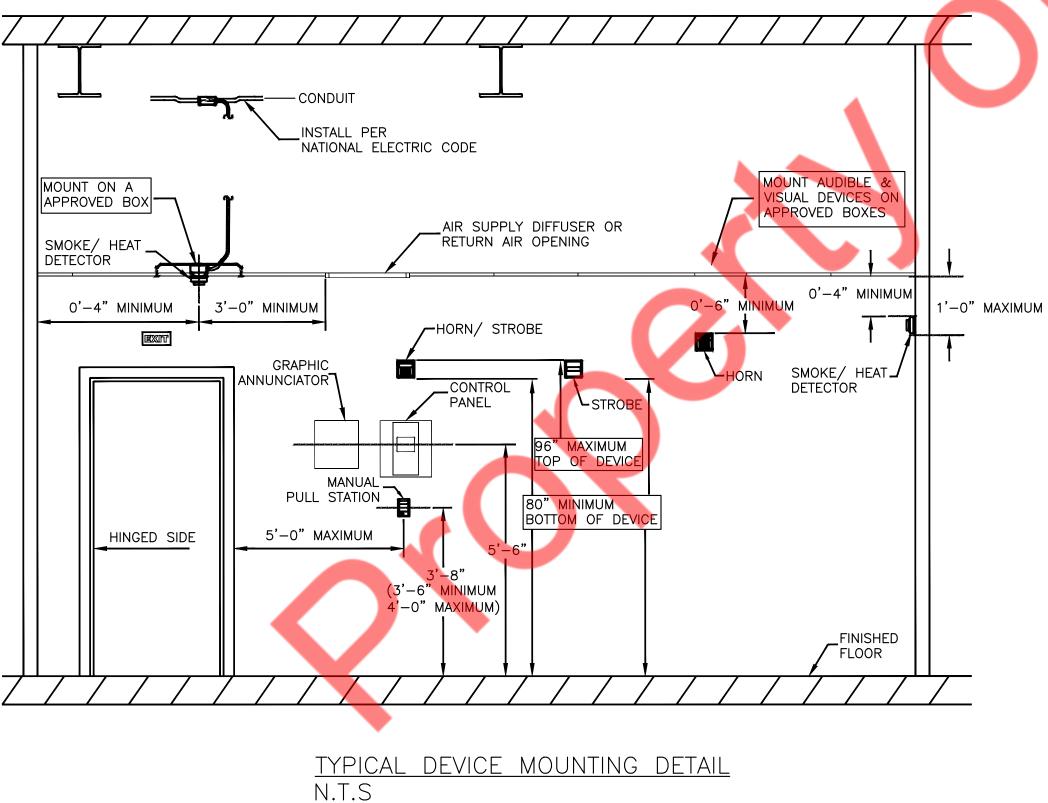






OF WORK		
		SCALE 1/4" = 1'-0"

			PROJECT DATA			
PROJECT DESCRIPTION	BUILDING OCCUPANCY			FIRE ALARM SYSTEM FEATURES		
NEW BUILDING ASSEMBLY	GROUP A (A1,A2,A3,A4 AND A5)	RESIDENTIAL GROUP R (R1,R2 AND R3)	1 TOTAL NUMBER OF LEVELS	ATRIUM	STAIR PRESSURIZATION	X NON-VOICE EVACUATION
FIRE ALARM SYSTEM UPGRADE X BUSINESS	GROUP B	STORAGE GROUP S (S1 AND S2)	1 ABOVE GROUND LEVELS	FIRE DEPARTMENT ACCESS	POST FIRE SMOKE PURGE	VOICE EVACUATION
LIFE SAFETY SYSTEM UPGRADE EDUCATIONA	L GROUP E	UTILITY AND MISCELLANEOUS GROUP U	O BELOW GROUND LEVELS	X FULLY SPRINKLERED	GENERATOR	PARTIAL/SELECTIVE EVACUATION
X RENOVATION FACTORY IN	DUSTRIAL GROUP F (F1 AND F2)	OTHER:	O NUMBER OF ELEVATOR BANKS	PARTIALLY SPRINKLERED	FIRE PUMP	GENERAL EVACUATION
EMERGENCY REPAIR HIGH-HAZA	RD GROUP H (H1,H2,H3,H4 AND H5)		O NUMBER OF EGRESS STAIRS	NON-SPRINKLERED	OTHER:	DIGITAL ALARM COMMUNICATOR
TENANT ADDITION INSTITUTION	AL GROUP I (I1,I2 AND I3)			PRE-ACTION SPRINKLER	OTHER:	PRE-SIGNAL SYSTEM
OTHER: MERCANTILE	GROUP M					FIRE FIGHTER'S TELEPHONE SYSTEM
	CONTROL UNIT ANNUNCIATION	NOTIFICATION		FIRE ALARM NOTES:		
	Image: Solution of the start of the start of the start of the start of the solution of the start of the solution of the solution of the start of the solution of the start of the solution of	Image: State of the structure in the struct	3.         3.         4.         4.         5.         6.         7.         1.	PROVIDE WIRING AS REQUIRED BETY REQUIRED TO PERFORM FIRE ALARM WIRING FOR FIRE ALARM DEVICES I CEILING SHALL BE INSTALLED IN EM ALL STROBES AND HORN/STROBES FINISH BY ARCHITECT, APPROVED F JURISDICTION (AHJ). FOR WALL MOUNTED F.A. DEVICES NEAREST ACCESSIBLE CEILING. WIRING FOR FIRE ALARM DEVICES I INSTALLED IN RGS CONDUIT UP TO ABOVE 8'-0" AFF. CONTRACTOR SHALL VERIFY ALL WIF OBTAIN WIRING DIAGRAMS BEFORE IN WORK. ALL WIRING SHALL BE IN ACCORDA PROVIDE ALL REQUIRED EXPANSION SUPPLIES, BATTERIES, FUSE CUTOU COMPLETE AND OPERATIONAL FIRE STROBES AND HORNS SHALL BE W IN ALL AREAS, AS INDICATED ON TH FIRE ALARM CONTROL PANEL (FACF CONTRACTOR SHALL PERFORM ALL OBTAIN ALL APPROVALS. CONTRACTOR SIGNED & SEALED LOCAL BUILDING SETS OF DRAWINGS FROM ENGINEE EXPEDITOR.	A SYSTEM FUNCTIONS. N FINISHED SPACES WITHOUT MT CONDUIT. SHALL BE FLUSH WALL MOU OR USE IN AUTHORITY HAVIN PROVIDE 3/4" CONDUIT TERM N UNFINISHED SPACES SHALL 8'-0" AFF AND THEN IN EM RING WITH FIRE ALARM VENDE PROCEEDING WITH THE START NCE WITH THE AHJ. PANELS, PC BOARDS, POWE TS AND BRANCH CIRCUITS, E ALARM SYSTEM. IRED ON ALTERNATING A-B ( HE RISER DIAGRAM. P) SHOULD BE COMPATIBLE A ACP. LOCAL BUILDING DEPT. FILING OR SHALL OBTAIN ALL REQUI DEPT. FORMS AND ALL REQUI DEPT. FORMS AND ALL REQUI CON AND THE SYSTEM SHALL BE 10 VENDOR AND THE LICENSED	T HUNG UNTED NG MINATED IN L BE MT CONDUIT NOR AND T OF ANY ER ETC, FOR A CIRCUITING AND IGS AND IRED DURED S DEPT.



OF ALL DEVICES AND A RISER DIAGRAM FOR APPROVAL BEFORE INSTALLATION OF ANY EQUIPMENT. 3.2 CLEAN UP

# OF CONSTRUCTION LEAVE EQUIPMENT CLEAN. 3.3 GUARANTEE

A. GUARANTEE ALL MATERIALS AND LABOR INCLUDED IN THE FIRE ALARM WORK FOR A PERIOD OF ON YEAR FROM DATE OF FINAL ACCEPTANCE BY THE OWNER. ANY PART OR PARTS OF THE WORK OR EQUIPMENT WHICH PROVE TO BR DEFECTIVE DURING THE GUARANTEE PERIOD SHALL BE REPLACED AT NO ADDITIONAL COST TO THE OWNER.

ION 16 – FIRE ALARM GENERAL ESCRIPTION OF WORK WORK UNDER THIS SECTION INCLUDES, BUT IS NOT NECESSARILY IMITED TO, FURNISHING AND INSTALLING THE FOLLOWING: 1. FIRE ALARM PANEL, WIRING AND DEVICES ALL WORK SHALL BE COMPLETE AND ITEMS, EQUIPMENT, ETC., SHALL BE ELECTRICALLY CONNECTED FOR PROPER AND CORRECT OPERATION. LL WORK UNDER THIS CONTRACT SHALL BE INSTALLED IN ACCORDANCE WITH THE LATEST EDITION OF THE FOLLOWING CODES AND STANDARDS SO FAR AS THEY APPLY: NATIONAL ELECTRICAL CODE NFPA 72 UNDERWRITER'S LABORATORIES, INC., STANDARDS AND APPROVED ELECTRICAL TESTING LABORATORIES STANDARDS. NORTH CAROLINA BUILDING CODE, LATEST EDITION AND REVISIONS. ALL LOCAL CODES AND ORDINANCES. E FIRE ALARM CONTRACTOR SHALL BE LICENSED IN THE STATE OF ORTH CAROLINA AND HAVE ALL LICENSES REQUIRED FOR THE WORK. DBTAIN ALL PERMITS, LICENSES, INSPECTIONS, ETC. REQUIRED FOR THE WORK AND PAY FOR THE SAME. FURNISH FINAL CERTIFICATE F INSPECTION AND APPROVAL FROM THE ELECTRICAL INSPECTOR HAVING JURISDICTION PRIOR TO ACCEPTANCE OF THE WORK. ALL WORK SHALL BE DONE BY SKILLED MECHANICS AND SHALL PRESENT A NEAT, TRIM, WORKMANLIKE CONDITION WHEN COMPLETED. THE INTENT OF THESE SPECIFICATIONS AND ACCOMPANYING DRAWINGS IS TO CONVEY AS REASONABLY AS POSSIBLE THE REQUIREMENTS FOR A COMPLETE JOB READY FOR THE BUILDING TO OPERATE. THE FIRE LARM CONTRACTOR SHALL TAKE THIS INTO CONSIDERATION AND NCLUDE IN HIS BASE BID ALLOWANCE FOR CONTINGENCIES AS WILL ALLOW HIM TO PROVIDE MINOR PIECES OF EQUIPMENT AND LABOR NOT PECIFICALLY INDICATED BUT REQUIRED FOR THE JOB TO OPERATE PROPERLY, AT NO ADDITIONAL COST TO THE OWNER. COORDINATE WORK WITH OTHER CONTRACTORS. NOTIFY ARCHITECT OF APPARENT CONFLICT EARLY TO EXPEDITE CONSTRUCTION. IF STRUCTURAL DAMAGE APPEARS IMMINENT, STOP WORK AND NOTIFY ARCHITECT FOR A DECISION BEFORE RESUMING OPERATIONS. OCATIONS SHOWN ARE APPROXIMATE. THE DRAWINGS DO NOT GIVE EXACT DETAILS AS TO ELEVATIONS AND LOCATIONS OF VARIOUS PIPES, TITTINGS, DUCTS, CONDUITS, ETC., AND DO NOT SHOW ALL OFFSETS AND OTHER INSTALLATION DETAILS WHICH MAY BE REQUIRED. COORDINATE ALL LOCATIONS WITH ARCHITECT BEFORE ANY ROUGH-IN. HOP DRAWINGS PROVIDE COMPLETE SHOP DRAWINGS PER NCSFC SECTION 907.1 TO THE LOCAL FIRE MARSHAL INCLUDING: . FLOORPLAN WITH ROOM NAMES . LOCATION OF ALL FA DEVICES LOCATION OF PANELS POWER CONNECTIONS BATTERY CALCULATIONS . CONDUCTOR TYPES AND SIZES VOLTAGE DROP CALCULATIONS . EQUIPMENT CUT-SHEETS, MODEL, NUMBERS, ETC. T 2 – PRODUCTS AND MATERIALS A. ALL MATERIAL SHOULD BE NEW AND SHALL BEAR THE MANUFACTURER'S

NAME TRADE, AND UL LABEL WHERE SUCH STANDARD HAS BEEN ESTABLISHED FOR THE PARTICULAR MATERIAL. MATERIALS SHALL BE STANDARD PRODUCTS OF MANUFACTURER'S REGULARLY ENGAGED IN MANUFACTURER OF THE REQUIRED TYPE OF EQUIPMENT AND THE MANUFACTURER'S LATEST APPROVED DESIGN.

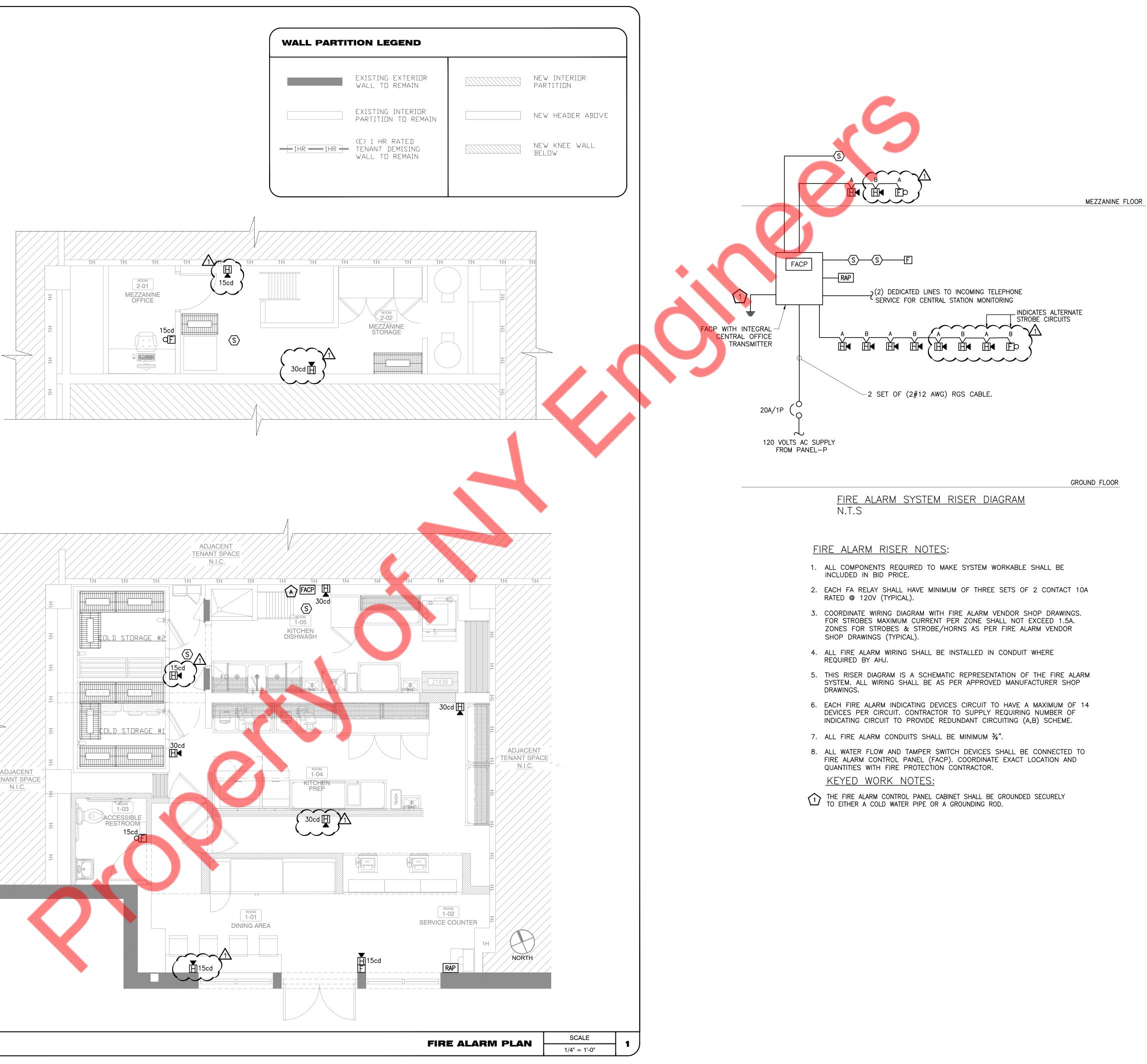
1. BOXES INSTALLED IN CONCEALED LOCATIONS SHALL BE SET FLUSH WITH THE FINISHED SURFACES. 2. PROVIDE RATED BOXES ON ALL FIRE BARRIERS AND WALLS INSTALLED PER CODE.

PART 3 – EXECUTION

3.1 FIRE ALARM SYSTEM EQUIPMENT

A. PROVIDE A COMPLETE OPERABLE FIRE ALARM SYSTEM AS SHOWN ON THE DRAWINGS AND AS REQUIRED BY STATE AND LOCAL CODES. B. ALL FIRE ALARM SYSTEM CABLES SHALL BE INSTALLED IN CONDUIT. SIZE AS REQUIRED BY THE EQUIPMENT SUPPLIER. PROVIDE A SUBMITTAL

A. DURING CONSTRUCTION, KEEP THE SITE CLEAN OF DEBRIS. UPON COMPLETION, AND BEFORE FINAL INSPECTION, CLEAN UP THE PREMISES TO REMOVE ALL EVIDENCE OF WORK. IN ADDITION UPON COMPLETION



SYMBOL	DESCRIPTION
FACP	FIRE ALARM CONTROL PANEL
Ē	STROBE LIGHT DEVICE, WALL MOUNTED (80" AFF)
	WALL MOUNTED HORN/STROBE COMBINATION DEVICE (80" AFF)
F	FIRE ALARM MANUAL PULL STATION, WALL MOUNTED (48" AFF)
Ś	CEILING MOUNTED AREA SMOKE DETECTOR
RAP	REMOTE ANNUNCIATOR PANEL

FIRE ALARM PLAN KEYED WORK NOTES:

AND FACILITY MANAGER FOR LOCATION OF FACP. FACP SHALL BE LOCATED AS PER THE DIRECTION FROM THE AUTHORITY HAVING JURISDICTION (AHJ) AND LOCAL FIRE DEPARTMENT.

