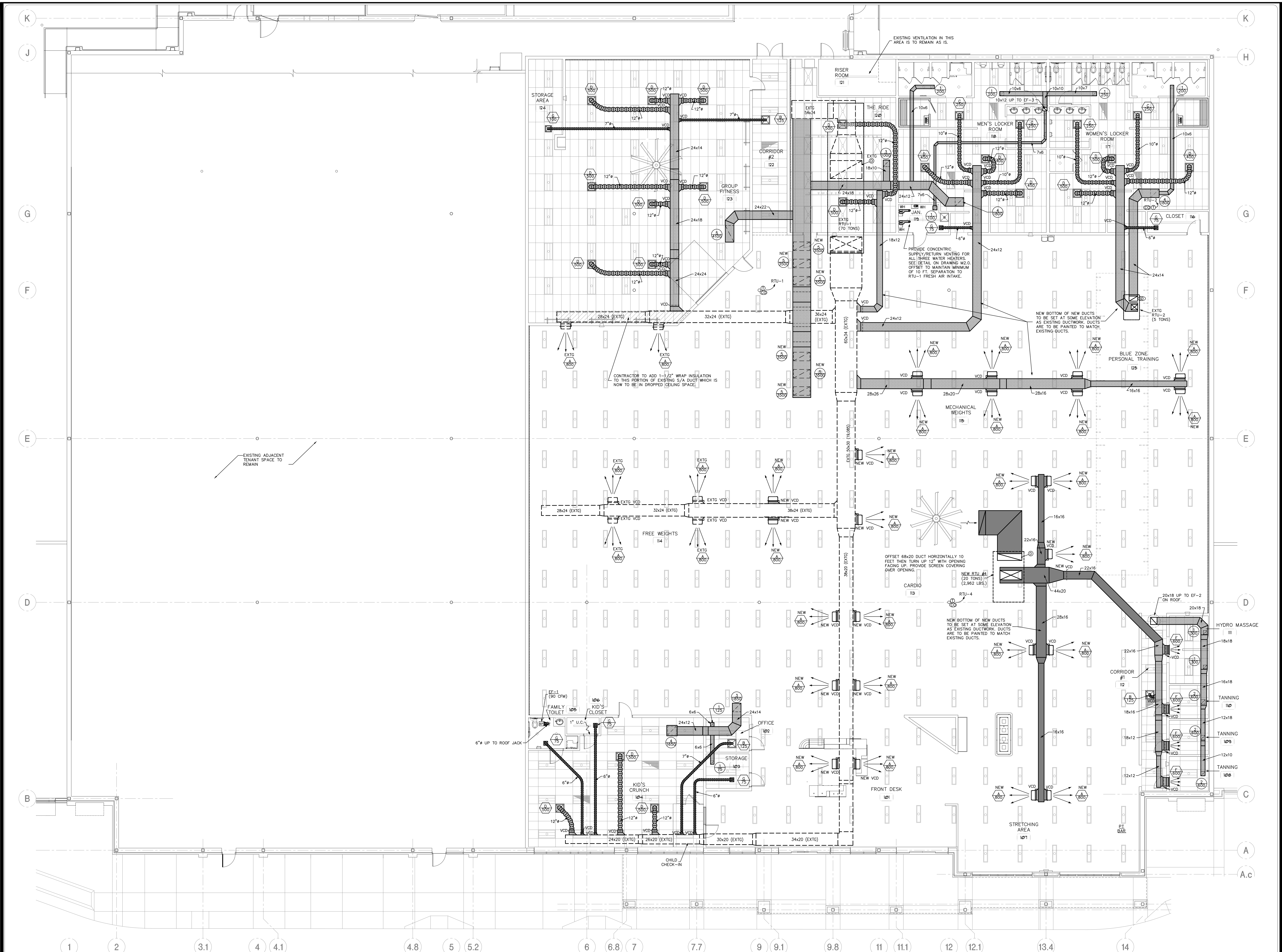




1 FLOOR PLAN - MECHANICAL
SCALE: 1/8"=1'-0"

M1.1

FAN SCHEDULE										
LABEL	TYPE OF UNIT – AREA SERVED	MANUFACTURER & MODEL NO.	CFM	SP	MOUNTING ARRANGEMENT	MOTOR H.P.	ENCLOSURE TYPE	RPM	VOLTAGE	NOTES
EF-1	CABINET FAN – REFER TO PLANS	PENN ZEPHYR Z6	90	.125"	CEILING MOUNTED	50 WATTS	OPEN DRIP PROOF	1055	115V/1ø	1
EF-2	ROOFTOP CENTRIFUGAL FAN	PENN DOME XD12B	2,400	-.5"	ROOF MOUNTED	3/4	OPEN DRIP PROOF	1497	115V/1ø	1
EF-3	ROOFTOP CENTRIFUGAL FAN	PENN DOME DX06B	450	-.3"	ROOF MOUNTED	1/4	OPEN DRIP PROOF	1105	115V/1ø	1

NOTES: 1.) REFER TO ELECTRICAL PLANS FOR CONTROL.

MECHANICAL SYSTEMS, SERVICE SYSTEMS AND EQUIPMENT

METHOD OF COMPLIANCE

PRESCRIPTIVE

☒

ENERGY COST BUDGET

☐

THERMAL ZONE 3A

EXTERIOR DESIGN CONDITIONS

WINTER DRY BULB 18°F

SUMMER DRY BULB 94°F

INTERIOR DESIGN CONDITIONS

WINTER DRY BULB 18°F

SUMMER DRY BULB 74°F

RELATIVE HUMIDITY 55.8%

BUILDING HEATING LOAD 735,000 BTUH

BUILDING COOLING LOAD 1,100,000 BTUH

MECHANICAL SPACING CONDITIONING SYSTEM

UNITARY

DESCRIPTION OF UNIT REFER TO EQUIPMENT SCHEDULES ON THIS SHEET.

HEATING EFFICIENCY REFER TO EQUIPMENT SCHEDULES ON THIS SHEET.

COOLING EFFICIENCY REFER TO EQUIPMENT SCHEDULES ON THIS SHEET.

HEAT OUTPUT OF UNIT REFER TO EQUIPMENT SCHEDULES ON THIS SHEET.

COOLING OUTPUT OF UNIT REFER TO EQUIPMENT SCHEDULES ON THIS SHEET.

BOILER

TOTAL BOILER OUTPUT, IF OVERSIZED STATE REASONS N/A

CHILLER

TOTAL CHILLER CAPACITY, IF OVERSIZED STATE REASONS N/A

LIST EQUIPMENT EFFICIENCIES

REFER TO EQUIPMENT SCHEDULES ON THIS SHEET.

EQUIPMENT SCHEDULES WITH MOTORS (MECHANICAL SYSTEMS)

MOTOR HORSEPOWER REFER TO EQUIPMENT SCHEDULES ON THIS SHEET.

NUMBER OF PHASES REFER TO EQUIPMENT SCHEDULES ON THIS SHEET.

MINIMUM EFFICIENCY REFER TO EQUIPMENT SCHEDULES ON THIS SHEET.

MOTOR TYPE REFER TO EQUIPMENT SCHEDULES ON THIS SHEET.

NUMBER OF POLES REFER TO EQUIPMENT SCHEDULES ON THIS SHEET.

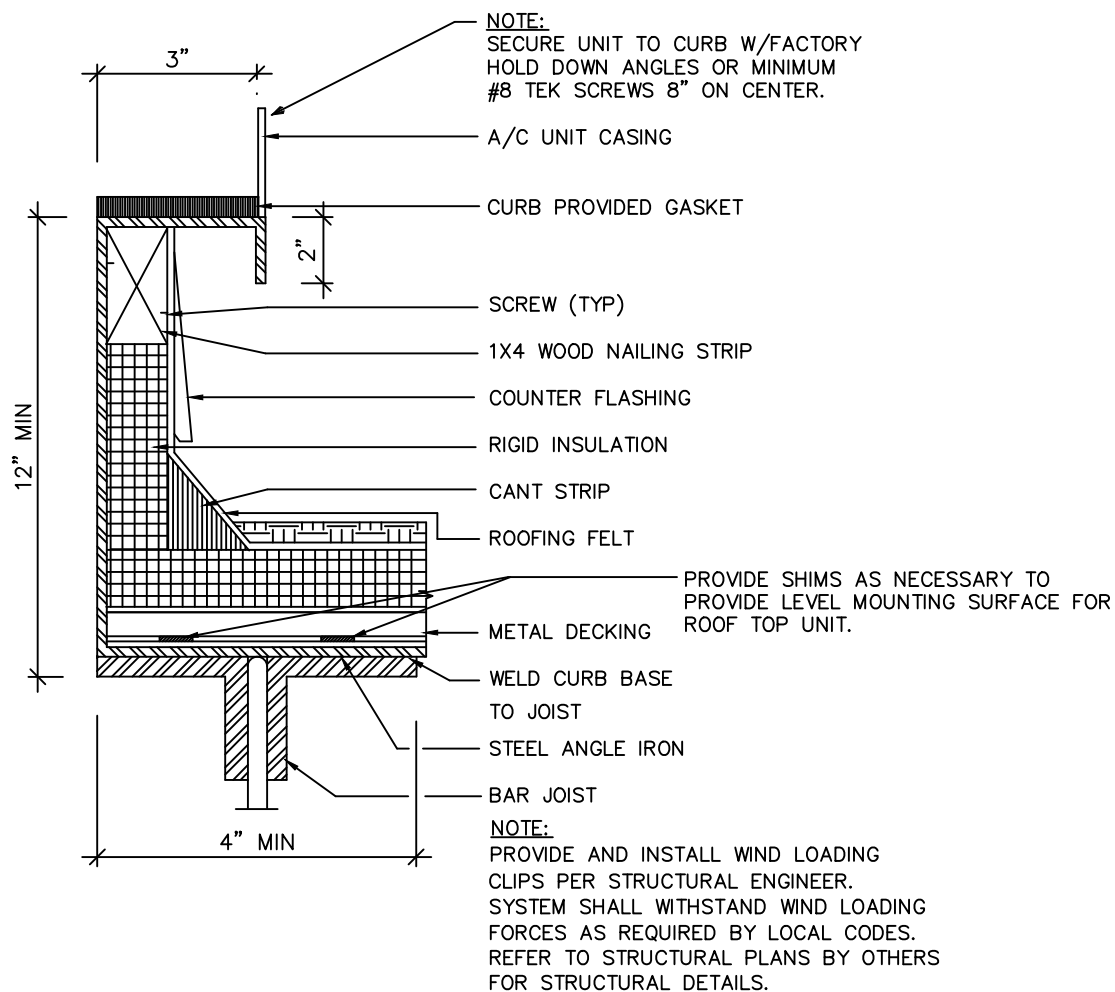
DESIGNER STATEMENT:

TO THE BEST OF MY KNOWLEDGE AND BELIEF, THE DESIGN OF THIS BUILDING COMPLIES WITH THE MECHANICAL, SYSTEMS, SERVICE SYSTEMS AND EQUIPMENT REQUIREMENTS OF THE 2012 NORTH CAROLINA STATE ENERGY CODE, CHAPTER 5.

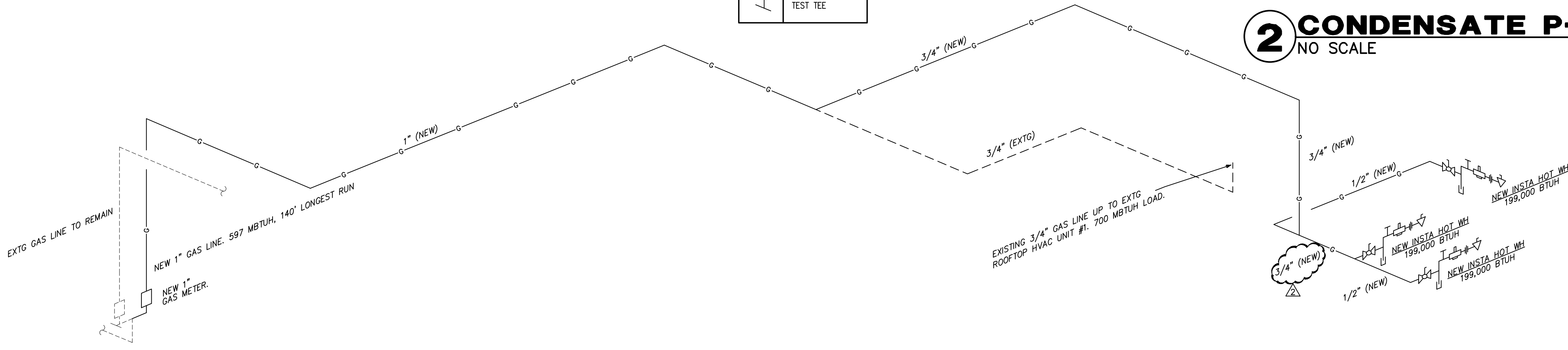
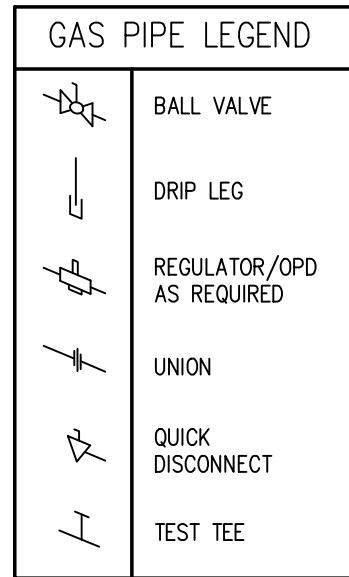
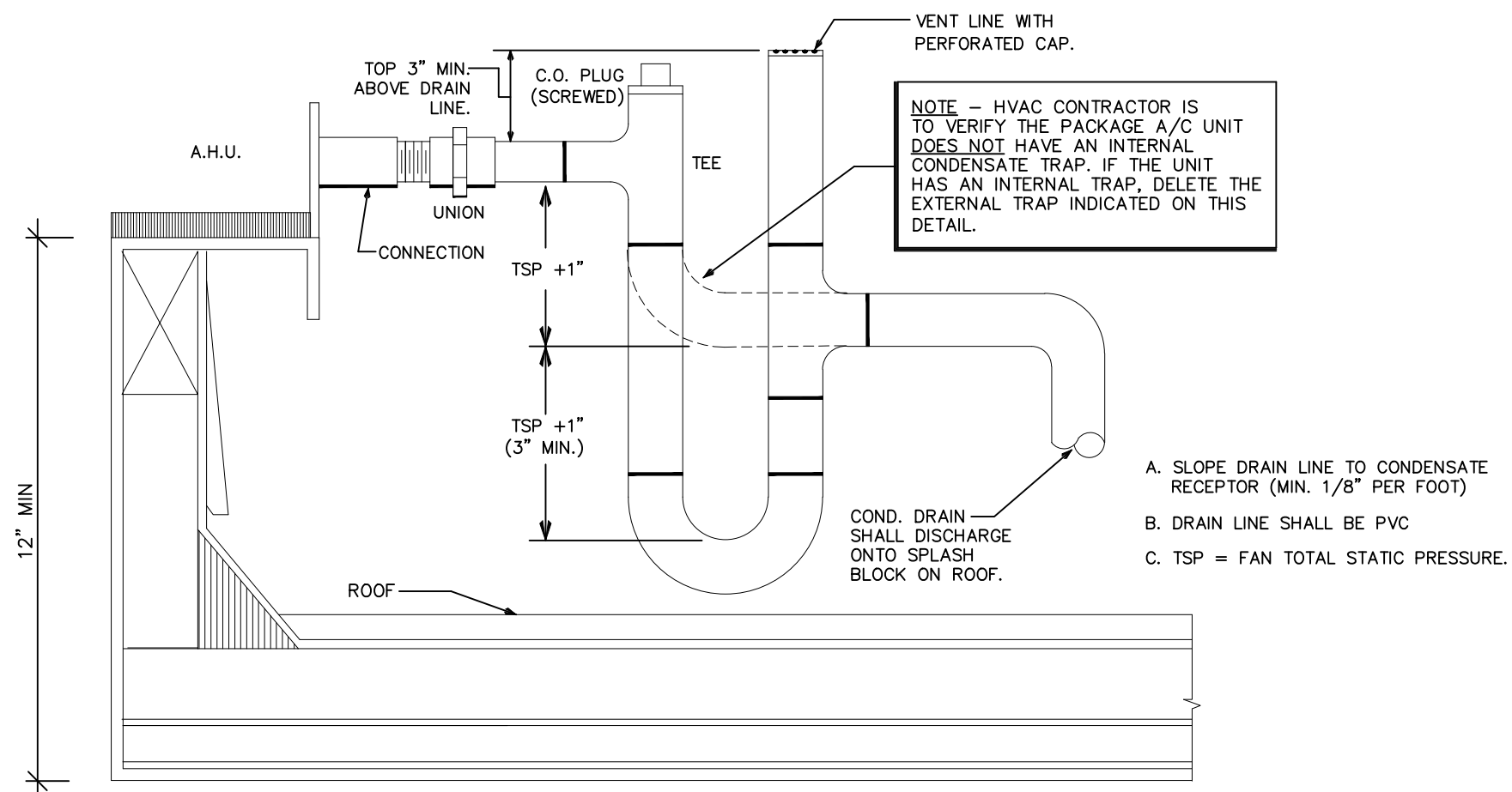
SIGNED: _____

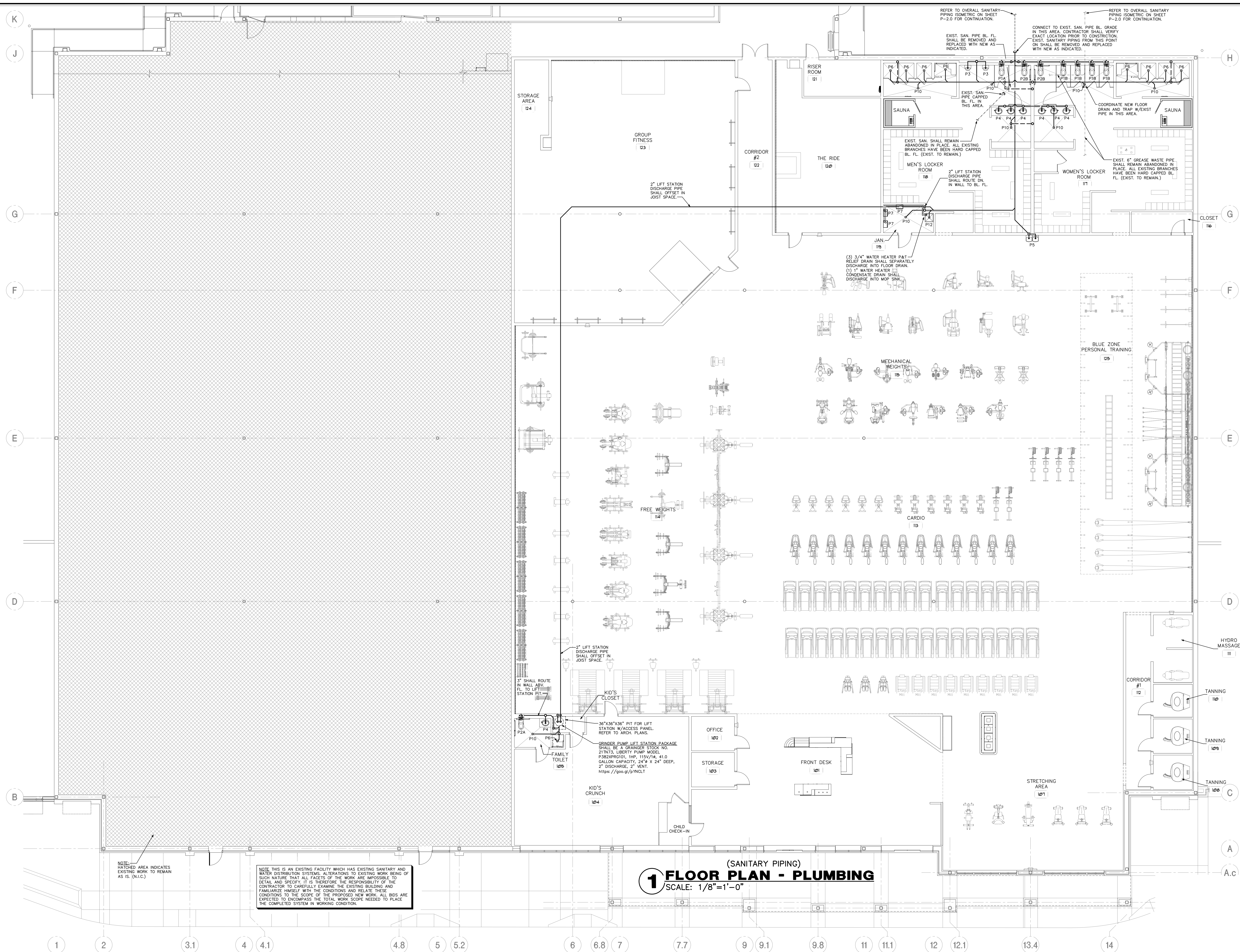
NAME: TOOQ M. CAREY

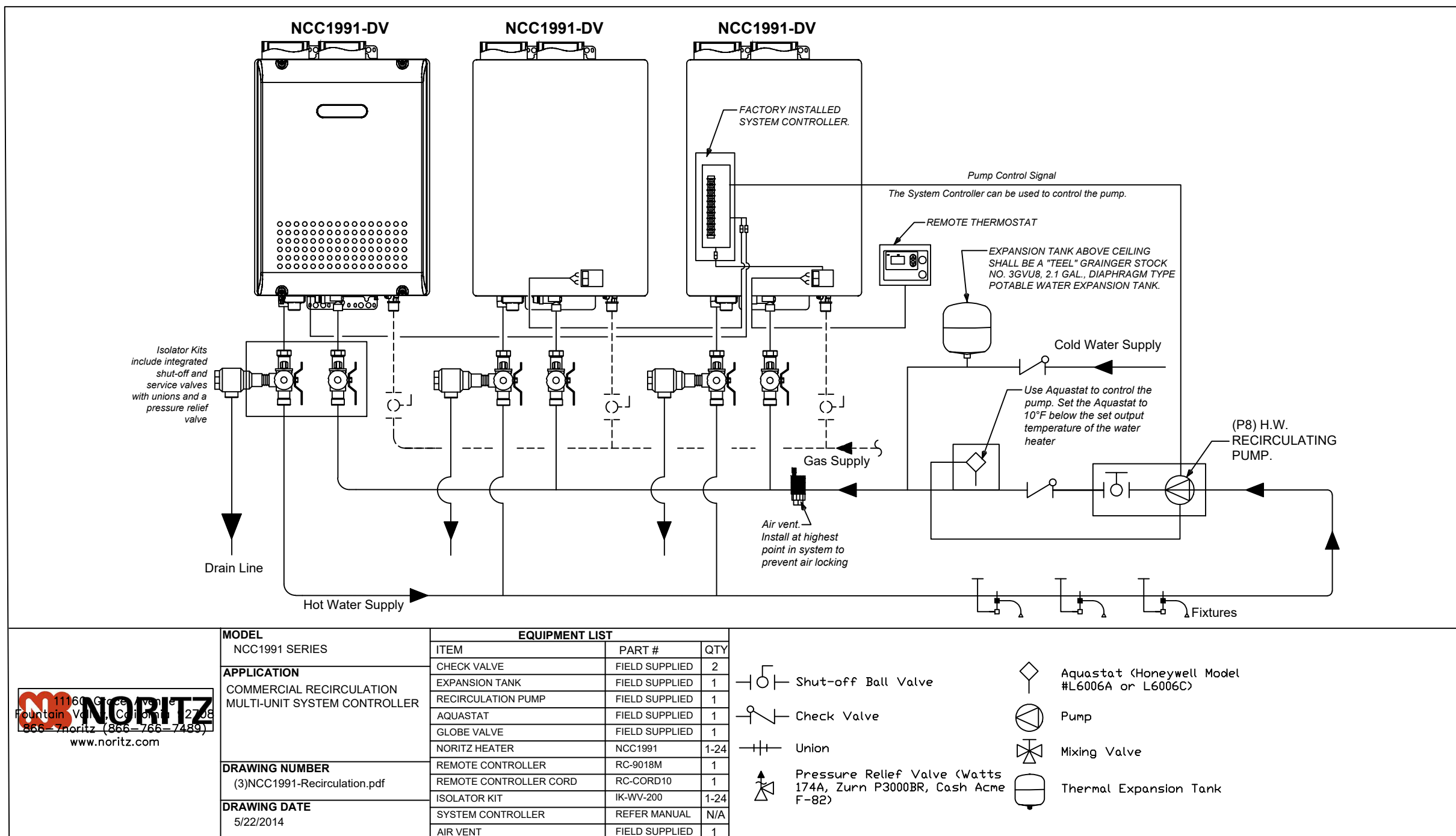
TITLE: N.C. PROFESSIONAL ENGINEER #09079



SUPPLY DIFFUSER SCHEDULE					
DESIGNATES LABEL FOR DIFFUSER TYPE				ALL DIFFUSERS ARE TO BE PROVIDED WITH OPPOSED BLADE DAMPERS UNLESS OTHERWISE SPECIFIED ON PLANS.	
DESIGNATES CFM QUANTITY FOR DIFFUSER					
LABEL	MANUFACTURER & MODEL NO.	NECK SIZE	CFM RANGE	REMARKS	
A	KRUEGER DFL OW	10 x 25	600 - 850	ROUND LOUVER - MATCH EXTG	
B	TITUS TDC-AA	6"*	0 - 125	24X24 LOUVERED FACE	
C	TITUS TDC-AA	10"*	205 - 325	24X24 LOUVERED FACE	
D	TITUS TDC-AA	12"*	330 - 500	24X24 LOUVERED FACE	
F	TITUS 300RL	24X6	405 - 700	SIDEWALL REGISTER	
G	TITUS TDC-AA	6"*	0 - 125	12X12 LOUVERED FACE	







4 TANKLESS WATER HEATER PIPING DIAGRAM NO SCALE

PLUMBING FIXTURE SCHEDULE	
P-1A (WALL MOUNTED FLUSH VALVE WATER CLOSET WITH MANUAL FLUSH VALVE) SHALL BE AN AMERICAN STANDARD AFWALL MILLENNIUM MODEL 2257.660. FLUSH VALVE SHALL BE A "SLOAN" MODEL ROYAL 111-1.28, MANUAL FLUSHOMETER, 1.28 GPF POLISHED CHROME FINISH, SINGLE FLUSH, ROYAL@EXPOSED, TOP OF BOWL MOUNTED AT 14" A.F.F. WATER CLOSET WALL CARRIER SHALL BE A "ZURN" MODEL Z1201-N-3 EZCARRY@ ADJUSTABLE HORIZONTAL HIGH PERFORMANCE SIPHON JET NO-HUB WATER CLOSET 3" CARRIER SYSTEM.	WATER CLOSET: https://goo.gl/8hVZv5 FLUSH VALVE: https://goo.gl/cYzRUV WALL CARRIER: https://goo.gl/aDRvQa
P-1B (WALL MOUNTED FLUSH VALVE WATER CLOSET WITH MANUAL FLUSH VALVE) SHALL BE AN AMERICAN STANDARD AFWALL MILLENNIUM MODEL 2257.660. FLUSH VALVE SHALL BE A "SLOAN" MODEL ROYAL 111-1.28, MANUAL FLUSHOMETER, 1.28 GPF POLISHED CHROME FINISH, SINGLE FLUSH, ROYAL@EXPOSED, TOP OF BOWL MOUNTED AT 14" A.F.F. WATER CLOSET WALL CARRIER SHALL BE A "ZURN" MODEL Z1201-N-4 EZCARRY@ ADJUSTABLE HORIZONTAL HIGH PERFORMANCE SIPHON JET NO-HUB WATER CLOSET 4" CARRIER SYSTEM.	WATER CLOSET: https://goo.gl/8hVZv5 FLUSH VALVE: https://goo.gl/cYzRUV WALL CARRIER: https://goo.gl/Vme4uu
P-2A (ADA WALL MOUNTED FLUSH VALVE WATER CLOSET WITH MANUAL FLUSH VALVE) SHALL BE AN AMERICAN STANDARD AFWALL MILLENNIUM MODEL 2257.660. FLUSH VALVE SHALL BE A "SLOAN" MODEL ROYAL 111-1.28, MANUAL FLUSHOMETER, 1.28 GPF POLISHED CHROME FINISH, SINGLE FLUSH, ROYAL@EXPOSED, TOP OF BOWL MOUNTED AT 16-1/2" A.F.F. WATER CLOSET WALL CARRIER SHALL BE A "ZURN" MODEL Z1201-N-3 EZCARRY@ ADJUSTABLE HORIZONTAL HIGH PERFORMANCE SIPHON JET NO-HUB WATER CLOSET 3" CARRIER SYSTEM.	WATER CLOSET: https://goo.gl/8hVZv5 FLUSH VALVE: https://goo.gl/cYzRUV WALL CARRIER: https://goo.gl/aDRvQa
P-2B (ADA WALL MOUNTED FLUSH VALVE WATER CLOSET WITH MANUAL FLUSH VALVE) SHALL BE AN AMERICAN STANDARD AFWALL MILLENNIUM MODEL 2257.660. FLUSH VALVE SHALL BE A "SLOAN" MODEL ROYAL 111-1.28, MANUAL FLUSHOMETER, 1.28 GPF POLISHED CHROME FINISH, SINGLE FLUSH, ROYAL@EXPOSED, TOP OF BOWL MOUNTED AT 16-1/2" A.F.F. WATER CLOSET WALL CARRIER SHALL BE A "ZURN" MODEL Z1201-N-4 EZCARRY@ ADJUSTABLE HORIZONTAL HIGH PERFORMANCE SIPHON JET NO-HUB WATER CLOSET 4" CARRIER SYSTEM.	WATER CLOSET: https://goo.gl/8hVZv5 FLUSH VALVE: https://goo.gl/cYzRUV WALL CARRIER: https://goo.gl/Vme4uu
P-3 (ADA URINAL AND FLUSH VALVE) SHALL BE AN AMERICAN STANDARD ALLBROOK MODEL 6541.610 3/4" TOP SPUD, 0.125 TO 1.0 GPF, FLUSH VALVE SHALL BE A "SLOAN" MODEL ROYAL 111-1.28, MANUAL FLUSHOMETER, 1.28 GPF POLISHED CHROME FINISH, SINGLE FLUSH, ROYAL@EXPOSED, TOP OF BOWL MOUNTED AT 14" A.F.F. WATER CLOSET WALL CARRIER SHALL BE A "ZURN" MODEL Z1201-N-3 EZCARRY@ ADJUSTABLE HORIZONTAL HIGH PERFORMANCE SIPHON JET NO-HUB WATER CLOSET 3" CARRIER SYSTEM.	URINAL: https://goo.gl/KoL1W FLUSH VALVE: https://goo.gl/cYzRUV
P-4 (ADA COUNTER TOP LAVATORY) SHALL BE AN "AMERICAN STANDARD" MODEL AQUALYN MODEL 0475.047 VITREOUS CHINA DROP-IN LAVATORY. FAUCET SHALL BE AN "AMERICAN STANDARD" MODEL 2200-4E2805ABCP, Deck Mounted 4" Fixed Centers Single Lever Hot and Cold WaterMixing Sink Faucet.	LAVATORY: https://goo.gl/sofMnp FAUCET: https://goo.gl/YT3Be1
P-5 (ADA ELECTRIC WATER COOLER COMBINATION H2O W/BOTTLE FILLER) SHALL BE AN "EXIST" MODEL WBSFSL VERSAFILLER WATER COOLER, REFRIGERATED DRINKING FOUNTAIN, BOTTLE FILLER COMBINATION, SPLIT LEVEL, ADA COMPLIANT, 8 GPH, 4.6A, 115V/1ø, UNIT TO INCLUDE WALL MOUNTING BRACKETS.	WATER COOLER: https://goo.gl/WVHMF
P-6 (SHOWER MIXING VALVE AND SHOWER HEAD COMBO) SHALL BE A "SYMONS" MODEL S-9603-PLR HAND SHOWER SYSTEM POWERED BY THE TEMPTROL® PRESSURE BALANCING VALVE. FEATURES ADJUSTABLE STOP SCREW TO LIMIT HANDLE TURN, INTEGRATED VOLUME CONTROL, 36" SLIDE BAR, IN-LINE VACUUM BREAKER, 60" FLEXIBLE METAL HOSE, ADA HAND SHOWER AND STANDARD 2.5 GPM (9.5 L/MIN) FLOW RESTRICTOR. COMPONENTS MADE FROM METAL AND NONMETALLIC MATERIALS PLATED IN STANDARD POLISHED CHROME FINISH.	MIXING VALVE & SHWR. HEAD: https://goo.gl/wCW6
P-7 (TANKLESS GAS WATER HEATER - TYP. OF 3) SHALL BE A NORITZ MODEL C0199DV (G0-C0259WZ-FF US), 199,900 BTUH, 4.6 GPM @ 90° RISE, WATER HEATER TO DELIVER 140° H.W., 115V/1ø.	WATER HEATER: https://goo.gl/22KJG
P-8 (HOT WATER CIRCULATOR PUMP W/REMOTE TIMER) SHALL BE A "BELL & GOSSETT" SERIES PR, MODEL #PR-AB, (ALL BRONZE), 1/6HP, 115V/1ø, 1.9 AMP, 1725 RPM, 2 GPM @ 16' HEAD. PUMP SHALL BE PROVIDED WITH A "BELL & GOSSETT" TO-1 AUTOMATIC TIMER KIT.	RECIRCULATING PUMP: https://goo.gl/4JQIS TIMER: https://goo.gl/Nk4wu
P-9 (INSTA-HOT WATER HEATER BELOW LAVATORY) WATER HEATER SHALL BE A "CHRONOMETER" MODEL SR-40/208, 8.3 KW TANKLESS WATER HEATER @ 208V/1ø, 40 AMPS.	INSTA-HOT: https://goo.gl/68lwa
P-10 (FLOOR DRAIN WITH TRAP PRIMER) SHALL BE A JOSAM 30003-A-50 SERIES COATED CAST IRON FLOOR DRAIN WITH 1/2" TRAP PRIMER. 1/2" PIPE CONNECTION, 6" DIA. STRAINER TYPE 6A, TWO-PIECE BODY WITH DOUBLED DRAINAGE FLANGE, WELOC INVERTIBLE NON-PUNCTURING FLASHING COLLAR, WEEPHOLE, BOTTOM OUTLET AND ADJUSTABLE SATIN NIKALOY ROUND SUPER-FLO STRAINER.	DRAIN: https://goo.gl/0G5ly
P-11 (AUTOMATIC TRAP PRIMER) SHALL BE A IPS CORPORATION "SIOUX CHIEF" MODEL 695 TRAP PRIMER WITH VACUUM BREAKER. AUTOMATIC TRAP PRIMER VALVE SHALL ACTIVATE WITH A 10 PSIG PRESSURE DROP BETWEEN 30-150 PSIG.	DRAIN: https://goo.gl/WqVvk
P-12 (FLOOR MOUNTED INTERIOR CANWASH/MOP RECEPTOR) SHALL BE A FLORESTONE MSR-2424 36X36X6" MOLDED MOP BASIN WITH 3" OUTLET. PROVIDE WITH MR-371 THREADED FAUCET WITH WALL BRACKET, PAI HOOR AND APPROVED VACUUM BREAKER, MR-370 HOSE & HOSE BRACKET, MR-372 MOP HANGER, MR-373 BUMPER GUARDS AND MR-377 STAINLESS TEE WALL GUARD.	SINK: https://goo.gl/PZpJ6 FAUCET/ACCESSORIES: https://goo.gl/wmCM7

PLUMBING SYMBOLS LEGEND

	FLOOR DRAIN
	HOSE BIBB
	CLEANOUT
	RELIEF VALVE
	AIR CHAMBER
	UNION
	SOL. OR WASTE LINE
	SANITARY VENT LINE
	DOMESTIC COLD WATER
	DOMESTIC HOT WATER
	DOMESTIC WATER RECIRCULATION
	PRESSURE & TEMP. RELIEF LINE
	CONDENSATE DRAIN LINE
	RAIN WATER LEADER
	GAS LINE
	SAFE WASTE LINE
	FIRE PROTECTION
	SHUT OFF VALVE
	SAFE PAN LINE
	FIRE SPRINKLER HEAD
	PIPE TURN UP
	PIPE TURN DOWN
	P-TRAP

PLUMBING FIXTURE CONNECTION SIZES				
FIXTURE	C.W. CONN. SIZE	H.W. CONNECTION SIZE	SANITARY BRANCH SIZE	F.U. LOAD VALUES
WATER CLOSET (P1,P2)	1/2"	3"	3"	5.0
URINAL (P3)	3/4"	2"	2"	5.0
LAVATORY (P4)	1/2"	1-1/4"	1-1/4"	2.0
ELECTRIC WATER COOLER (P5)	1/2"	1-1/4"	1-1/4"	0.5

NOTE: F.U. LOAD VALUES BASED ON IPC 2012 - APPENDIX E TABLE E103.2(2)

PLUMBING ABBREVIATION LEGEND		
DN. DOWN	C.C. CENTER TO CENTER	F.U. FIXTURE UNITS
EXT. EXTERIOR	N.T.S. NOT TO SCALE	H.B. HOSE BIBBS
F.D. FLOOR DRAIN	MFG. MANUFACTURER	C.O. CLEANOUT
F.F. FINISH FLOOR	S.O.V. SHUT OFF VALVE	E.W.H. ELECTRIC WATER HEATER
A.F.F. ABOVE FINISH FLOOR	W.C. WATER CLOSET	JAN.SK. JANITOR SINK
V.T.R. VENT THROUGH ROOF	L.V. LAVATORY	P & T PRESSURE & TEMPERATURE
TYP. TYPICAL	S.K. SINK	R.W.L. RAIN WATER LEADER
R.D. ROOF DRAIN	D.W. DISH WASHER	
REV. REVISION	E.D.F. ELECTRIC DRINKING FOUNTAIN	
O.C. ON CENTER	UR. URINAL	

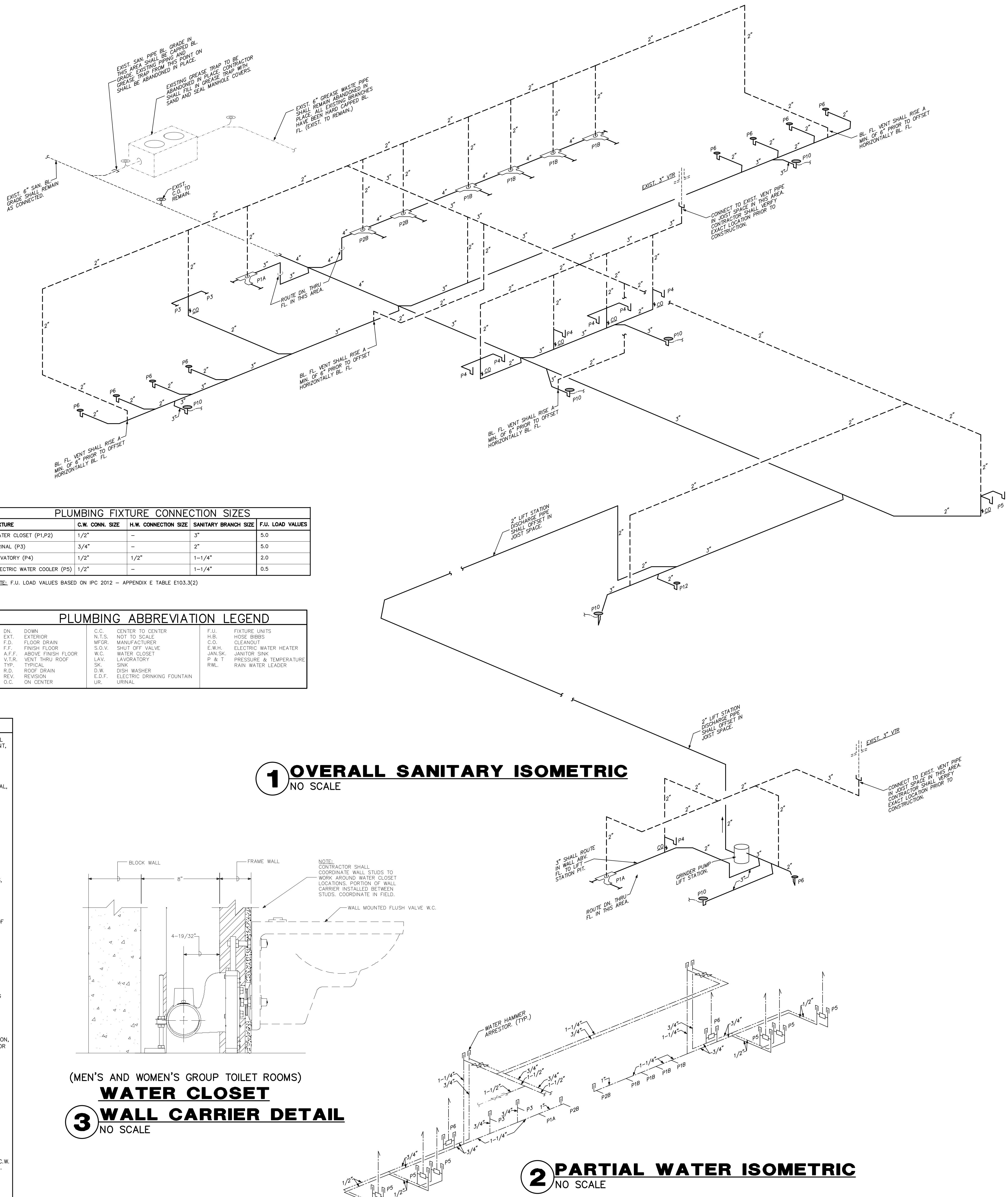
GENERAL PLUMBING NOTES

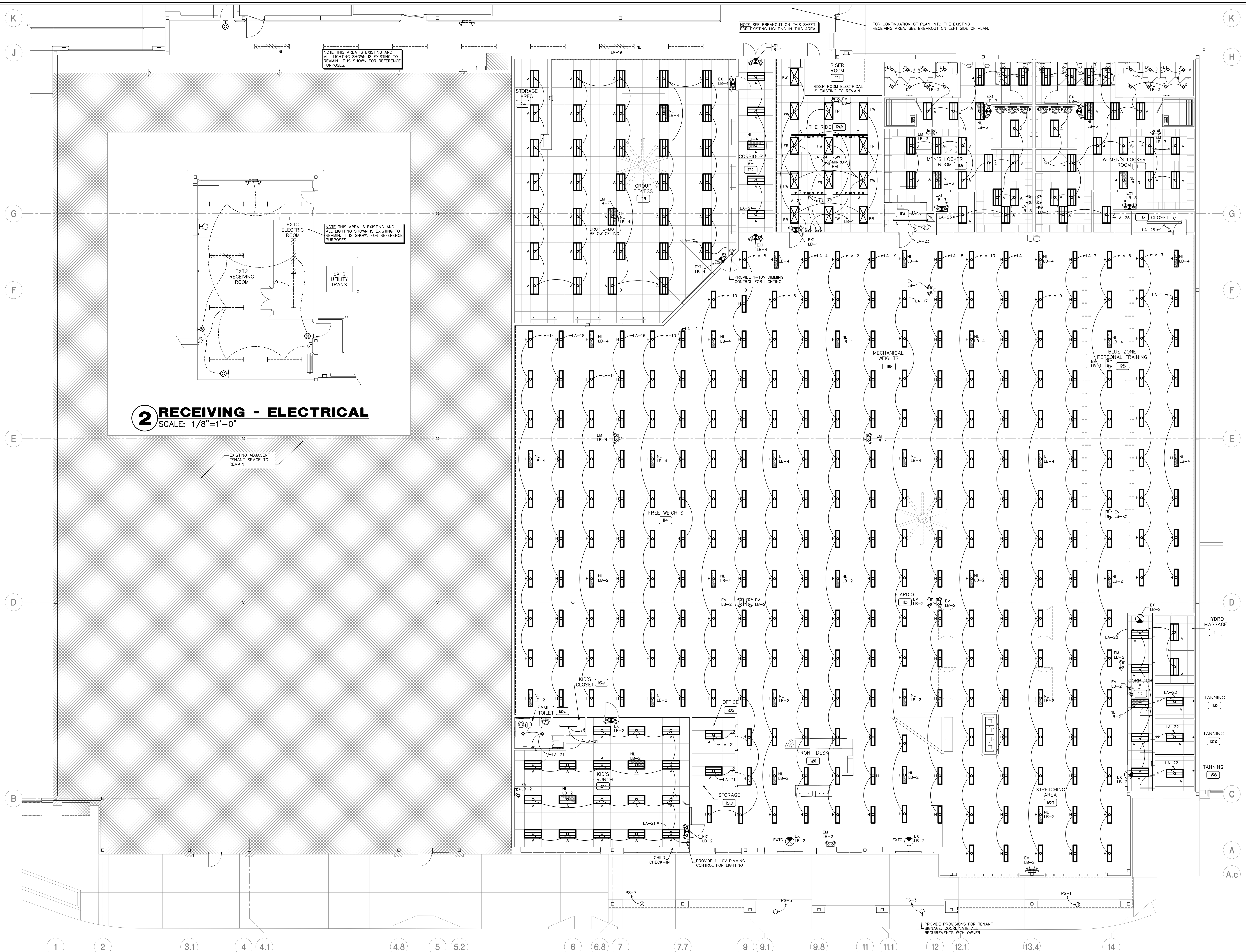
- DRAWINGS ARE DIAGRAMMATIC AND SHALL NOT BE SCALED. REFER TO ARCHITECTURAL PLANS AND ELEVATIONS FOR EXACT LOCATION OF ALL PLUMBING FIXTURES, EQUIPMENT, ETC. PLUMBING CONTRACTOR SHALL FURNISH AND INSTALL ALL ITEMS REQUIRED FOR A COMPLETE AND ACCEPTABLE WORKING INSTALLATION. CONTRACTOR IS RESPONSIBLE TO INSTALL ALL FIXTURES AND EQUIPMENT IN STRICT COMPLIANCE WITH THE MANUFACTURER'S INSTALLATION INSTRUCTIONS. THIS REQUIREMENT IS TO SUPERSEDE ANY DETAILS OR INFORMATION CONTAINED ON THESE DRAWINGS.
- ALL WORK AND MATERIALS SHALL COMPLY WITH THE LATEST EDITION OF THE NATIONAL, STATE, AND ALL LOCAL CODES AND ORDINANCES HAVING JURISDICTION.
- THE PLUMBING CONTRACTOR SHALL VISIT THE SITE AND THOROUGHLY FAMILIARIZE HIMSELF WITH ALL EXISTING CONDITIONS. ALL EXECUTION AND BACKFILL AS REQUIRED FOR THIS PHASE OF CONSTRUCTION SHALL BE A PART OF THIS CONTRACT.
- ALL MATERIAL 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 AND ACCEPTED BY ENGINEER/ARCHITECT.
- ALL REQUIRED INSURANCE SHALL BE PROVIDED FOR PROTECTION AGAINST PUBLIC LIABILITY OR PROPERTY DAMAGE FOR THE DURATION OF THE WORK.
- THE PLUMBING CONTRACTOR SHALL SECURE AND PAY ALL PERMIT FEES, INSPECTIONS, AND TESTS.
- ALL WORK SHALL BE COORDINATED WITH OTHER TRADES TO AVOID INTERFERENCE WITH THE PROGRESS OF CONSTRUCTION.
- THE PLUMBING CONTRACTOR SHALL GUARANTEE ALL MATERIALS AND WORKMANSHIP FREE FROM DEFECTS FOR A PERIOD OF NOT LESS THAN (1) ONE YEAR FROM DATE OF ACCEPTANCE. CORRECTION OF ANY DEFECTS SHALL BE COMPLETED WITHOUT ADDITIONAL CHARGE AND SHALL INCLUDE REPLACEMENT OR REPAIR OF ANY OTHER PHASE OF THE INSTALLATION WHICH MAY HAVE BEEN DAMAGED THEREBY.
- VERIFY LOCATION, SIZE AND INVERTS OF ALL EXISTING UTILITIES PRIOR TO START OF CONSTRUCTION. ADVISE ARCHITECT/ENGINEER OF ANY DISCREPANCIES.
- ALL FIXTURES SHALL BE PROVIDED WITH READILY ACCESSIBLE STOPS.
- ALL BELOW FLOOR SLAB WATER PIPING SHALL BE FLEXIBLE "TEMPRITE PEX (CROSS-LINKED POLYETHYLENE) INSTALLED AS PER MANUFACTURERS RECOMMENDATIONS FOUND HERE: WWW.LUBRIZOL.COM. ALL ABOVE SLAB WATER PIPING SHALL BE "FLOWGUARD GOLD CPVC" INSTALLED AS PER MANUFACTURERS RECOMMENDATIONS FOUND HERE: WWW.FLOWGUARDGOLD.COM. ALL WATER PIPING AS SPECIFIED OR APPROVED EQUAL. ALL 2" WATER PIPING SHALL BE TYPE "L" COPPER AND TYPE "K" COPPER FOR 2 1/2" AND LARGER. (OR APPROVED EQUAL)
- SOL. WASTES AND VENT PIPING SHALL BE PVC #40 DMV. WASTE AND VENT PIPING ABOVE SLAB SHALL BE PVC, IF APPROVED BY LOCAL AUTHORITIES HAVING JURISDICTION. OTHERWISE CAST IRON. PVC SHALL NOT BE INSTALLED IN A/C RETURN AIR PLENUM OR PENETRATE FIRE RATED WALLS OR FLOORS.
- AIR CONDITIONING CONDENSATE DRAIN PIPING SHALL BE PVC #40 OR COPPER DRAIN WASTE AND BENT PIPE AND FITTINGS. INSULATE ALL CONDENSATE PIPING EXCEPT EXTERIOR PIPING. INSTALL ALL CONDENSATE PIPING FOR AIR CONDITIONING UNITS AS REQUIRED PER LOCAL CODES.
- FURNISH AND INSTALL APPROVED WATER HAMMER ARRESTORS AT EACH GROUP OF FIXTURES. INSTALLATION OF WATER HAMMER ARRESTORS SHALL CONFORM TO THE MANUFACTURER'S RECOMMENDATIONS. PROVIDE AND INSTALL AN APPROVED WATER HAMMER ARRESTOR AT EACH FIXTURE OR DEVICE THAT HAS A SOLENOID WATER CONTROL VALVE.
- PROVIDE CHROME PLATED COMBINATION COVERED PLATE AND CLEANOUT PLUG FOR ALL WALL CLEANOUTS. JOSAM 58690.
- INSULATE LINES AS FOLLOWS:
 - 1-1/2" THICK ARMAFLEX PREFORMED INSULATION SHALL BE PROVIDED ON BOTH C.W. & H.W. WHEN PIPING IS LOCATED OUTSIDE OF THE INSULATED BUILDING ENVELOPE.
 - 1-1/2" THICK ARMAFLEX PREFORMED INSULATION SHALL BE PROVIDED ON HW PIPING & H.W. RECIRC. PIPING, ONLY WHEN THERE IS A H.W. RECIRCULATING PIPING SYSTEM.

(MEN'S AND WOMEN'S GROUP TOILET ROOMS)

WATER CLOSET

3 WALL CARRIER DETAIL NO SCALE

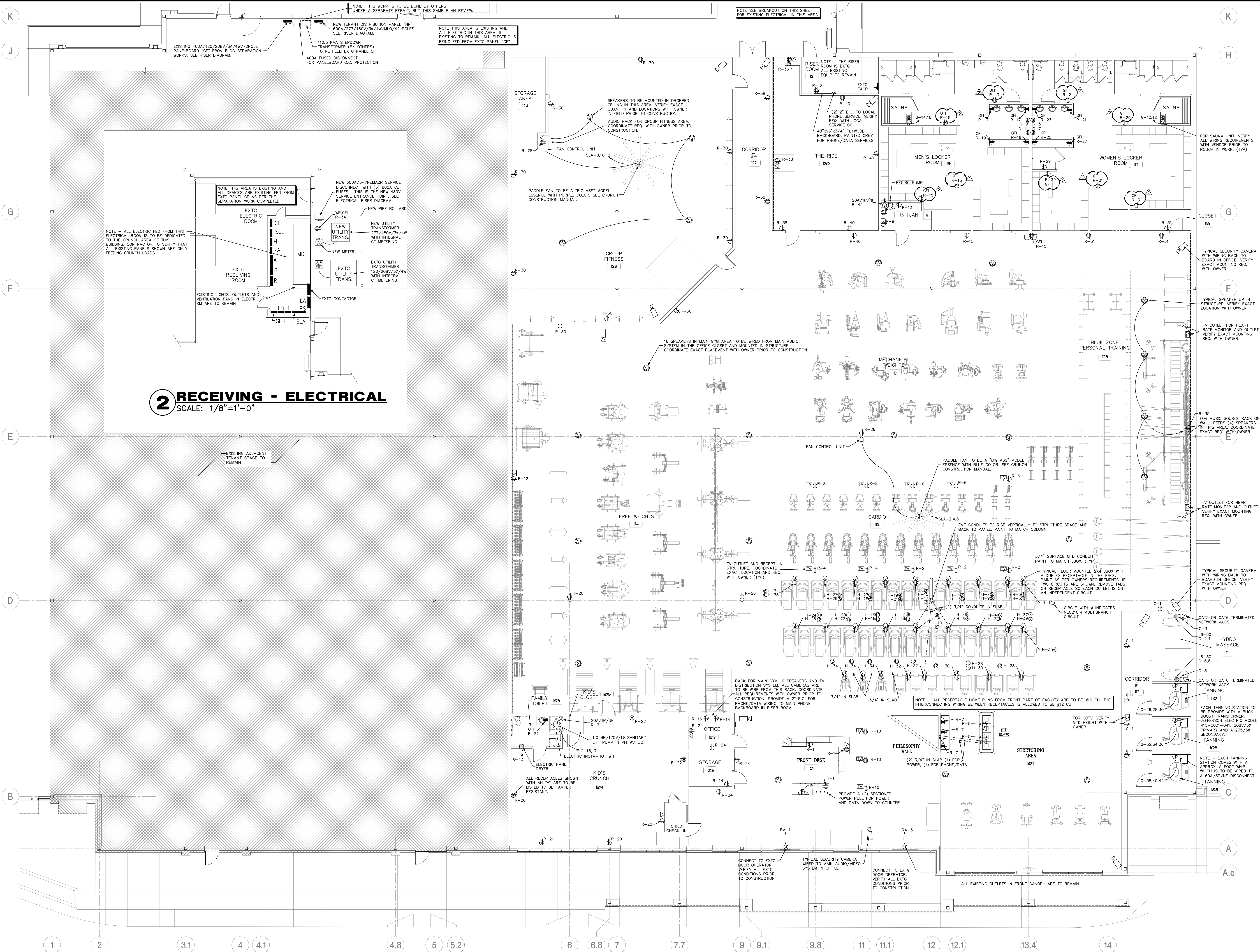




2 RECEIVING - ELECTRICAL
SCALE: 1/8"=1'-0"

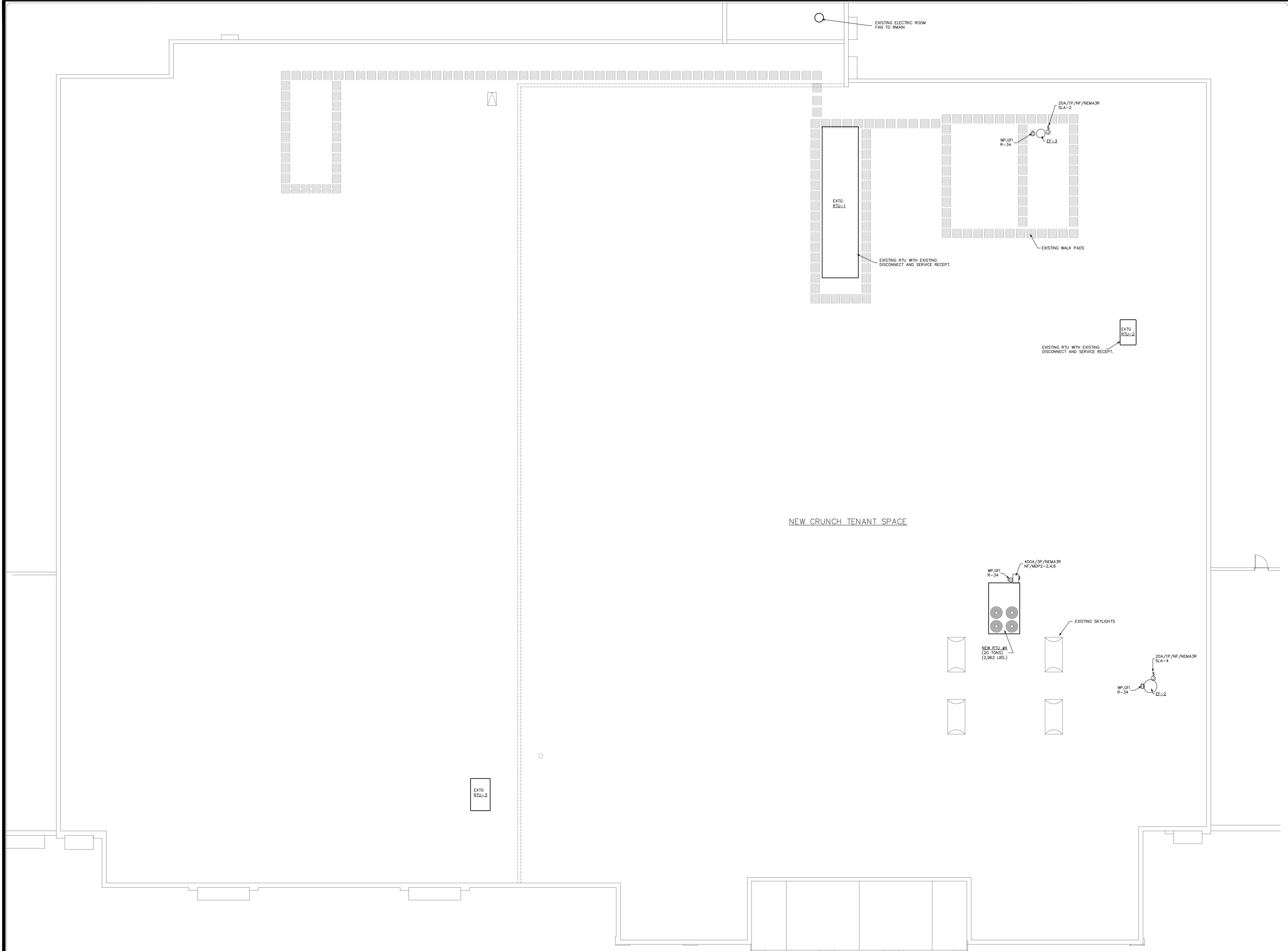
1 FLOOR PLAN - LIGHTING
SCALE: 1/8"=1'-0"

E1.0



2 RECEIVING - ELECTRICAL
SCALE: 1/8"=1'-0"

1 FLOOR PLAN - POWER
SCALE: 1/8"=1'-0"



1 ROOF PLAN - POWER
SCALE: 1/8"=1'-0"

ELECTRICAL SYSTEM AND EQUIPMENT		
METHOD OF COMPLIANCE		
PREScriptive	☒	PERFORMANCE ☐ ENERGY COST BUDGET ☐
PROVIDE A STANDARD RISER DIAGRAM WHICH INDICATES DESIGNATED POINTS FOR CHECK METERING. PROVIDE A STANDARD PANEL SCHEDULE DESCRIPTION WHICH IDENTIFIES DIFFERENT ENDUSE LOADS.		
LIGHTING SCHEDULE LAMP TYPE REQUIRED IN FIXTURE — SEE SCHEDULE ON DRAWINGS NUMBER OF LAMPS IN FIXTURE — SEE SCHEDULE ON DRAWINGS BALLAST TYPE USED IN FIXTURE — SEE SCHEDULE ON DRAWINGS NUMBER OF BALLASTS IN FIXTURE — SEE SCHEDULE ON DRAWINGS TOTAL WATTAGE PER FIXTURE — SEE SCHEDULE ON DRAWINGS TOTAL INTERIOR WATTAGE SPECIFIED VS ALLOWED — 26500 VS 34236 TOTAL EXTERIOR WATTAGE SPECIFIED VS ALLOWED — N/A		
EQUIPMENT SCHEDULES WITH MOTORS (NOT USED FOR MECHANICAL SYSTEMS) MOTOR HORSEPOWER — N/A NUMBER OF PHASES — N/A MINIMUM EFFICIENCY — N/A MOTOR TYPE — N/A NUMBER OF POLES — N/A		
DESIGNER STATEMENT: TO THE BEST OF MY KNOWLEDGE AND BELIEF, THE DESIGN OF THIS BUILDING COMPLIES WITH THE ELECTRICAL SYSTEM AND EQUIPMENT REQUIREMENTS OF THE NORTH CAROLINA ENERGY CODE 2012, CHAPTER 5. SIGNED: _____ NAME: TODD W. CAREY, P.E. TITLE: NORTH CAROLINA PROFESSIONAL ENGINEER #9079		

ELECTRICAL NOTES:

- GENERAL: ALL WORK SHALL CONFORM TO THE LATEST APPROVED EDITION OF THE NATIONAL ELECTRICAL CODE (NEC) AND ALL LOCAL JURISDICTIONAL CODES.
THE CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE DRAWINGS AND ANY APPLICABLE SPECIFICATIONS. IF A PROBLEM IS ENCOUNTERED IN COMPLYING WITH THIS REQUIREMENT, THE 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 THE OWNER HAS DIRECTED THE CORRECTIVE ACTION TO BE TAKEN.
THE CONTRACTOR SHALL COORDINATE THE PROPOSED LOCATIONS OF ALL ELECTRICAL MATERIALS AND EQUIPMENT WITH THE REPRESENTATIVES OF THE OTHER TRADES INVOLVED BEFORE STARTING INSTALLATION OF THOSE ITEMS.
COORDINATE THE INSTALLATION OF REQUIRED SUPPORTING DEVICES, CONDUIT, AND SLEEVES TO BE SET IN CAST-IN-PLACE CONCRETE AND OTHER STRUCTURAL COMPONENTS, AS THEY ARE CONSTRUCTED.
UNLESS OTHERWISE SPECIFIED ON THE PLANS, ALL SPECS ARE NOT INTENDED TO BE PROPRIETARY. SUBSTITUTIONS SHALL BE ACCEPTABLE FOR EQUAL RATED AND LISTED UNITS.
SCOPE: EXCEPT WHERE OTHERWISE SPECIFICALLY INDICATED ON THE DRAWINGS BY "FUTURE," "BY OTHERS," OR BY A SIMILAR NOTATION, IT IS THE INTENT THAT THE CONTRACTOR FURNISH ALL LABOR, MATERIALS, EQUIPMENT AND TOOLS NECESSARY TO PROVIDE ALL SYSTEMS IN COMPLETE AND OPERATING CONDITION.
EXCAVATE AS NECESSARY FOR THE INSTALLATION OF ELECTRICAL MATERIALS AND EQUIPMENT. VERIFY THE LOCATIONS OF EXISTING UNDERGROUND UTILITIES OR STRUCTURES BEFORE EXCAVATING AND EXERCISE CARE TO AVOID DAMAGE TO SUCH ITEMS DURING EXCAVATION. BACKFILL WITH EARTH FREE OF LARGE CLODS, LARGE STONES AND FOREIGN DEBRIS, DEPOSITED IN 6" LAYERS AND COMPACTED TO A DENSITY OF NOT LESS THAN THAT OF THE SURROUNDING UNDISTURBED MATERIAL.
MATERIALS: THE MATERIALS AND EQUIPMENT FURNISHED SHALL BE AS INDICATED ON THE DRAWINGS. SUBSTITUTIONS SHALL NOT BE MADE EXCEPT WHERE EXPRESSLY APPROVED BY THE OWNER OR HIS REPRESENTATIVE PRIOR TO STARTING INSTALLATION OF THE ITEMS. THE ELECTRICAL MATERIALS AND EQUIPMENT FURNISHED SHALL BE LISTED OR LABELED BY UNDERWRITERS LABORATORIES OR OTHER RECOGNIZED TESTING ORGANIZATION, AND SHALL BE ACCEPTABLE TO THE LOCAL BUILDING AUTHORITY.
GROUNDING: GROUNDING SHALL BE IN ACCORDANCE WITH ARTICLE 250, NEC.
SHARED NEUTRAL CONDUCTORS SHALL NOT BE ALLOWED UNLESS INSTALLED IN ACCORDANCE WITH NEC-210.4.
- CONDUITS: PROVIDE CONDUITS WHERE CALLED FOR ON PANEL SCHEDULES. ELECTRICAL METALLIC TUBING (EMT) SHALL BE INSTALLED ONLY IN DRY LOCATIONS, IN CONCRETE ABOVE GRADE, AND WHERE NOT SUBJECT TO PHYSICAL DAMAGE.
CONDUITS INSTALLED UNDERGROUND SHALL BE POLYVINYLCHLORIDE (PVC) AND SHALL NOT BE SMALLER THAN 3/4" ABOVE GRADE SIZE. WHERE PVC CONDUIT IS INSTALLED UNDERGROUND, ELBOWS TURNING UP AND CONDUIT EMERGING ABOVE GRADE SHALL BE RSC. THE TOPS OF CONDUITS IN EARTH SHALL BE NEMA 122 TYPE EPC-40-PVC (SCHEDULE 40) EXCEPT THAT WHERE UNDER AREAS SUBJECT TO HEAVY VEHICULAR TRAFFIC, IT SHALL BE NEMA 122 TYPE EPC-80-PVC (SCHEDULE 80).
ALL ARMOR CLAD CABLE (AC CABLE) WIRING SHALL MEET OR EXCEED ALL NEC, OSHA AND HUD STANDARDS.
CONDUCTORS: CONDUCTORS SHALL BE AS SCHEDULED ON PANEL SCHEDULES. ALL POWER CONDUCTORS SHALL NOT BE SMALLER THAN #14 AWG (CU), OR #12 AWG (AL). CONTROL CIRCUIT CONDUCTORS SHALL NOT BE SMALLER THAN #18 AWG CU.
CONDUCTORS SHALL BE CONTINUOUS FROM OUTLET TO OUTLET WITHOUT SPLICES EXCEPT WITHIN WIREWAY OR JUNCTION BOXES. MARK CONDUCTORS IN PANELS, PULL BOXES OR WIREWAYS AND TERMINAL STRIP TERMINALS FOR IDENTIFICATION OF CIRCUITS.
CONDUCTORS SHALL BE JOINED USING COMPRESSION SPLICES, EXCEPT THAT CONDUCTORS #10 AND SMALLER MAY BE JOINED USING WIRE NUT TYPE CONNECTORS. CONDUCTORS SHALL BE TERMINATED USING COMPRESSION OR PRESSURE TYPE TERMINAL LUGS, OR IN PRESSURE TERMINALS. COMPRESSION SPLICES USED ON CONDUCTORS #10 AND SMALLER SHALL BE THE SELF-INSULATED TYPE. OTHER SPLICES SHALL BE INSULATED USING 3M #33+ OR #88 PLASTIC TAPE. SPLICES IN WET LOCATIONS SHALL BE INSULATED WITH ELECTRICAL TAPE AND ENCAPSULATED WITH SPOTCOAST OR EQUAL POTTING COMPOUND.
PROVIDE AND INSTALL JUNCTION AND PULL BOXES WHERE INDICATED AND WHERE NECESSARY TO TERMINATE, TAP OFF, OR REDIRECT MULTIPLE CONDUIT RUNS, OF SIZE INDICATED OR AS REQUIRED BY NEC, WHERE FEEDER SPLICES ARE TO BE MADE, INSTALL BOXES LARGE ENOUGH TO PROVIDE AMPLE WORK SPACE.
LIGHTING FIXTURES: LIGHTING FIXTURES SHALL BE AS INDICATED ON THE DRAWINGS, AND SHALL BE INSTALLED COMPLY WITH LAMPS. FIXTURES WITH ADJUSTMENTS AFFECTING LIGHT DISTRIBUTION SHALL BE SET TO PROVIDE THE REQUIRED LIGHT PATTERNS PRIOR TO THE FINAL DEMONSTRATION TEST.
TESTS: AFTER EACH SYSTEM HAS BEEN COMPLETED, A FUNCTIONAL TEST SHALL BE PERFORMED TO DEMONSTRATE THAT THE SYSTEM OPERATES IN ACCORDANCE WITH THE REQUIREMENTS OF THE DRAWINGS. THE TEST SHALL BE PERFORMED BY THE CONTRACTOR IN THE PRESENCE OF THE OWNER OR HIS REPRESENTATIVE.
TERMINALS: ALL ELECTRICAL EQUIPMENT FURNISHED ON THIS PROJECT IS TO HAVE TERMINALS RATED FOR 75° C. OPERATION.
ALL PANELBOARDS, UNLESS OTHERWISE NOTED, SHALL BE PROVIDED WITH PLUG-IN TYPE CIRCUIT BREAKERS.

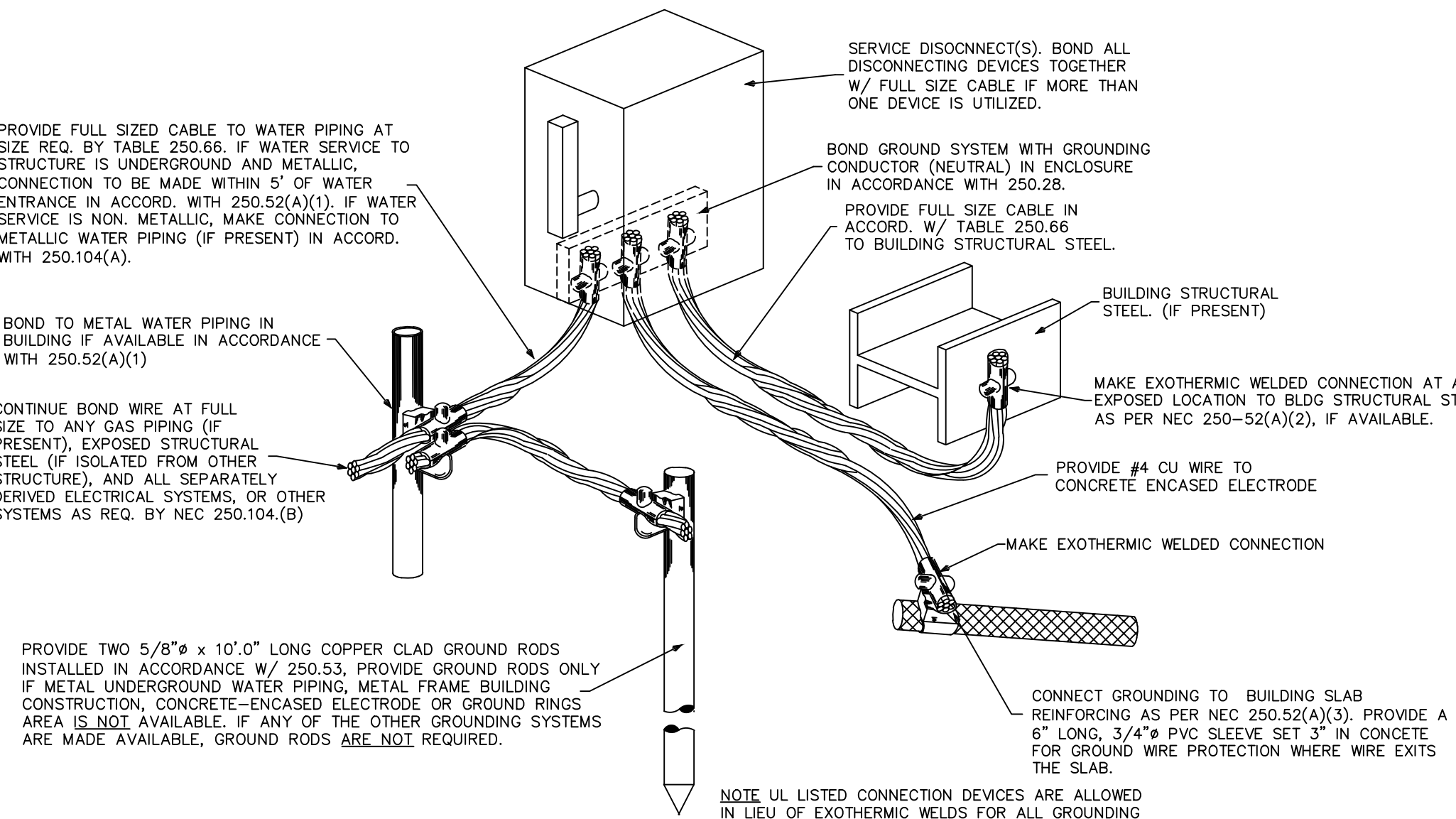
ELECTRICAL SYMBOLS LEGEND			
SYMBOLS		SYMBOLS	
DESCRIPTION	DESCRIPTION	DESCRIPTION	DESCRIPTION
	DUPLEX RECEPTACLE, MTD, +18\" AFF		TRANSFORMER - SIZE AS NOTED
	240 VOLT RECEPTACLE (HT, AS REQ.)		PANEL - SIZE AS NOTED
	QUADRUPLEX RECEPTACLE, MTD, +18\"		MOMENTARY CONTACT PUSH BUTTON
	COUNTERTOP HT, RECEPTACLE +42\"		F-FAN, M-MOTOR, P-PUMP
	SINGLE POLE SWITCH, MTD +47\"		SPECIAL OUTLET - AS REQUIRED
	THREE-WAY SWITCH, MTD +47\"		OKT, HOMERUN (B INDICATES PANEL)
	MANUAL STARTER SWITCH		22, DESIGNATES CIRCUIT NUMBER
	DIMMER SWITCH, MTD +47\"		EXIT SIGN: ONE SIDED, OR TWO SIDED
	SWITCH W/ ILLUM WHEN ON MTD +47\"		EMERGENCY LIGHTING
	THREE-WAY SWITCH W/ OCCU SENSOR		RECESSED MOUNTED LIGHTING FIXTURE
	SWITCH W/ OCCU SENSOR		DESIGNATES EXTERIOR TYPE
	JUNCTION BOX, FLUSH IF POSSIBLE		OVERHEAD OCCUPANCY SENSOR
	TELEPHONE / DATA OUTLET +18\"		HIGH-BAY HD LIGHTING FIXTURE
	DED. COMPUTER TERM. OUTLET +18\"		FLUORESCENT LIGHTING FIXTURE
	DISCONNECT SWITCH W/ STARTER		DESIGNATES FIXTURE TYPE
	DISCONNECT SWITCH		FLUORESCENT STRIP LIGHTING FIXTURE
	FLR MTD, FLUSH DUPLEX RECEPTACLE		LED LIGHTING FIXTURE
	FLR MTD, FLUSH QUAD. RECEPTACLE		DESIGNATES FIXTURE TYPE
	FLR MTD, FLUSH PHONE/DATA OUTLET		ISOLATED GROUND
	FLR MTD, FLUSH COMPUTER OUTLET		WEATHER-PROOF
	AREA SMOKE DETECTOR		BELOW COUNTER
	HEAT DETECTOR		TIME CLOCK - 24 HOUR
	DUCT SMOKE DETECTOR		GROUND FAULT INTERRUPTER
	FIRE ALARM MAN. PULL STATION +47\"		ABOVE FINISHED FLOOR
	HORN WITH STROBE LIGHT, MTD, +30\"		ELECTRIC WATER COOLER
	FIRE ALARM CONTROL PANEL		ABOVE SHOW WINDOW
	FIRE ALARM ANNUNCIATOR PANEL		BELOW SHOW WINDOW

LIGHTING FIXTURE SCHEDULE									
LABEL	TYPE OF FIXTURE	FINISH	LENS TYPE	VOLTAGE	LAMP	MANUFACTURER & MODEL NO.	REMARKS		
A	RECESSED 2'X4' LED TROFFER	WHITE	4000 LUMENS	120	39 W	LITHONIA EPANL 2X4-4000LM-BODRI-35K-2T-MVOLT			
B	LED 2' VANITY	WHITE	2400 LUMENS	120	26.5W	ALCON 11122			
C	8' LED STRIP LIGHT	WHITE	6000 LUMENS	120	48 W	LITHONIA LT21N L96 SMR 6000 LM MVOLT 40K BODRI			
D	LED 6" DOWNLIGHT	WHITE	2500 LUMENS	120	27W	LITHONIA LDN6-35/20-LO6AR-LSS-MVOLT			
E1	LED 6" DOWNLIGHT	WHITE	2500 LUMENS	120	27W	LITHONIA LDN6-35/20-LO6AR-LSS-MVOLT-WL	WET LOCATION		
EM	EMERGENCY EGRESS	WHITE		120	INCLUDED	LITHONIA ELM2	W/ BATTERY BACKUP		
EM1	EMERG EGRESS w/ REM HEAD	WHITE		120	INCLUDED	LITHONIA ELM6-12	W/ MODEL NX DUAL REMOTE HEAD. 90 MIN BATTERY		
EX	EXIT SIGN	WHITE		120	INCLUDED	LITHONIA LE-SW2R-120/277-ELN	W/ BATTERY BACKUP		
EX1	EMERG EGRESS / EXIT SIGN	WHITE		120	INCLUDED	LITHONIA LHQM-LED-120	W/ BATTERY BACKUP		
FR	RECESSED 2'X4' TROFFER	WHITE	PRISMATIC	120	(3) 32W T8	LITHONIA 2SPB6-332-FWA12-MVOLT-GEBOIS	W/ GAMBUTE MFR# 11120200004		
FW	RECESSED 2'X4' TROFFER	WHITE	PRISMATIC	120	(3) 32W T8	LITHONIA 2SPB6-332-FWA12-MVOLT-GEBOIS			
G	TRACK LIGHTING	*	*	120	-	WAC LIGHTING COMPANY	* - SEE CRUNCH CRITERIA FOR SPECIFICS ON TRACK HEADS		
H	SUSPENDED 1'X4 LED	SILVER	4000 LUMENS	120	55 W	GE EP-14-0A2-C-V-SLVR			

SUBSTITUTIONS ALLOWED ON LIGHT FIXTURES WITH OWNERS/ENGINEERS APPROVAL.

PANEL SCHEDULE MDP													
4000 AMP, 120/208 VOLT, THREE PHASE, FOUR WIRE, M.L.D., 65000 AMPS MINIMUM A.I.C. BRACING, SURFACE MOUNTED, TYPE NEMA 1 ENCLOSURE													
#	BKR.	WIRE AND CONDUIT				LOAD DESCRIPTION	WIRE AND CONDUIT				BKR.		
		COND.	NEUTRAL	COND	C. KEYS		KEYS	C.	COND	NEUTRAL		COND.	
1						0	40800	0	0	0	0	0	2
3	450/3	2 SETS #4/0	---	#2	(2) CHAL	0	40800	0	0	0	0	0	4
					EXTG RTU-1	0	0	40800	0	0	0	0	6
7						0	0	0	0	0	0	0	8
9	100/3	---	---	---	---	3920	32195	0	0	0	0	0	10
11					---	3620	36100	0	0	0	0	0	12
13					---	4340	36100	0	0	0	0	0	14
15	100/3	---	---	---	---	0	37387	0	0	0	0	0	16
17					---	0	37387	0	0	0	0	0	18
					---	0	37387	0	0	0	0	0	18
WIRE/CONDUIT KEY						110382	114207	112674	PEAK PHASE (C) UNBALANCED NEUTRAL LOAD AMPS = 36.2 AMPS				
1234						L-75-96 Deg. F.			NEW DIVERSIFIED LOAD AT 208 VOLT, THREE PHASE = 536.8 AMPS				
1						337,263							
1						PRINTED ON PANELS PROGRAM SERIAL NUMBER 2001.4001							
1						REGISTERED TO - TODD W. CAREY AND ASSOCIATES							

PANEL SCHEDULE MDP2																		
1600 AMP, 120/208 VOLT, THREE PHASE, FOUR WIRE, M.L.D., 65000 AMPS MINIMUM A.I.C. BRACING, SURFACE MOUNTED, TYPE NEMA 1 ENCLOSURE																		
#	BKR.	WIRE AND CONDUIT			KEYS	LOAD DESCRIPTION	NEUT.	LINE A	LINE B	LINE C	LOAD DESCRIPTION	WIRE AND CONDUIT				BKR.		
		COND.	NEUTRAL	GN'D								KEYS	C.	GN'D	NEUTRAL		COND.	
1	400/3	500 MCM	500 MCM	#3	3	CHAL	EXTG PANELBOARD LA / SLA	9213	10941	22863						2		
5								6200		7958								
7								5460		22863								
9	400/3	500 MCM	500 MCM	#3	3	CHAL	EXTG PANELBOARD LB / SLB			7196	RTU-4	CHAL	2	#4	---	250 MCM	250/3	4
13								1887	1887	22863								6
15								1383	0	1580								8
17								0	0	0	EXTG PANELBOARD CL	CHAL	2	#6	#3/0	#3/0	200/3	10
19								8966	8966	8966								12
21								4560	4560									14
23	400/3	500 MCM	500 MCM	#3	3	CHAL	EXTG PANELBOARD R	8246		8246								16
25								6000	6000		EXTG PANELBOARD PS	CHAL	2	#6	#3/0	#3/0	200/3	18
27								6598		6598								20
29								3000		3000								22
31	200/3	#3/0	#3/0	#6	2	CHAL	EXTG PANELBOARD RA	600	600	600								24
33								0	6093		EXTG PANELBOARD I	CHAL	3	#3	500 MCM	500 MCM	400/3	26
35								0	0	0								28
37								20895	20895									30
39	200/3	500 MCM	500 MCM	#3	3	CHAL	EXTG PANELBOARD H	20895	0	20895								32
41								18495	0	18495	SPARE BKR (REMOVED LOAD)	----	----	----	----	----	100/3	34
43								0	0	0								36
45								0	0	0								38
47	200/3	---	---	---	---	---	SPARE BKR (REMOVED LOAD)	0	0	0	SPARE BKR (REMOVED LOAD)	----	----	----	----	----	100/3	40
49								0	0	0								42
51								0	0	0								44
53	20/3	#12	#12	#12	1/2	CHAL	EXTG PANELBOARD A	0	0	0	SPACE							46
55								0	0	0	SPACE							48
57								0	0	0	SPACE							50
59								0	0	0	SPACE							52
61								0	0	0	SPACE							54
63								0	0	0	SPACE							56
65								0	0	0	SPACE							58
67								0	0	0	SPACE							60
69								0	0	0	SPACE							62
71								0	0	0	SPACE							64
73								0	0	0	SPACE							66
75								0	0	0	SPACE							68
77								0	0	0	SPACE							70
79								0	0	0	SPACE							72
81								0	0	0	SPACE							74
83								0	0	0	SPACE							76
85								0	0	0	SPACE							78
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245								0	0	0	SPACE							238
247								0	0	0	SPACE							240
249								0	0	0	SPACE							242
251																		



3 GROUNDING DETAIL

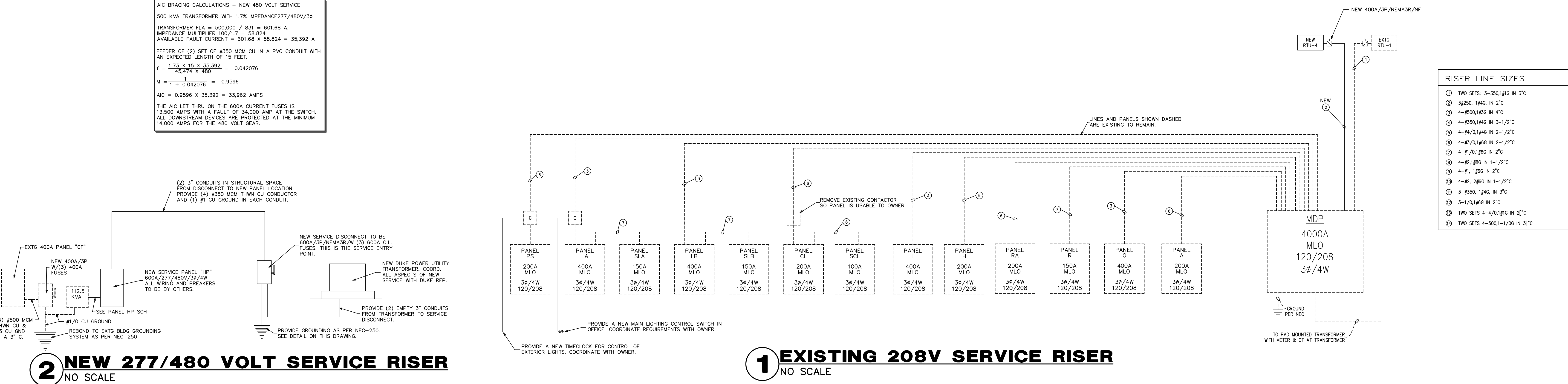
NO SCALE

AIC BRACING CALCULATIONS - NEW 480 VOLT SERVICE
500 KVA TRANSFORMER WITH 1.7% IMPEDANCE 277/480V/3P
TRANSFORMER FLA = 500,000 / 831 = 601.68 A
IMPEDANCE MULTIPLIER 100/1.7 = 58.824
AVAILABLE FAULT CURRENT = 601.68 X 58.824 = 35,392 A
FEEDER OF (2) SET OF #500 MCM CU IN A PVC CONDUIT WITH AN EXPECTED LENGTH OF 15 FEET.
 $I = 1.73 \times 15 \times 35,392 = 0.042076$
 $M = 1 + 0.042076 = 0.9596$
AIC = 0.9596 X 35,392 = 33,962 AMPS
THE AIC LET THRU ON THE 600A CURRENT FUSES IS 13,500 AMPS WITH A FAULT OF 34,000 AMP AT THE SWITCH. ALL DOWNSTREAM DEVICES ARE PROTECTED AT THE MINIMUM 14,000 AMPS FOR THE 480 VOLT GEAR.

PANEL HP DIVERSIFICATION CALCULATIONS	
RECEPTACLES (B) - 1440 VA TOTAL	
LIGHTING - FIRST 10 KVA AT 100% - 1440	
MISC CONTINUOUS LOADS AT 125% - 15705	
1500 X 1.25 - 1875	
TOTAL DIVERSIFIED PANEL LOAD	19980
LOAD AT 277/480V/3-PHASE/4-WIRE - 24.5A	

PANEL MDP2 DIVERSIFICATION CALCULATIONS	
RECEPTACLES (B1) - 1450 VA TOTAL	
LIGHTING - FIRST 10 KVA AT 100% - 1450	
MISC CONTINUOUS LOADS AT 125% - 15705	
1500 X 1.25 - 1875	
TOTAL DIVERSIFIED PANEL LOAD	22046
LOAD AT 120/208V/3-PHASE/4-WIRE - 611.2A	

PANEL MDP DIVERSIFICATION CALCULATIONS	
RECEPTACLES (B3) - 16810 VA TOTAL	
LIGHTING - FIRST 10 KVA AT 100% - 16810	
MISC CONTINUOUS LOADS AT 125% - 15705	
1500 X 1.25 - 1875	
TOTAL DIVERSIFIED PANEL LOAD	374619
LOAD AT 120/208V/3-PHASE/4-WIRE - 1040.6A	



2 NEW 277/480 VOLT SERVICE RISER

NO SCALE

1 EXISTING 208V SERVICE RISER

NO SCALE

E2.0

PANEL SCHEDULE H												
225 AMP, 120/208 VOLT, THREE PHASE, FOUR WIRE, M.L.D., 22000 AMPS MINIMUM A.I.C. BRACING, SURFACE MOUNTED, TYPE NEMA 1 ENCLOSURE												
#	BR.	WIRE AND CONDUIT	LOAD DESCRIPTION	NEUT.	LINE A	LINE B	LINE C	LOAD DESCRIPTION	KEYS	C.	UND NEUTRAL	COND.
1	20/1	#10	#10	#10	1/2	CHAL	1/2	CHAL	1/2	#10	#10	20/1
2	20/1	#10	#10	#10	1/2	CHAL	1/2	CHAL	1/2	#10	#10	20/1
3	20/1	#10	#10	#10	1/2	CHAL	1/2	CHAL	1/2	#10	#10	20/1
4	20/1	#10	#10	#10	1/2	CHAL	1/2	CHAL	1/2	#10	#10	20/1
5	20/1	#10	#10	#10	1/2	CHAL	1/2	CHAL	1/2	#10	#10	20/1
6	20/1	#10	#10	#10	1/2	CHAL	1/2	CHAL	1/2	#10	#10	20/1
7	20/1	#10	#10	#10	1/2	CHAL	1/2	CHAL	1/2	#10	#10	20/1
8	20/1	#10	#10	#10	1/2	CHAL	1/2	CHAL	1/2	#10	#10	20/1
9	20/1	#10	#10	#10	1/2	CHAL	1/2	CHAL	1/2	#10	#10	20/1
10	20/1	#10	#10	#10	1/2	CHAL	1/2	CHAL	1/2	#10	#10	20/1
11	20/1	#10	#10	#10	1/2	CHAL	1/2	CHAL	1/2	#10	#10	20/1
12	20/1	#10	#10	#10	1/2	CHAL	1/2	CHAL	1/2	#10	#10	20/1
13	20/1	#10	#10	#10	1/2	CHAL	1/2	CHAL	1/2	#10	#10	20/1
14	20/1	#10	#10	#10	1/2	CHAL	1/2	CHAL	1/2	#10	#10	20/1
15	20/1	#10	#10	#10	1/2	CHAL	1/2	CHAL	1/2	#10	#10	20/1
16	20/1	#10	#10	#10	1/2	CHAL	1/2	CHAL	1/2	#10	#10	20/1
17	20/1	#10	#10	#10	1/2	CHAL	1/2	CHAL	1/2	#10	#10	20/1
18	20/1	#10	#10	#10	1/2	CHAL	1/2	CHAL	1/2	#10	#10	20/1
19	20/1	#10	#10	#10	1/2	CHAL	1/2	CHAL	1/2	#10	#10	20/1
20	20/1	#10	#10	#10	1/2	CHAL	1/2	CHAL	1/2	#10	#10	20/1
21	20/1	#10	#10	#10	1/2	CHAL	1/2	CHAL	1/2	#10	#10	20/1
22	20/1	#10	#10	#10	1/2	CHAL	1/2	CHAL	1/2	#10	#10	20/1
23	20/1	#10	#10	#10	1/2	CHAL	1/2	CHAL	1/2	#10	#10	20/1
24	20/1	#10	#10	#10	1/2	CHAL	1/2	CHAL	1/2	#10	#10	20/1
25	20/1	#10	#10	#10	1/2	CHAL	1/2	CHAL	1/2	#10	#10	20/1
26	20/1	#10	#10	#10	1/2	CHAL	1/2	CHAL	1/2	#10	#10	20/1
27	20/1	#10	#10	#10	1/2	CHAL	1/2	CHAL	1/2	#10	#10	20/1
28	20/1	#10	#10	#10	1/2	CHAL	1/2	CHAL	1/2	#10	#10	20/1
29	20/1	#10	#10	#10	1/2	CHAL	1/2	CHAL	1/2	#10	#10	20/1
30	20/1	#10	#10	#10	1/2	CHAL	1/2	CHAL	1/2	#10	#10	20/1
31	20/1	#10	#10	#10	1/2	CHAL	1/2	CHAL	1/2	#10	#10	20/1
32	20/1	#10	#10	#10	1/2	CHAL	1/2	CHAL	1/2	#10	#10	20/1
33	20/1	#10	#10	#10	1/2	CHAL	1/2	CHAL	1/2	#10	#10	20/1
34	20/1	#10	#10	#10	1/2	CHAL	1/2	CHAL	1/2	#10	#10	20/1
35	20/1	#10	#10	#10	1/2	CHAL	1/2	CHAL	1/2	#10	#10	20/1
36	20/1	#10	#10	#10	1/2	CHAL	1/2	CHAL	1/2	#10	#10	20/1
37	20/1	#10	#10	#10	1/2	CHAL	1/2	CHAL	1/2	#10	#10	20/1
38	20/1	#10	#10	#10	1/2	CHAL	1/2	CHAL	1/2	#10	#10	20/1
39	20/1	#10	#10	#10	1/2	CHAL	1/2	CHAL	1/2	#10	#10	20/1
40	20/1	#10	#10	#10	1/2	CHAL	1/2	CHAL	1/2	#10	#10	20/1
41	20/1	#10	#10	#10	1/2	CHAL	1/2	CHAL	1/2	#10	#10	20/1
42	20/1	#10	#10	#10	1/2	CHAL	1/2	CHAL	1/2	#10	#10	20/1
WIRE/CONDUIT KEY WIRING TYPE INSULATION CONDUIT TYPE TEMP RATING												
1-TEMP RATING 2-CONDUIT TYPE 3-INSULATION 4-WIRING TYPE												
PRINTED ON PANELS PROGRAM SERIAL NUMBER 2001.4001												
REGISTERED TO - TODD W. CAREY AND ASSOCIATES												

PANEL NOTES:
* - THIS IS TO BE A NEC 210.4 MULTI BRANCH CIRCUIT WITH SHARED NEUTRAL.

THE NUMBERS IN CIRCLES CORRESPOND TO THE MULTI BRANCH NUMBERS SHOWN ON E-1.1

PANEL SCHEDULE G												
400 AMP, 120/208 VOLT, THREE PHASE, FOUR WIRE, M.L.D., 22000 AMPS MINIMUM A.I.C. BRACING, SURFACE MOUNTED, TYPE NEMA 1 ENCLOSURE												
#	BR.	WIRE AND CONDUIT	LOAD DESCRIPTION	NEUT.	LINE A	LINE B	LINE C	LOAD DESCRIPTION	KEYS	C.	UND NEUTRAL	COND.
1	20/1	#12	#12	#12	1/2	CHAL	1/2	CHAL	1/2	#12	#12	20/1
2	20/1	#12	#12	#12	1/2	CHAL	1/2	CHAL	1/2	#12	#12	20/1
3	20/1	#12	#12	#12	1/2	CHAL	1/2	CHAL	1/2	#12	#12	20/1
4	20/1	#12	#12	#12	1/2	CHAL	1/2	CHAL	1/2	#12	#12	20/1
5	20/1	#12	#12	#12	1/2	CHAL	1/2	CHAL	1/2	#12	#12	20/1
6	20/1	#12	#12	#12	1/2	CHAL	1/2	CHAL	1/2	#12	#12	20/1
7	20/1	#12	#12	#12	1/2	CHAL	1/2	CHAL	1/2	#12	#12	20/1
8	20/1	#12	#12	#12	1/2	CHAL	1/2	CHAL	1/2	#12	#12	20/1
9	20/1	#12	#12	#12	1/2	CHAL	1/2	CHAL	1/2	#12	#12	20/1
10	20/1	#12	#12	#12	1/2	CHAL	1/2	CHAL	1/2	#12	#12	20/1
11	20/1	#12	#12	#12	1/2	CHAL	1/2	CHAL	1/2	#12	#12	20/1
12	20/1	#12	#12	#12	1/2	CHAL	1/2	CHAL	1/2	#12	#12	20/1
13	20/1	#12	#12	#12	1/2	CHAL	1/2	CHAL	1/2	#12	#12	20/1
14	20/1	#12	#12	#12	1/2	CHAL	1/2	CHAL	1/2	#12	#12	20/1
15	20/1	#12	#12	#12	1/2	CHAL	1/2	CHAL	1/2	#12	#12	20/1
16	20/1	#12	#12	#12	1/2	CHAL	1/2	CHAL	1/2	#12	#12	20/1
17	20/1	#12	#12	#12	1/2	CHAL	1/2	CHAL	1/2	#12	#12	20/1
18	20/1	#12	#12	#12	1/2	CHAL	1/2	CHAL	1/2	#12	#12	20/1
19	20/1	#12	#12	#12	1/2	CHAL	1/2	CHAL	1/2	#12	#12	20/1
20	20/1	#12	#12	#12	1/2	CHAL	1/2	CHAL	1/2	#12	#12	20/1
21	20/1	#12	#12	#12	1/2	CHAL	1/2	CHAL	1/2	#12	#12	20/1
22	20/1	#12	#12	#12	1/2	CHAL	1/2	CHAL	1/2	#12	#12	20/1
23	20/1	#12	#12	#12	1/2	CHAL	1/2	CHAL	1/2	#12	#12	20/1
24	20/1	#12	#12	#12	1/2	CHAL	1/2	CHAL	1/2	#12	#12	20/1
25	20/1	#12	#12	#12	1/2	CHAL	1/2	CHAL	1/2	#12	#12	20/1
26	20/1	#12	#12	#12	1/2	CHAL	1/2	CHAL	1/2	#12	#12	20/1
27	20/1	#12	#12	#12	1/2	CHAL	1/2	CHAL	1/2	#12	#12	20/1
28	20/1	#12	#12	#12	1/2	CHAL	1/2	CHAL	1/2	#12	#12	20/1
29	20/1	#12	#12	#12	1/2	CHAL	1/2	CHAL	1/2	#12	#12	20/1
30	20/1	#12	#12	#12	1/2	CHAL	1/2	CHAL	1/2	#12	#12	20/1
31	20/1	#12	#12	#12	1/2	CHAL	1/2	CHAL	1/2	#12	#12	20/1
32	20/1	#12	#12	#12	1/2	CHAL	1/2	CHAL	1/2	#12	#12	20/1
33	20/1	#12	#12	#12	1/2	CHAL	1/2	CHAL	1/2	#12	#12	20/1
34	20/1	#12	#12	#12	1/2	CHAL	1/2	CHAL	1/2	#12	#12	20/1
35	20/1	#12	#12	#12	1/2	CHAL	1/2	CHAL	1/2	#12	#12	20/1
36	20/1	#12	#12	#12	1/2	CHAL	1/2	CHAL	1/2	#12	#12	20/1
37	20/1	#12	#12	#12	1/2	CHAL	1/2	CHAL	1/2	#12	#12	20/1
38	20/1	#12	#12	#12	1/2	CHAL	1/2	CHAL	1/2	#12	#12	20/1
39	20/1	#12	#12	#12	1/2	CHAL	1/2	CHAL	1/2	#12	#12	20/1
40	20/1	#12	#12	#12	1/2	CHAL	1/2	CHAL	1/2	#12	#12	20/1
41	20/1	#12	#12	#12	1/2	CHAL	1/2	CHAL	1/2	#12	#12	20/1
42	20/1	#12	#12	#12	1/2	CHAL	1/2	CHAL	1/2	#12	#12	20/1
WIRE/CONDUIT KEY WIRING TYPE INSULATION CONDUIT TYPE TEMP RATING												
1-TEMP RATING 2-CONDUIT TYPE 3-INSULATION 4-WIRING TYPE												
PRINTED ON PANELS PROGRAM SERIAL NUMBER 2001.4001												
REGISTERED TO - TODD W. CAREY AND ASSOCIATES												

PANEL NOTES:
* - PROVIDE BUCK AND BOOST TRANSFORMER AT TANNING STATION

PANEL SCHEDULE CL															
225 AMP, 120/208 VOLT, THREE PHASE, FOUR WIRE, M.L.D., 22000 AMPS MINIMUM A.I.C. BRACING, SURFACE MOUNTED, TYPE NEMA 1 ENCLOSURE															
#	BR.	WIRE AND CONDUIT				LOAD DESCRIPTION				WIRE AND CONDUIT				BR.	
		COND.	NEUTRAL	GN	C	KEYS		LINE A	LINE B	LINE C		KEYS	C	UND NEUTRAL	COND.
1	20/1	---	---	---	---	---	SPARE BKR (REVOKED LOAD)	0	0	0	---	---	---	---	20/1
3	20/1	---	---	---	---	---	SPARE BKR (REVOKED LOAD)	0	0	0	---	---	---	---	20/1
5	20/1	---	---	---	---	---	SPARE BKR (REVOKED LOAD)	0	0	0	---	---	---	---	20/1
7	20/1	---	---	---	---	---	SPARE BKR (REVOKED LOAD)	0	0	0	---	---	---	---	20/1
9	20/1	---	---	---	---	---	SPARE BKR (REVOKED LOAD)	0	0	0	---	---	---	---	20/1
11	20/1	---	---	---	---	---	SPARE BKR (REVOKED LOAD)	0	0	0	---	---	---	---	20/1
13	20/1	---	---	---	---	---	SPARE BKR (REVOKED LOAD)	0	0	0	---	---	---	---	20/1
15	20/1	---	---	---	---	---	SPARE BKR (REVOKED LOAD)	0	0	0	---	---	---	---	20/1
17	20/1	---	---	---	---	---	SPARE BKR (REVOKED LOAD)	0	0	0	---	---	---	---	20/1
19	20/1	---	---	---	---	---	SPARE BKR (REVOKED LOAD)	0	0	0	---	---	---	---	20/1
21	20/1	---	---	---	---	---	SPARE BKR (REVOKED LOAD)	0	0	0	---	---	---	---	20/1
23	20/1	---	---	---	---	---	SPARE BKR (REVOKED LOAD)	0	0	0	---	---	---	---	20/1
25	20/1	---	---	---	---	---	SPARE BKR (REVOKED LOAD)	0	0	0	---	---	---	---	20/1
27	20/1	---	---	---	---	---	SPARE BKR (REVOKED LOAD)	0	0	0	---	---	---	---	20/1
29	20/1	---	---	---	---	---	SPARE BKR (REVOKED LOAD)	0	0	0	---	---	---	---	20/1
31	20/1	---	---	---	---	---	SPARE BKR (REVOKED LOAD)	0	0	0	---	---	---	---	20/1
33	20/1	---	---	---	---	---	SPARE BKR (REVOKED LOAD)	0	0	0	---	---	---	---	20/1
35	20/1	---	---	---	---	---	SPARE BKR (REVOKED LOAD)	0	0	0	---	---	---	---	20/1
37	20/1	---	---	---	---	---	SPARE BKR (REVOKED LOAD)	0	0	0	---	---	---	---	20/1
39	20/1	---	---	---	---	---	SPARE BKR (REVOKED LOAD)	0	0	0	---	---	---	---	20/1
41	20/1	---	---	---	---	---	SPARE BKR (REVOKED LOAD)	0	0	0	---	---	---	---	20/1
43	20/1	---	---	---	---	---	SPARE BKR (REVOKED LOAD)	0	0	0	---	---	---	---	20/1
45	20/1	---	---	---	---	---	SPARE BKR (REVOKED LOAD)	0	0	0	---	---	---	---	20/1
47	20/1	---	---	---	---	---	SPARE BKR (REVOKED LOAD)	0	0	0	---	---	---	---	20/1
49	20/1	---	---	---	---	---	SPARE BKR (REVOKED LOAD)	0	0	0	---	---	---	---	20/1
51	20/1	---	---	---	---	---	SPARE BKR (REVOKED LOAD)	0	0	0	---	---	---	---	20/1
53	20/1	---	---	---	---	---	SPARE BKR (REVOKED LOAD)	0	0	0	---	---	---	---	20/1
55	20/1	---	---	---	---	---	SPARE BKR (REVOKED LOAD)	0	0	0	---	---	---	---	20/1
57	20/1	---	---	---	---	---	SPARE BKR (REVOKED LOAD)	0	0	0	---	---	---	---	20/1
59	20/1	---	---	---	---	---	SPARE BKR (REVOKED LOAD)	0	0	0	---	---	---	---	20/1
61	20/1	---	---	---	---	---	SPARE BKR (REVOKED LOAD)	0	0	0	---	---	---	---	20/1
63	20/1	---	---	---	---	---	SPARE BKR (REVOKED LOAD)	0	0	0	---	---	---	---	20/1
65	20/1	---	---	---	---	---	SPARE BKR (REVOKED LOAD)	0	0	0	---	---	---	---	20/1
67	20/1	---	---	---	---	---	SPARE BKR (REVOKED LOAD)	0	0	0	---	---	---	---	20/1
69	20/1	---	---	---	---	---	SPARE BKR (REVOKED LOAD)	0	0	0	---	---	---	---	20/1
71	20/1	---	---	---	---	---	SPARE BKR (REVOKED LOAD)	0	0	0	---	---	---	---	20/1
73	20/1	---	---	---	---	---	SPARE BKR (REVOKED LOAD)	0	0	0	---	---	---	---	20/1
75	20/1	---	---	---	---	---	SPARE BKR (REVOKED LOAD)	0	0	0	---	---	---	---	20/1
77	20/1	---	---	---	---	---	SPARE BKR (REVOKED LOAD)	0	0	0	---	---	---	---	20/1
79	20/1	---	---	---	---	---	SPARE BKR (REVOKED LOAD)	0	0	0	---	---	---	---	20/1
81	20/1	---	---	---	---	---	SPARE BKR (REVOKED LOAD)	0	0	0	---	---	---	---	20/1
83	20/1	---	---	---	---	---	SPARE BKR (REVOKED LOAD)	0	0	0	---	---	---	---	20/1
85	20/1	---	---	---	---	---	SPARE BKR (REVOKED LOAD)	0	0	0	---	---	---	---	20/1
87	20/1	---	---	---	---	---	SPARE BKR (REVOKED LOAD)	0	0	0	---	---	---	---	20/1
89	20/1	---	---	---	---	---	SPARE BKR (REVOKED LOAD)	0	0	0	---	---	---	---	20/1
91	20/1	---	---	---	---	---	SPARE BKR (REVOKED LOAD)	0	0	0	---	---	---	---	20/1
93	20/1	---	---	---	---	---	SPARE BKR (REVOKED LOAD)	0	0	0	---	---	---	---	20/1
95	20/1	---	---	---	---	---	SPARE BKR (REVOKED LOAD)	0	0	0	---	---	---	---	20/1
97	20/1	---	---	---	---	---	SPARE BKR (REVOKED LOAD)	0	0	0	---	---	---	---	20/1
99	20/1	---	---	---	---	---	SPARE BKR (REVOKED LOAD)	0	0	0	---	---	---	---	20/1
101	20/1	---	---	---	---	---	SPARE BKR (REVOKED LOAD)	0	0	0	---	---	---	---	20/1
103	20/1	---	---	---	---	---	SPARE BKR (REVOKED LOAD)	0	0	0	---	---	---	---	20/1
105	20/1	---	---	---	---	---	SPARE BKR (REVOKED LOAD)	0	0	0	---	---	---	---	20/1
107	20/1	---	---	---	---	---	SPARE BKR (REVOKED LOAD)	0	0	0	---	---	---	---	20/1
109	20/1	---	---	---	---	---	SPARE BKR (REVOKED LOAD)	0	0	0	---	---	---	---	20/1
111	20/1	---	---	---	---	---	SPARE BKR (REVOKED LOAD)	0	0	0	---	---	---	---	20/1
113	20/1	---	---	---	---	---	SPARE BKR (REVOKED LOAD)	0	0	0	---	---	---	---	20/1
115	20/1	---	---	---	---	---	SPARE BKR (REVOKED LOAD)	0	0	0	---	---	---	---	20/1
117	20/1	---	---	---	---	---	SPARE BKR (REVOKED LOAD)	0	0	0	---	---	---	---	20/1
119	20/1	---	---	---	---	---	SPARE BKR (REVOKED LOAD)	0	0	0	---	---	---	---	20/1
121	20/1	---	---	---	---	---	SPARE BKR (REVOKED LOAD)	0	0	0	---	---	---	---	20/1
123	20/1	---	---	---	---	---	SPARE BKR (REVOKED LOAD)	0	0	0	---	---	---	---	20/1
125	20/1	---	---	---	---	---	SPARE BKR (REVOKED LOAD)	0	0	0	---	---	---	---	20/1
127	20/1	---	---	---	---	---	SPARE BKR (REVOKED LOAD)	0	0	0	---	---	---	---	20/1
129	20/1	---	---	---	---	---	SPARE BKR (REVOKED LOAD)	0	0	0	---	---	---	---	20/1
131	20/1	---	---	---	---	---	SPARE BKR (REVOKED LOAD)	0	0	0	---	---	---	---	20/1
133	20/1	---	---	---	---	---	SPARE BKR (REVOKED LOAD)	0	0	0	---	---	---	---	20/1
135	20/1	---	---	---	---	---	SPARE BKR (REVOKED LOAD)	0	0	0	---	---	---	---	20/1
137	20/1	---	---	---	---	---	SPARE BKR (REVOKED LOAD)	0	0	0	---	---	---	---	20/1
139	20/1	---	---	---	---	---	SPARE BKR (REVOKED LOAD)	0	0	0	---	---	---	---	20/1
141	20/1	---	---	---	---	---	SPARE BKR (REVOKED LOAD)	0	0	0	---	---	---	---	20/1
143	20/1	---	---	---	---	---	SPARE BKR (REVOKED LOAD)	0	0	0	---	---	---	---	20/1
145	20/1	---	---	---	---	---	SPARE BKR (REVOKED LOAD)	0	0	0	---	---	---	---	20/1
147	20/1	---	---	---	---	---	SPARE BKR (REVOKED LOAD)	0	0	0	---	---	---	---	20/1
149	20/1	---	---	---	---	---	SPARE BKR (REVOKED LOAD)	0	0	0	---	---	---	---	20/1
151	20/1	---	---	---	---	---	SPARE BKR (REVOKED LOAD)	0	0	0	---	---	---	---	20/1
153	20/1	---	---	---	---	---	SPARE BKR (REVOKED LOAD)	0	0	0	---	---	---	---	20/1
155	20/1	---	---	---	---	---	SPARE BKR (REVOKED LOAD)	0	0	0	---	---	---	---	20/1
157	20/1	---	---	---	---	---	SPARE BKR (REVOKED LOAD)	0	0	0	---	---	---	---	20/1
159	20/1	---	---	---	---	---	SPARE BKR (REVOKED LOAD)	0	0	0	---	---	---	---	20/1
161	20/1	---	---	---	---	---	SPARE BKR (REVOKED LOAD)	0	0	0	---	---	---	---	20/1
163	20/1	---	---	---	---	---	SPARE BKR (REVOKED LOAD)	0	0	0	---	---	---	---	20/1
165	20/1	---	---	---	---	---	SPARE BKR (REVOKED LOAD)	0	0	0	---	---	---	---	20/1
167	20/1	---	---	---	---	---	SPARE BKR (REVOKED LOAD)	0	0	0	---	---	---	---	20/1
169	20/1	---	---	---	---	---	SPARE BKR (REVOKED LOAD)	0	0	0	---	---	---	---	20/1
171	20/1	---	---	---	---	---	SPARE BKR (REVOKED LOAD)	0	0	0	---	---	---	---	20/1
173	20/1	---	---	---	---	---	SPARE BKR (REVOKED LOAD)	0	0	0	---	---	---	---	20/1
175	20/1	---	---	---	---	---	SPARE BKR (REVOKED LOAD)	0	0	0	---	---	---	---	20/1
177	20/1	---	---	---	---	---	SPARE BKR (REVOKED LOAD)	0	0	0	---	---	---	---	20/1
179	20/1	---	---	---	---	---	SPARE BKR (REVOKED LOAD)	0	0	0	---	---	---	---	20/1
181	20/1	---	---	---	---	---	SPARE BKR (REVOKED LOAD)	0	0	0	---	---	---	---	20/1
183	20/1	---	---	---	---	---	SPARE BKR (REVOKED LOAD)	0	0	0	---	---	---	---	20/1
185	20/1	---	---	---	---	---	SPARE BKR (REVOKED LOAD)	0	0	0	---	---	---	---	20/1
187	20/1	---	---	---	---	---	SPARE BKR (REVOKED LOAD)	0	0	0	---	---	---	---	20/1
189	20/1	---	---	---	---	---	SPARE BKR (REVOKED LOAD)	0	0	0	---	---	---	---	20/1
191	20/1	---	---	---	---	---	SPARE BKR (REVOKED LOAD)	0	0	0	---	---	---	---	20/1
193	20/1	---	---	---	---	---	SPARE BKR (REVOKED LOAD)	0	0	0	---	---	---	---	20/1
195	20/1	---	---	---	---	---	SPARE BKR (REVOKED LOAD)	0	0	0	---	---	---	---	20/1
197	20/1	---	---	---	---	---	SPARE BKR (REVOKED LOAD)	0	0	0	---	---	---	---	20/1
199	20/1	---	---	---	---	---	SPARE BKR (REVOKED LOAD)	0	0	0	---	---	---	---	20/1
201	20/1	---	---	---	---	---	SPARE BKR (REVOKED LOAD)	0	0	0	---	---	---	---	20/1
203	20/1	---	---	---	---	---	SPARE BKR (REVOKED LOAD)	0	0	0	---	---	---	---	20/1
205	20/1	---	---	---	---	---	SPARE BKR (REVOKED LOAD)	0	0	0	---	---	---	---	20/1
207	20/1	---	---	---	---	---	SPARE BKR (REVOKED LOAD)	0	0	0	---	---	---	---	20/1
209	20/1	---	---	---	---	---	SPARE BKR (REVOKED LOAD)	0	0	0	---	---	---	---	20/1
211	20/1	---	---	---	---	---	SPARE BKR (REVOKED LOAD)	0	0	0	---	---	---	---	20/1
213	20/1	---	---	---	---	---	SPARE BKR (REVOKED LOAD)	0	0	0	---	---	---	---	20/1
215	20/1	---	---	---	---	---	SPARE BKR (REVOKED LOAD)	0	0	0	---	---	---	---	20/1
217	20/1	---	---	---	---	---	SPARE BKR (REVOKED LOAD)	0	0	0	---	---	---	---	20/1
219	20/1	---	---	---	---	---	SPARE BKR (REVOKED LOAD)	0	0	0	---	---	---	---	20/1
221	20/1	---	---	---	---	---	SPARE BKR (REVOKED LOAD)	0	0	0	---	---	---	---	20/1
223	20/1	---	---	---	---	---	SPARE BKR (REVOKED LOAD)	0	0	0	---	---	---	---	20/1
225	20/1	---	---	---	---	---	SPARE BKR (REVOKED LOAD)	0	0	0	---	---	---	---	20/1
227	20/1	---	---	---	---	---	SPARE BKR (REVOKED LOAD)	0	0	0	---	---	---	---	



DEVICE MOUNTING HEIGHTS (PER NFPA 72)



- | DEVICE | ALARM | TROUBLE | SUPERVISORY |
|-------------------|-------|---------|-------------|
| PULL STATION | X | | |
| SMOKE DETECTOR | X | | |
| DUCT DETECTOR | | | X |
| TAMPER SWITCH | | | X |
| FLOW SWITCH | X | | |
| WIRING FAULT | | X | |
| COMPONENT FAILURE | | X | |