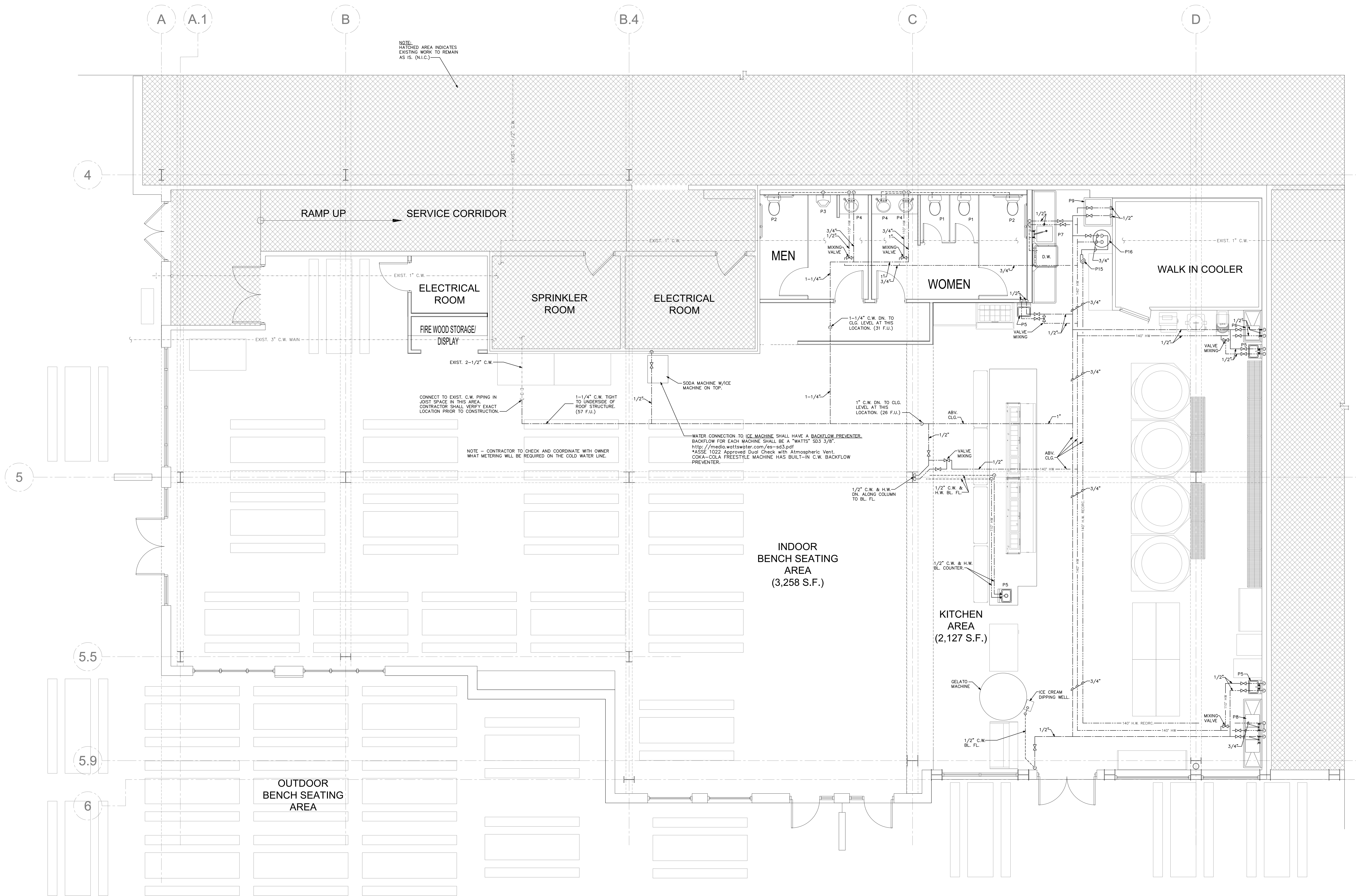
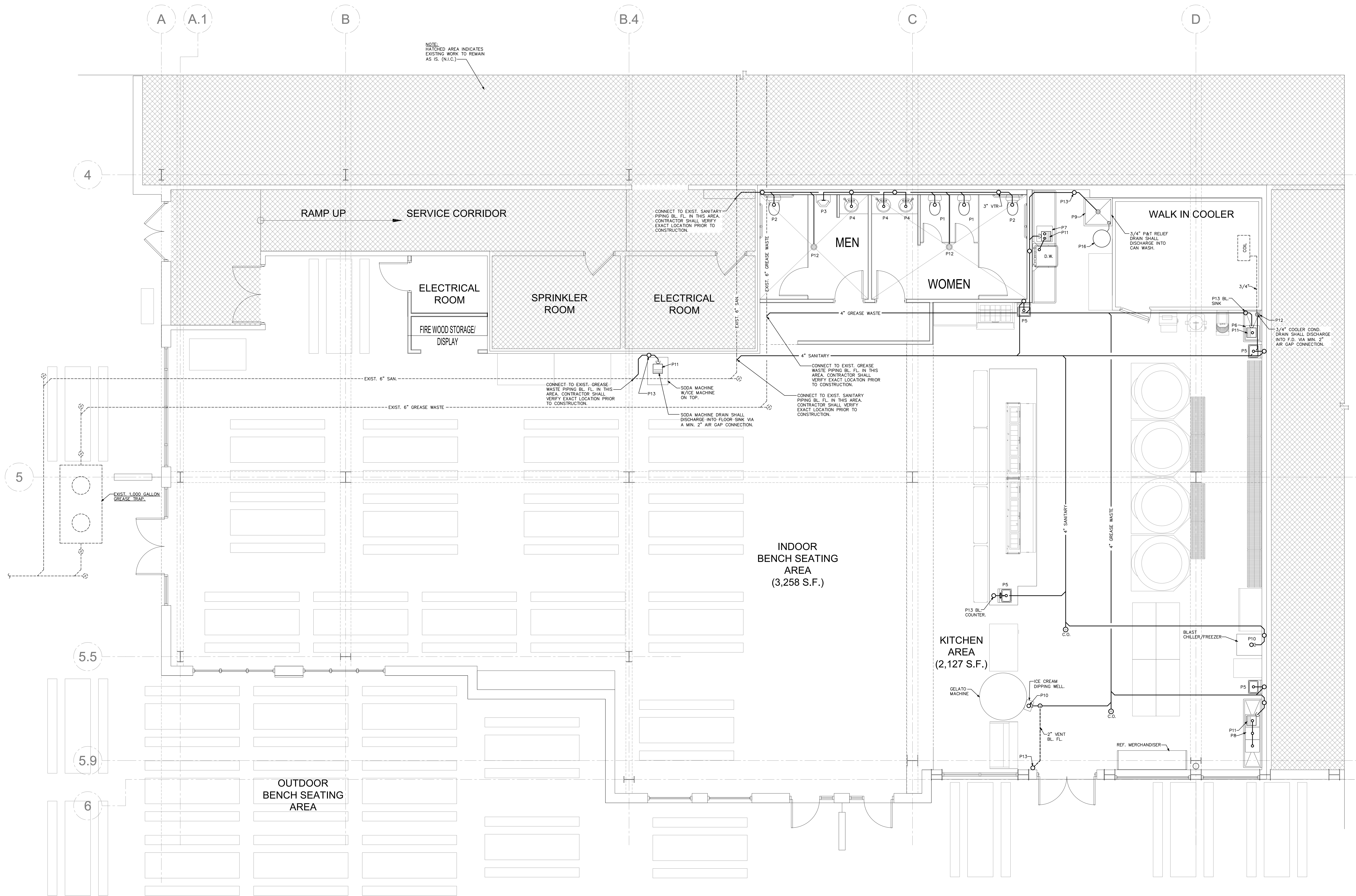




(WATER PIPING)
1 FLOOR PLAN - PLUMBING
SCALE: 1/4"=1'-0"

NOTE: THIS IS AN EXISTING FACILITY WHICH HAS EXISTING SANITARY AND WATER DISTRIBUTION SYSTEMS. ALTERATIONS TO EXISTING WORK BEING OF SUCH NATURE THAT ALL FACETS OF THE WORK ARE IMPOSSIBLE TO DETAIL AND SPECIFY. IT IS THEREFORE THE RESPONSIBILITY OF THE CONTRACTOR TO CAREFULLY EXAMINE THE EXISTING BUILDING AND FAMILIARIZE HIMSELF WITH THE CONDITIONS AND RELATE THESE CONDITIONS TO THE SCOPE OF THE PROPOSED NEW WORK. ALL BIDS ARE EXPECTED TO ENCOMPASS THE TOTAL WORK SCOPE NEEDED TO PLACE THE COMPLETED SYSTEM IN WORKING CONDITION.



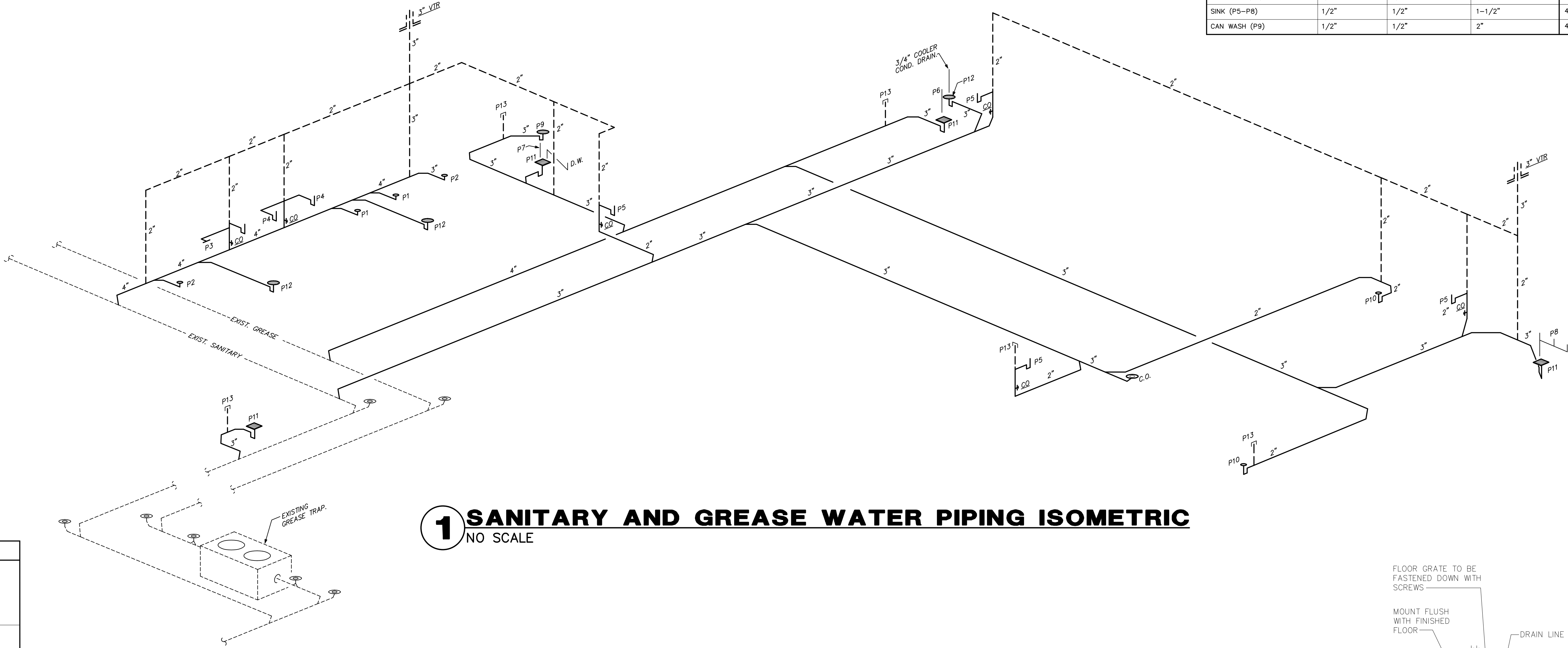
(SANITARY AND GREASE WASTE PIPING)
1 FLOOR PLAN - PLUMBING
SCALE: 1/4"=1'-0"

NOTE: THIS IS AN EXISTING FACILITY WHICH HAS EXISTING SANITARY AND WATER DISTRIBUTION SYSTEMS. ALTERATIONS TO EXISTING WORK BEING OF SUCH NATURE THAT ALL FACETS OF THE WORK ARE IMPOSSIBLE TO DETAIL AND SPECIFY. IT IS THEREFORE THE RESPONSIBILITY OF THE CONTRACTOR TO CAREFULLY EXAMINE THE EXISTING BUILDING AND FAMILIARIZE HIMSELF WITH THE CONDITIONS AND RELATE THESE CONDITIONS TO THE SCOPE OF THE PROPOSED NEW WORK. ALL BIDS ARE EXPECTED TO ENCOMPASS THE TOTAL WORK SCOPE NEEDED TO PLACE THE COMPLETED SYSTEM IN WORKING CONDITION.

PLUMBING FIXTURE SCHEDULE

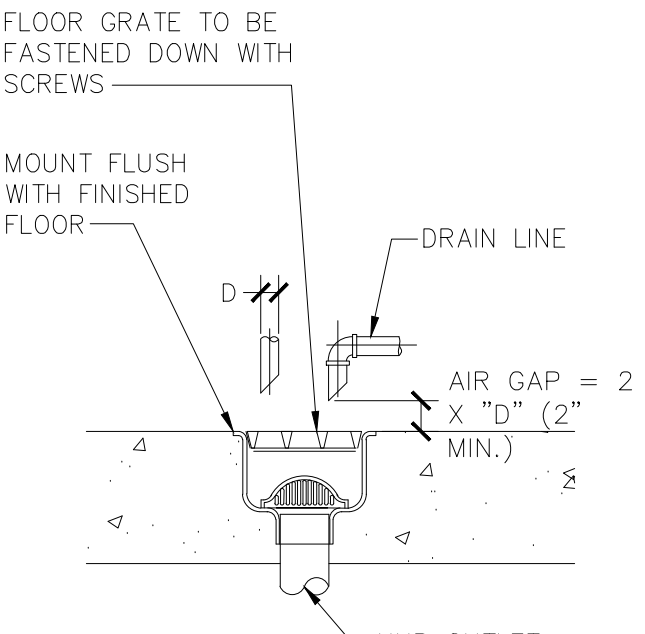
P-1 (FLOOR MOUNTED FLUSH TANK WATER CLOSET)	SHALL BE AN AMERICAN STANDARD MODEL 215CA104 CADET PRO 1.28 GPF RIGHT HEIGHT ELONGATED PRESSURE ASSISTED TOILET, VITREOUS CHINA, LOW-CONSUMPTION (1.28 GPF), CLOSE-COUPLED FLUSHOMETER TANK WITH RISE AND SHINE ELONGATED OPEN FRONT SEAT AND COVER AMERICAN STANDARD MODEL 5325.024 . • http://gso.gi/1rnb20
P-2 (HANDICAPPED FLOOR MOUNTED FLUSH TANK WATER CLOSET)	SHALL BE AN AMERICAN STANDARD MODEL 215AA104 CADET PRO 1.28 GPF RIGHT HEIGHT ELONGATED PRESSURE ASSISTED TOILET, VITREOUS CHINA, LOW-CONSUMPTION (1.28 GPF), CLOSE-COUPLED FLUSHOMETER TANK WITH RISE AND SHINE ELONGATED OPEN FRONT SEAT AND COVER AMERICAN STANDARD MODEL 5325.024 . • http://gso.gi/gh1Fov
P-3 (HANDICAPPED URINAL AND FLUSH VALVE)	SHALL BE AN AMERICAN STANDARD WASHBROOK MODEL 6501.511 3/4" TOP SPUD, 1.0 GPF, URINAL INCLUDES AMERICAN STANDARD MANUAL FLUSH VALVE MODEL 6045.102 FOR 3/4" TOP SPUD URINAL. • http://www.americanstandard-us.com/assets/documents/amstd/spec/SpecSheet_4875.pdf • http://www.americanstandard-us.com/assets/documents/amstd/spec/SpecSheet_4085.pdf
P-4 (HANDICAPPED COUNTER TOP LAVATORY)	SHALL BE AN AMERICAN STANDARD MODEL RONALYN MODEL 0490.011 VITREOUS CHINA SELF-RIMMING FAUCET SHALL BE A "CHICAGO" MODEL 3300-ABOP METERING FAUCET WITH 4" CENTERS AND BUILT-IN THERMOSTATIC MIXING VALVE TO DELIVER TEMPERED WATER AT A TEMPERATURE NOT TO EXCEED 105 DEGREES, UNIT IS ADA COMPLIANT, 0.5 GPM WITH AN ADJUSTABLE 2-1/2 SECOND OPERATING CYCLE TROUING UNDER 25 GALLONS PER CYCLE WATER PIPING AND P-TRAP SHALL BE COVERED WITH AN UNDER-SINK PROTECTIVE PIPE COVER KIT BY TRUEBRO (HTTP://WWW.TRUEBRO.COM) OR APPROVED EQUAL. • http://www.americanstandard-us.com/assets/documents/amstd/spec/SpecSheet_90.pdf • http://www.chicogofaucets.com/catalog/catalog.php?part_number=3400-CP
P-5 (STAINLESS STEEL HAND SINK W/FAUCET)	BY OWNER, COORDINATE FINAL SPECIFICATIONS WITH KITCHEN EQUIPMENT PLANS AND SCHEDULES BY OTHERS PRIOR TO BID.
P-6 (1 COMPARTMENT STAINLESS STEEL PREP SINK W/FAUCET)	BY OWNER, COORDINATE FINAL SPECIFICATIONS WITH KITCHEN EQUIPMENT PLANS AND SCHEDULES BY OTHERS PRIOR TO BID.
P-7 (STAINLESS STEEL PRE-RINSE SINK W/FAUCET)	BY OWNER, COORDINATE FINAL SPECIFICATIONS WITH KITCHEN EQUIPMENT PLANS AND SCHEDULES BY OTHERS PRIOR TO BID.
P-8 (3 COMPARTMENT STAINLESS STEEL SINK W/FAUCET)	BY OWNER, COORDINATE FINAL SPECIFICATIONS WITH KITCHEN EQUIPMENT PLANS AND SCHEDULES BY OTHERS PRIOR TO BID.
P-9 (CAN WASH W/FAUCET AND ACCESSORIES)	BY OWNER, COORDINATE FINAL SPECIFICATIONS WITH KITCHEN EQUIPMENT PLANS AND SCHEDULES BY OTHERS PRIOR TO BID.
P-10 (HUB DRAIN - INDIRECT WASTE FUNNEL)	SHALL BE A "ZURN" Z326, 2" PIPE CONNECTION, DURA-COATED CAST IRON BODY AND BOTTOM OUTLET, CONTRACTOR SHALL VERIFY FINAL HEIGHT OF FUNNEL WITH EQUIPMENT THAT IS UTILIZING FUNNEL DRAIN AND VERIFY PROPER CLEARANCE PRIOR TO CONSTRUCTION. COORDINATE WITH EQUIPMENT MANUFACTURER. • http://content.zurn.com/web_documents/pdfs/specsheets/z326.pdf
P-11 (FLOOR SINK W/SEDIMENT BUCKET)	SHALL BE A JOSAM 48340A-3-31 SERIES SQUARE CAST IRON 8" DEEP SUPER-FLO-SEPTOR FLOOR SINK WITH PORC-COATED INTERIOR, DOUBLE DRAINAGE FLANGE WITH WEEPHOLES, BOTTOM OUTLET, ALUMINUM INTERNAL COME STRAINER, AND CAST IRON, NON-TRAFFIC, PORC-COATED, ANTI-TILTING GRATE, WITH HALF GRATE AND ALUMINUM SEDIMENT BUCKET. • http://www.jsoam.com/catalog/405/pl=FS/48340A
P-12 (6" FLOOR DRAIN WITH TRAP SEAL)	SHALL BE A JOSAM 30003-A SERIES COATED CAST IRON FLOOR DRAIN, 3" PIPE CONNECTION, 6" DRAIN TOP, STRAINER TYPE 6A, TWO-PIECE BODY WITH DOUBLE DRAINAGE FLANGE, MECO INVERTIBLE NON-FUNCTURING FLASHING COLLAR, WEEPHOLES, BOTTOM OUTLET AND ADJUSTABLE STAIN NICKALOY ROUND SUPER-FLO STRAINER. • http://www.jsoam.com/po/coast-iron-adjustable-round-top-floor-drain/30000-A
P-13 (2" SLOPE VENT - AIR ADMITTANCE VALVE)	SHALL BE A 3" "SURE SEAL" MODEL 553000 PREASSEMBLED INLINE FLOOR DRAIN TRAP SEALER, 5 PIECES, COMMERCIAL GRADE ABS PLASTIC HOUSING AND KEEPER PIN, PROPRIETARY NEOPRENE RUBBER DIAPHRAGM, WITH 2 SOFT RUBBER SEALING GASKETS, FLOOR RATING ASSE-1072 AF-GW. • http://www.theuravent.com/Products/48301/48301/p101r-sheet_483000.pdf
P-14 (1/2" MIXING VALVE)	SHALL BE A "WATTS" MODEL LF1170-PEX-M2 SET AT 110°. Lead Free* cost copper silicon alloy body construction • http://media.wattswater.com/ES-LF1170_LF1170.pdf
P-15 (HOT WATER RECIRCULATING PUMP W/TIMER)	SHALL BE A "GRUNDFOS" MODEL #UP15-10SU7P1LC, GRANGER STOCK #4JA13, INLINE CIRCULATOR PUMP, OPEN LOOP SYSTEM, 1/50 HP, 1 PHASE, VOLTAGE 115, 3/4" INLET/OUTLET, INCLUDES POWER CORD, 24 HR. TIMER, COMFORT BYPASS VALVE, SUPPLY LINES. • http://www.grünger.com/product/GRUNDFOS-Hot-Water-Circulator-Pump-4JA13
P-16 (GAS WATER HEATER - DIRECT VENT - SEALED COMBUSTION)	SHALL BE A STATE "ULTRA FORCE" MODEL SUP100 1996(A) GAS FIRED COMMERCIAL WATER HEATER, 199,900 BTU INPUT TO PRODUCE 235 GALLONS PER HOUR OF HOT WATER AT 100 DEGREE RISE, INSULATED GLASSLINED 100 GALLON STORAGE TANK, WATER HEATER SHALL MEET OR EXCEED ALL APPLICABLE SECTIONS OF ASHRAE SECTIONS 90-90A AND IECCA REQUIREMENTS FOR ENERGY CONSERVATION. • http://www.statewaterheaters.com/HU/apac-comm-gas/SC55S0207.pdf

- NOTES:
- ALL PLUMBING FIXTURES SHALL BE AS SPECIFIED OR APPROVED EQUAL.
 - PROVIDE ANGLE STOPS ON ALL WATER SERVICE LINES TO FIXTURES FOR INDIVIDUAL SHUT-OFF.



1 SANITARY AND GREASE WATER PIPING ISOMETRIC
NO SCALE

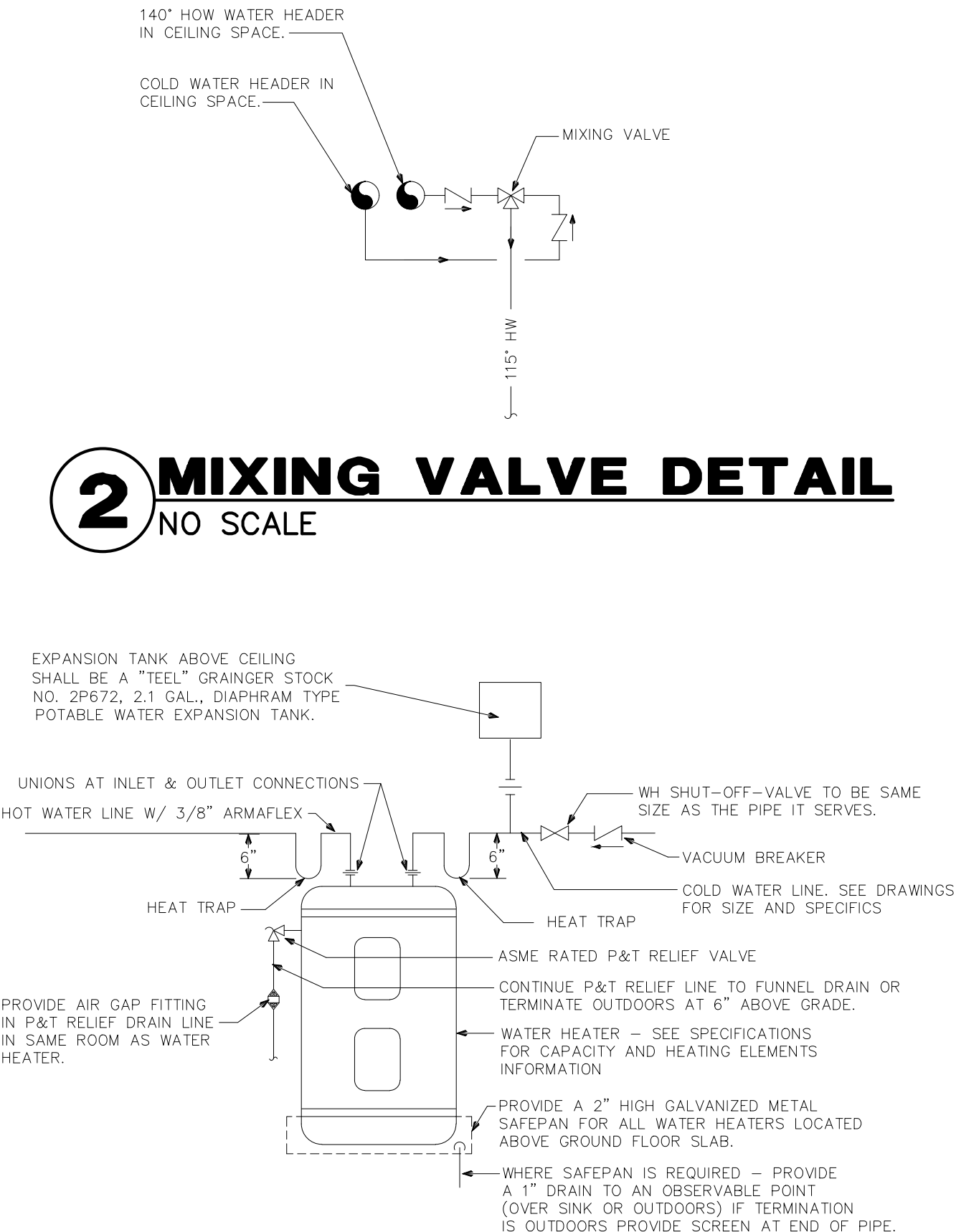
PLUMBING FIXTURE CONNECTION SIZES				
FIXTURE	C.W. CONN. SIZE	H.W. CONNECTION SIZE	SANITARY BRANCH SIZE	F.U. LOAD VALUES
WATER CLOSET (P1,P2)	1/2"	-	3"	5.0
URINAL (P3)	3/4"	-	2"	5.0
LAVATORY (P4)	1/2"	1/2"	1-1/4"	2.0
SINK (P5-P8)	1/2"	1/2"	1-1/2"	4.0
CAN WASH (P9)	1/2"	1/2"	2"	4.0



4 FLOOR SINK CONN. DETAIL
NO SCALE

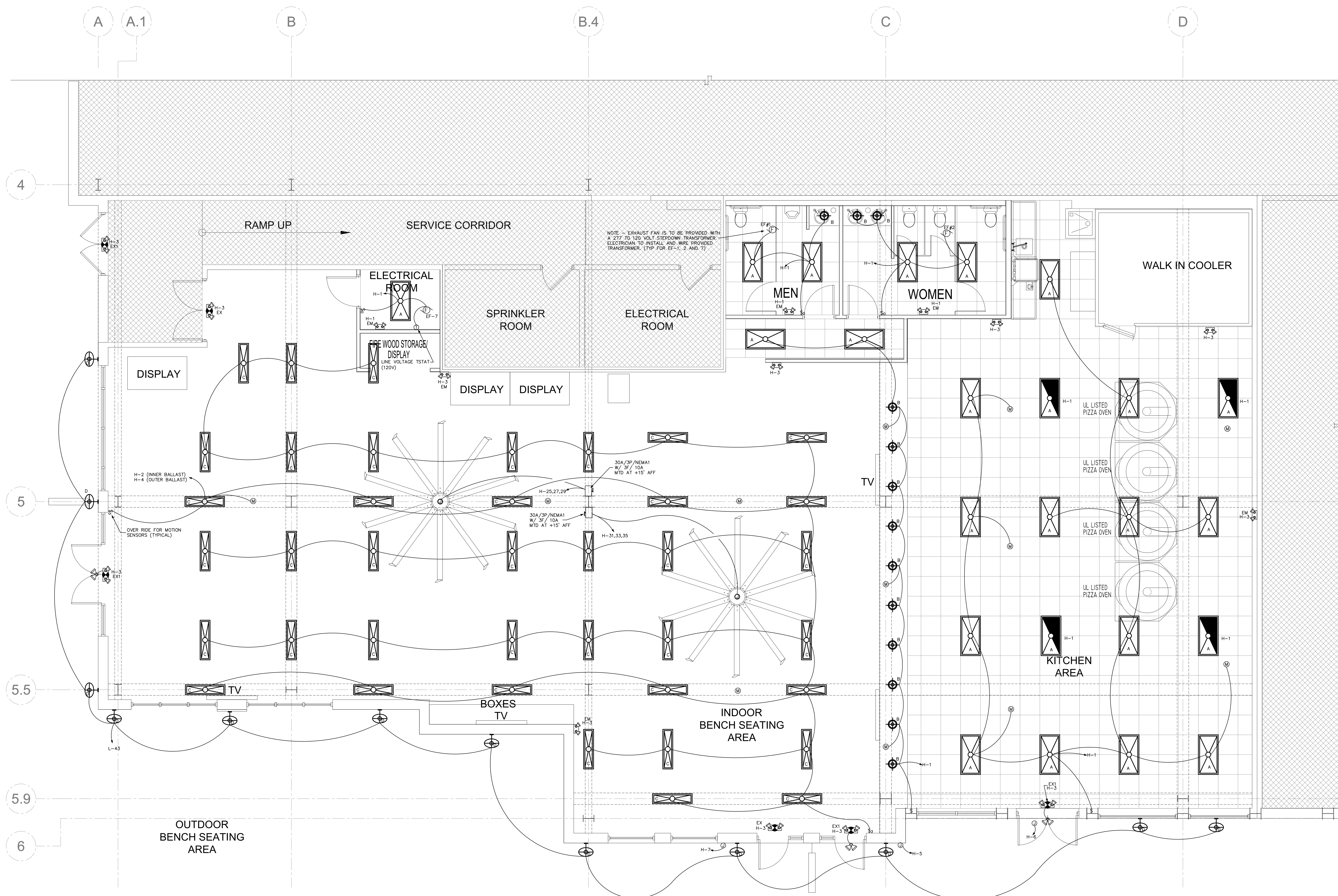
- GENERAL PLUMBING NOTES
- DRAWINGS ARE DIAGRAMMATIC AND SHALL NOT BE SCALED. REFER TO ARCHITECTURAL PLANS AND ELEVATIONS FOR EXACT LOCATION OF ALL PLUMBING FIXTURES, EQUIPMENT, ETC.. PLUMBING CONTRACTOR SHALL FURNISH AND INSTALL ALL ITEMS REQUIRED FOR A COMPLETE AND ACCEPTABLE WORKING INSTALLATION. 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.LUBROL.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)
 - SOIL, 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 FLENUM 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 58890.
 - 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. RECI.RC. PIPING, ONLY WHEN THERE IS A H.W. RECIRCULATING PIPING SYSTEM.

Storage Tank Water Heater Sizing Calculator							
Facility Name:		Alino's Pizzeria					
Address:		3333 BUFORD DRIVE, BUFORD, GA					
EQUIPMENT					GPH CALCULATED		
Enter the description, and number and size of compartments for each sink below		Description	Number of compartments	(inches)			Gallons Per Hour (GPH)
				Length	Width	Depth	
Largest Sink #1		3 Comp. Sink	3	24	18	16	68
Sink #2							0
Sink #3							0
Bar sink							0
Sinks are calculated at 75% capacity							
Total 88							
Enter type of prep sink and number of sink compartments for each sink below		Type of prep sink (vegetable, meat, seafood)	Number of compartments	Gallons Per Hour (GPH)			
Prep sink #1		Prep Sink	1	5			
Prep sink #2				0			
Prep sink#3				0			
Prep sinks are calculated at 5 gallons per compartment				Total		5	
Enter the quantity of equipment below		Quantity	Gallons Per Hour (GPH)				
Hand sinks		3	15				
Can wash		1	10				
Mop sink			0				
Hose reel			0				
Clothes washer			0				
Enter a description and estimated gallon per hour (GPH) usage for other equipment below		Description	Estimated gallons per hour (GPH) usage	Gallons Per Hour (GPH)			
Other Equipment		(3) Lavatory	6	6			
Other Equipment				0			
Other Equipment				0			
Other Equipment				0			
Hand sinks and mop sinks are calculated at 5 GPH each, can washes at 10 GPH each, hose reels are calculated at 5 GPH, clothes washers at 15 GPH, other equipment at the usage entered							
Total 31							
Enter the make, model and Final Rinse Usage in gallons per hour (GPH) for dishmachines		Make	Model	Final Rinse Usage (GPH) Found in "Dishmachine Specs" sheet below or on manufacturer's spec sheet	Gallons Per Hour (GPH)		
Dishmachine #1		Tempstar	Tempstar HH	50.3	35.21		
Dishmachine #2					0		
Enter the quantity of pre-rinse units		Quantity	Gallons Per Hour (GPH)				
Pre-rinse		1	45				
Dishmachines are calculated at 70% of the final rise usage specified by the manufacturer.							
Pre-rinse are calculated at 45 GPH							
Total 80.21							
Recovery Rate Needed (GPH):						184	
Water Heater Input (BTU or kW) Needed:							
Gas Water Heater			Electric Water Heater				
161,000 BTU at 80°F rise			36 kW at 80°F rise				
181,000 BTU at 90°F rise			40 kW at 90°F rise				
201,000 BTU at 100°F rise			45 kW at 100°F rise				



2 MIXING VALVE DETAIL
NO SCALE

3 WATER HEATER DETAIL
NO SCALE

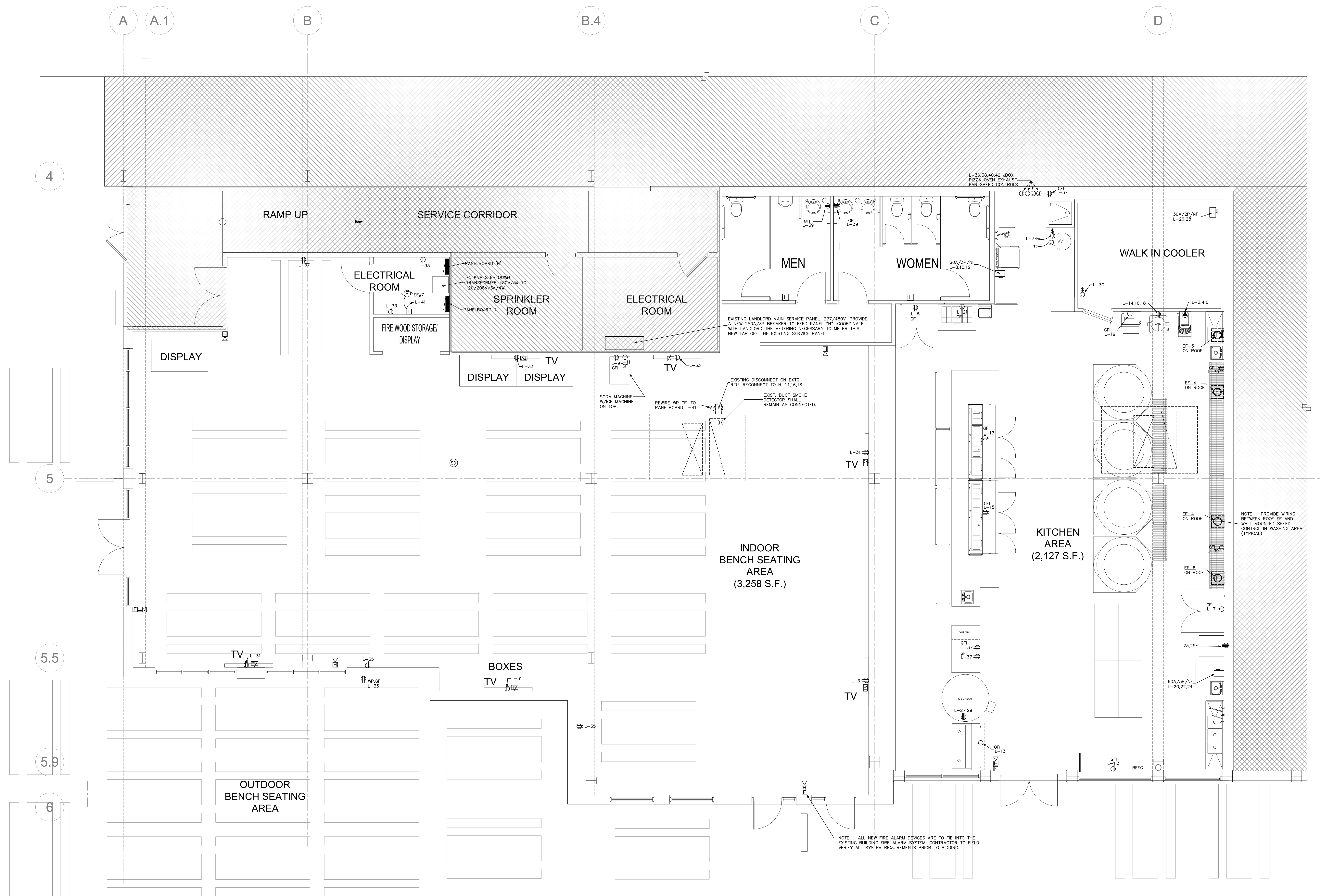


1 FLOOR PLAN - LIGHTING
SCALE: 1/4"=1'-0"

NOTES: ALL LIGHTS ARE SUPPLY BY
OWNER AND INSTALLED BY CONTRACTOR

NOTE THIS IS AN REHAB OF AN EXISTING BUILDING WHICH HAS AN EXISTING SERVICE AND DISTRIBUTION EQUIPMENT. ALTERATIONS TO EXISTING BUILDING BEING OF SUCH NATURE THAT ALL FACETS OF THE WORK ARE IMPOSSIBLE TO DETAIL AND SPECIFY. IT IS THEREFORE SPECIFICALLY THE RESPONSIBILITY OF THE CONTRACTOR TO CAREFULLY EXAMINE THE EXISTING BUILDING AND FAMILIARIZE HIMSELF WITH THE CONDITIONS AND RELATE THESE CONDITIONS TO THE SCOPE OF THE PROPOSED NEW WORK. ALL BIDS ARE EXPECTED TO ENCOMPASS THE TOTAL WORK SCOPE NEEDED TO PLACE THE COMPLETED ELECTRICAL SYSTEMS IN WORKING CONDITION TO THE EXTENT OF THE PLANS.

NOTES: CONTRACTOR TO VERIFY ALL CONNECTION BEFORE INSTALLATION



2 FLOOR PLAN - POWER
SCALE: 1/4"=1'-0"

NOTE: THIS IS A REHAB OF AN EXISTING BUILDING WHICH HAS AN EXISTING SERVICE AND DISTRIBUTION EQUIPMENT. ALTERATIONS TO EXISTING BUILDING BEING OF SUCH NATURE THAT ALL FACETS OF THE WORK ARE IMPOSSIBLE TO DETAIL AND SPECIFY. IT IS THEREFORE SPECIFICALLY THE RESPONSIBILITY OF THE CONTRACTOR TO CAREFULLY EXAMINE THE EXISTING BUILDING AND FAMILIARIZE HIMSELF WITH THE CONDITIONS AND RELATE THESE CONDITIONS TO THE SCOPE OF THE PROPOSED NEW WORK. ALL BIDS ARE EXPECTED TO ENCOMPASS THE TOTAL WORK SCOPE NEEDED TO PLACE THE COMPLETED ELECTRICAL SYSTEMS IN WORKING CONDITION TO THE EXTENT OF THE PLANS.



WISH LED

Wall mount • Wet location listed

PROGRESS LED

Specifications:

Description:

LED wall lantern with etched white linen glass. Includes dusk sky shield for full cut-off illumination or remove for a traditional lighting effect. 120V AC replaceable LED module, 1,211 lumens, 3000K color temperature and 90+ CRI.

Construction:

- Black (31) (powdercoat)
- Aluminum construction
- Etched White Linen glass cylindrical diffuser
- LED Module is replaceable (part # 9303541)
- Tickle-free dimming to 10% brightness with most ELV type dimmers (See Dimming Notes)
- Title 24 compliant
- Back plate covers a standard 4" hexagonal recessed outlet box
- 4 1/16" W, 6 1/4" H, 1" depth
- Mounting strap for outlet box included
- Six inches of wire supplied

Performance:

Number of Modules	1
Input Power	17W
Input Voltage	120V
Input Frequency	60Hz
Lumens/LPW	1211/71.2 (LM-79) per module
CCT	3000K
CRI	90
Life	60,000 (L70/TM-21)
EMI/RFI	FCC Title 47, Part 15, Class B
Min. Start Temp	30° C
Max. Operating Temp	30° C
Warranty	5 year warranty
Labels	cSAsus Wet location listed ENERGY STAR® qualified

Images:



Dimensions:

Width: 9"
Height: 12 1/2"
Depth: 10 1/2"
H/CTR: 3 1/8"
Glass: 5 5/16" dia.
Height: 7 3/8"

Catalog number:

Base	Finish	Color Temp	CRI
P6085	31 - Black	30K - 3000K	9 - 90 CRI

For more information visit our website: www.progresslighting.com

Progress Lighting • 701 Millennium Boulevard • Greenville, SC 29607

EXTERIOR LIGHT FIXTURE



COMcheck Software Version 4.0.2.5

Interior Lighting Compliance Certificate

Project Information

Energy Code: 90.1 (2007) Standard
Project Title: Alino's Pizzeria at Georgia Mall
Project Type: Alteration

Construction Site: 3333 Buford Drive, Buford, GA 30519
Owner/Agent: George Bulat, II Mullins, Inc., 500 South Main Street, Mooresville, NC 28115
Designer/Constructor:

Allowed Interior Lighting Power

A Area Category	B Floor Area (ft²)	C Allowed Watts / ft²	D Allowed Watts (B X C)
1-main dining (Common Space Types:Dining Area - Family Restaurant)	3850	2.10	8085
2-kitchen (Common Space Types:Food Preparation)	2230	1.19	2676
Total Allowed Watts = 10761			

Proposed Interior Lighting Power

A Fixture ID : Description / Lamp / Wattage Per Lamp / Ballast	B Lamps/ Fixture	C # of Fixtures	D Fixture Watt.	E (C X D)
main dining (Common Space Types:Dining Area - Family Restaurant 3850 sq.ft.)				
Linear Fluorescent 1: TYPE C: high bay fluorescent: 48" T8 32W: Electronic	4	38	128	4864
Linear Fluorescent 2: TYPE A: 2x4 fluorescent troffer: 48" T8 32W: Electronic	4	7	128	896
Compact Fluorescent 1: TYPE B: recessed compact floor: Twin Tube 13W: Electronic	2	10	26	260
kitchen (Common Space Types:Food Preparation 2230 sq.ft.)				
Linear Fluorescent 3: TYPE A: 2x4 fluorescent troffer: 48" T8 32W: Electronic	4	17	128	2176
Total Proposed Watts = 8196				

Interior Lighting PASSES

Interior Lighting Compliance Statement

Compliance Statement: The proposed interior lighting alteration project represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application. The proposed interior lighting systems have been designed to meet the 90.1 (2007) Standard requirements in COMcheck Version 4.0.2.5 and to comply with the mandatory requirements listed in the Inspection Checklist.

Todd W. Carey, P.E.
Name - Title
Signature
Date: 05/14/2016

Project Title: Alino's Pizzeria at Georgia Mall
Data filename: P:\ACAD2014\Drawings\16033.cck
Report date: 05/14/16
Page 1 of 5

LIGHTING FIXTURE SCHEDULE

LABEL	TYPE OF FIXTURE	FINISH	LENS TYPE	VOLTAGE	LAMP	MANUFACTURER & MODEL NO.	REMARKS
A	SURFACE 2'X4' TROFFER	WHITE	PRISMATIC	277	(4) 32W T8	LITHONIA FGB24 4 32 T1X20-MVOLT	SEE SCHEDULE ON DRAWINGS
B	RECESSED FLUORESCENT	WHITE	FLAT FRESNEL	277	(2) 13W DTT	LITHONIA LGF-2/13DTT-6RW-FFL	SEE SCHEDULE ON DRAWINGS
C	2X4 HIGH BAY FLUORESCENT	WHITE		277	(4)) 32WT8	TO BE PROVIDED BY OWNER	FIXTURE HAS TWO, 2-TUBE MTAP BALLASTS.
D	EXTERIOR ACCENT LIGHT	DK. BRONZE	FROSTED ACRYLIC	120	LED 1211LUMENS 17W	PROGRESS P6085-313-K9	PROVIDE OPTIONAL DARK SKY CUT OFF
EM	EMERGENCY EGRESS	WHITE		277	INCLUDED	LITHONIA ELM2	W/ BATTERY BACKUP
EX1	EMERG EGRESS / EXIT SIGN	WHITE	RED	277	INCLUDED	LITHONIA LHQM-MVOLT-HQ	W/ BATTERY BACKUP & OPTIONAL TWIN EXTERIOR REMOTE HEADS
EX	EXIT SIGN	WHITE	RED	277	INCLUDED	LITHONIA LHQM-MVOLT	W/ BATTERY BACKUP

NOTE - ALL EXTERIOR FIXTURES ARE TO HAVE FULL CUTOFF SHIELDING.

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 ENDSUE 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 - 6952 VS. 7124
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 INTERNATIONAL ENERGY CODE 2012, CHAPTER 5.

SIGNED:

NAME: TODD W. CAREY, P.E.

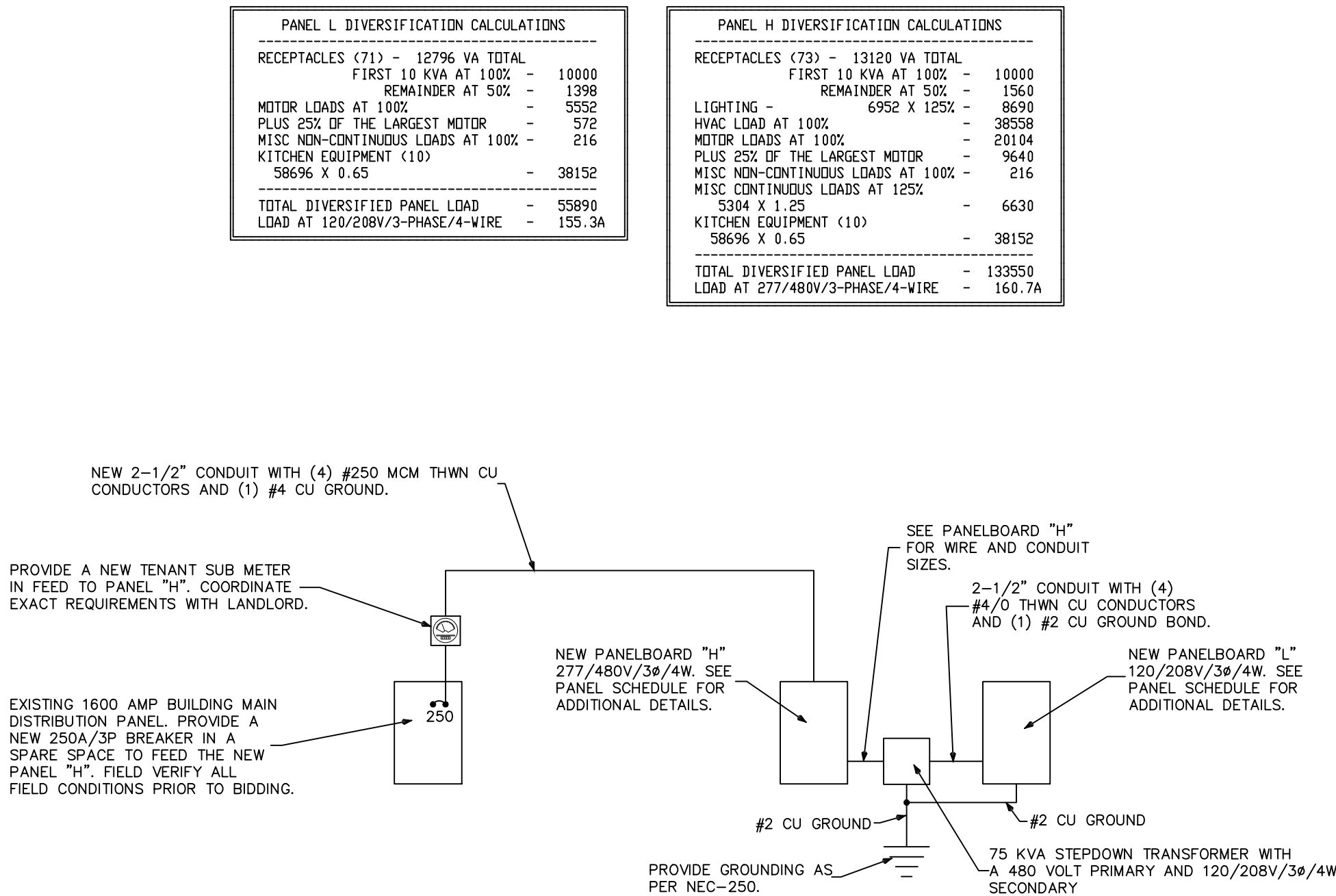
TITLE: NORTH CAROLINA PROFESSIONAL ENGINEER #9079

ELECTRICAL SYMBOLS LEGEND

SYMBOLS	DESCRIPTION	SYMBOLS	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
	COUNTEROUTLET RECEPTACLE +42"		F-FAN, M-MOTOR, P-PUMP
	SINGLE POLE SWITCH, MTD. +42"		SPECIAL OUTLET - AS REQUIRED
	THREE-WAY SWITCH, MTD. +42"		CKT. HOMERUN (B INDICATES PANEL)
	MANUAL STARTER SWITCH		EXIT SIGN, ONE SIDED, OR TWO SIDED
	DIMMER SWITCH, MTD. +42"		EMERGENCY LIGHTING
	SWITCH W/ ILLUM WHEN ON MTD. +42"		RECESSED MOUNTED LIGHTING FIXTURE B DESIGNATES FIXTURE TYPE
	THREE-WAY SWITCH W/ OCCU SENSOR MTD. +42"		OVERHEAD OCCUPANCY SENSOR
	SWITCH W/ OCCU SENSOR MTD. +42"		HIGH-BAY MID LIGHTING FIXTURE B DESIGNATES FIXTURE TYPE
	JUNCTION BOX, FLUSH IF POSSIBLE		FLUORESCENT LIGHTING NIGHT LIGHT B DESIGNATES FIXTURE TYPE
	TELEPHONE / DATA OUTLET +18"		LED LIGHTING FIXTURE B DESIGNATES FIXTURE TYPE
	DED. COMPUTER TERM. OUTLET +18"		ISOLATED GROUND
	DISCONNECT SWITCH W/ STARTER		
	DISCONNECT SWITCH		
	FLR. MTD. FLUSH DUPLEX RECEPTACLE		WP WEATHER-PROOF
	FLR. MTD. FLUSH QUAD. RECEPTACLE		BC BELOW COUNTER
	FLR. MTD. FLUSH PHONE/DATA OUTLET		TC TIME CLOCK - 24 HOUR
	FLR. MTD. FLUSH COMPUTER OUTLET		GFI GROUND FAULT INTERRUPTER
	AREA SMOKE DETECTOR		AFF ABOVE FINISHED FLOOR
	HEAT DETECTOR		EWC ELECTRIC WATER COOLER
	DUCT SMOKE DETECTOR		ASW ABOVE SHOW WINDOW
	FIRE ALARM MAN. PULL STATION +42"		BSW BELOW SHOW WINDOW
	HORN WITH STROBO LIGHT, MTD. +42"		FACP FIRE ALARM CONTROL PANEL
	FIRE ALARM DEVICE, IS CANDELLA RATING STROBE LIGHT ONLY, MTD. +42"		FAAP FIRE ALARM ANNUNCIATOR PANEL
	FIRE ALARM DEVICE, IS CANDELLA RATING		

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 WILL BE ACCEPTABLE FOR EQUAL RATED AND LISTED UNITS.
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.
- 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 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" TRADE SIZE WHERE PVC CONDUIT IS INSTALLED UNDERGROUND, ELBOWS TURNING UP AND CONDUIT EMERGING ABOVE GRADE SHALL BE RSC. THE TOPS OF CONDUITS SHALL NOT BE LESS THAN 24" BELOW FINISHED GRADE. PVC CONDUIT INSTALLED ABOVE GRADE OR DIRECT-BURIED 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 SPICES 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 SPICES, 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 SPICES USED ON CONDUCTORS #10 AWG AND SMALLER, SHALL BE THE SELF-INSULATED TYPE; OTHER SPICES SHALL BE INSULATED USING 3M #33+ OR 888 PLASTIC TAPE. SPICES IN WET LOCATIONS SHALL BE INSULATED WITH ELECTRICAL TAPE AND ENCAPSULATED WITH SCOTCHCAST OR EQUAL POTING 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 SPICES 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 COMPLETE 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.



1 ELECTRICAL SERVICE RISER

NO SCALE