

FLOOR PLAN

SCALE: 1/4" = 1'

2007 FLORIDA BUILDING CODE - COMPLIANCE SUMMARY

BASIC WIND SPEED:	110 MPH	TYPE OF CONSTRUCTION	HURRICANE UPLIFT CONNECTORS
WIND IMPORTANCE FACTOR (1):	1 = 1.00	Roof: Hip Roof Construction, Wood Trusses @ 24" O	Truss to CMU Wall: "SIMPSON" META20 @ Ea. Truss End
BUILDING CATAGORY:	CATAGORY II	Walls: 8" CMU, Walls - Reinf. per Drawings	W/ T85 Galvanized Saddle
WIND EXPOSURE:	"B"	Floor: 4" Thk. Concrete Slab w/ 6x6 W2.1/2.1 WWM.	Truss to Steel Em: "SIMPSON" LTT20B @ Ea. Truss End
INTERNAL PRESSURE COEFFICIENT:	+/- 0.18	Foundation: Continuous Footer/Stem Wall	W/ 1/2" Anchor Bolt
MUFRS PER TABLE 1609.2A (FBC 2007)	ROOF: - 23.1 PSF	ROOF DECKING	Girder to CMU Wall: "SIMPSON" HHETA24 @ Ea. Truss End
DESIGN WIND PRESSURES:	WALLS: + 26.6 PSF	Material: 5/8" CDX Plywood	W/ Galvanized Moisture Barrier
COMPONENTS & CLADDING PER TABLES 1609.2A, 1609.2B & 1609.2C (FBC 2007)	EAVES: + 32.3 PSF	Sheet Size: 48"x96" Sheets Perpendicular to Roof Framing	
DESIGN WIND PRESSURES:	ROOF: + 19.3 / - 25.5 PSF	Fasteners: #8 Common Nails @ 6" O.C. Edge, 12" O.C. Field	
		SHEARWALLS	
		Material: 8" CMU, W/5 Vert. Reinforcing @ 32" o.c.	
			FOOTINGS AND FOUNDATIONS
			Footings: 12"x24" W/3 #5 Rebar - continuous
			Stemwall: 8" CMU, with #5 Vert. Reinforcing @ 32" o.c.
			Column Piers: 60" X16" W/6 #5 Bars ea. way, Bot.

ALL WIND LOADS ARE IN ACCORDANCE WITH SECTION 1609, FLORIDA BUILDING CODE, 2007 EDITION.

CRAIG SALLEY AND ASSOCIATES
ARCHITECTS • PLANNERS • INTERIOR DESIGNERS
3811 NEWBERRY ROAD • GAINESVILLE, FLORIDA • LIC. NO. A0002779 • 352-372-8424



S & S FOOD STORE NO. 20
BIRLEY & PINEMOUNT ROAD
LAKE CITY, FLORIDA

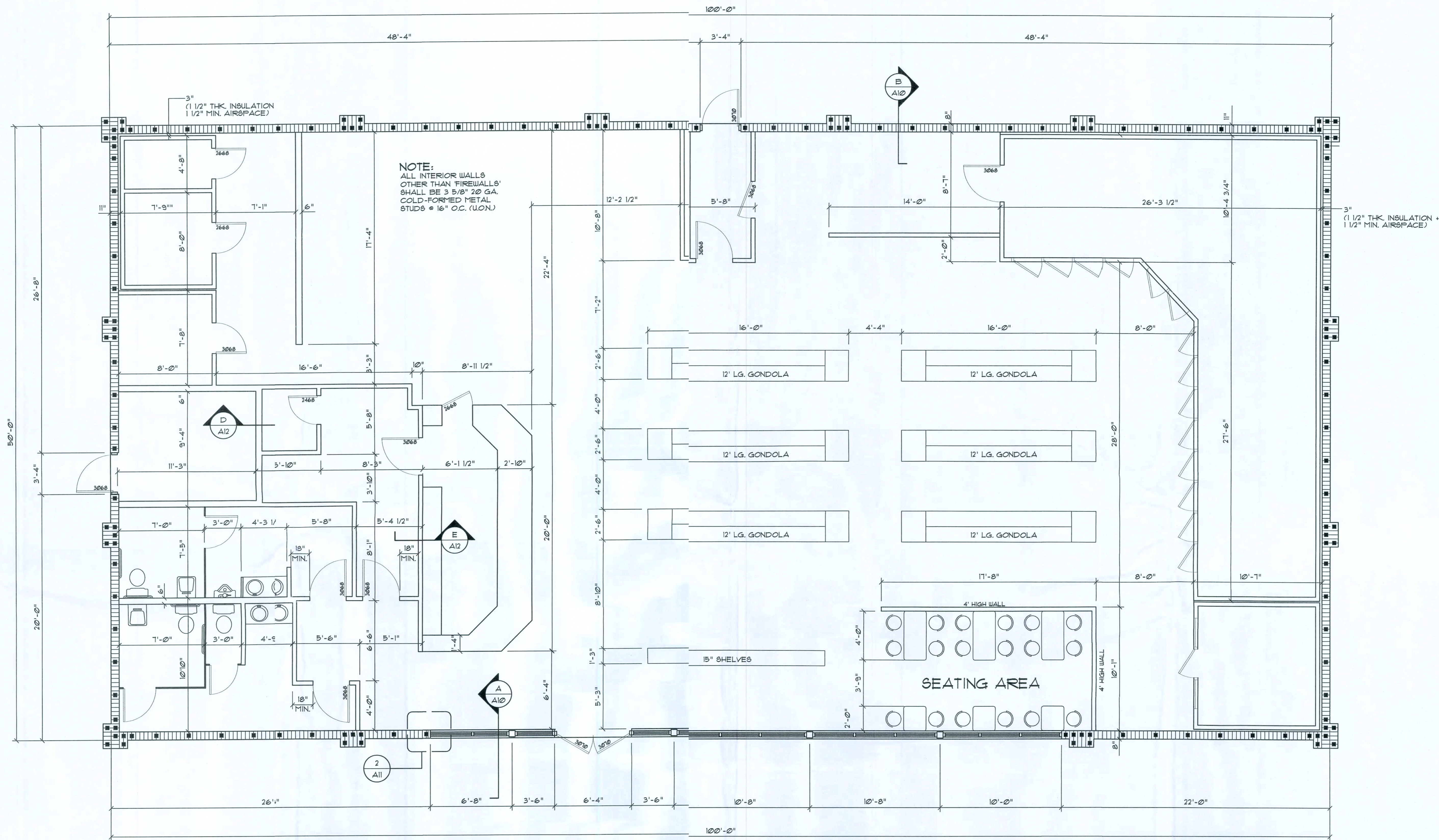
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3/10/10

CRAIG SALLEY, R.A.
FL. REG. NO. 4475

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1/12/10
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A-1

OF
18
SHEETS



DIMENSION PLAN

SCALE: 1/4" = 1'

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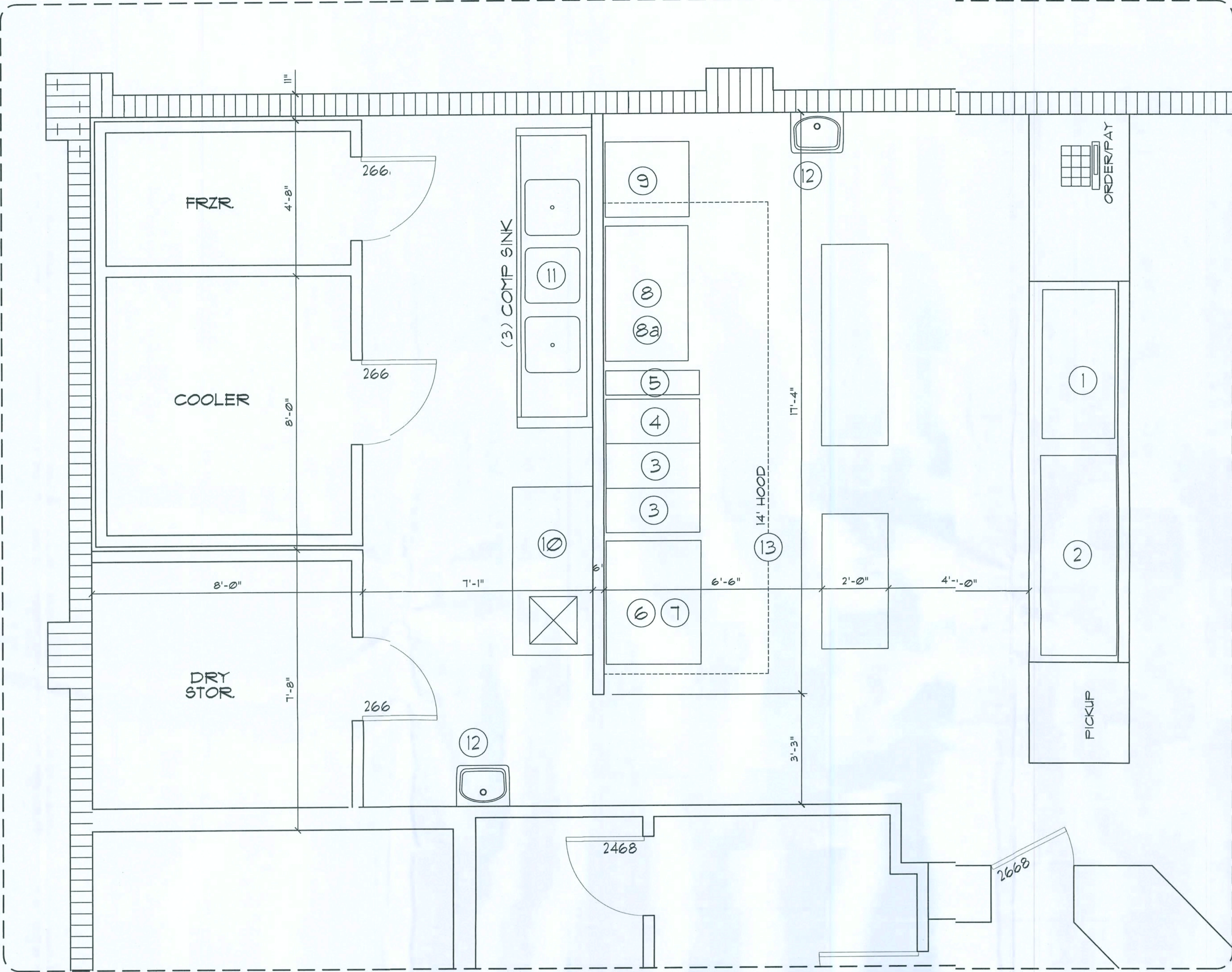
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SHEETS



KITCHEN EQUIPMENT .AYOUT

SCALE: 1/2" = 1'

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EQUIPMENT SCHEDULE		
NO.	DESCRIPTION	ELEC./GAS REQUIREMENTS
1	5' DROP-IN HOT WELL W/WARMING DRAWER	120V/60/1, 20A, NEMA L5-30P, STD.
2	8' COLD FOOD DROP-IN	115V/60/1, 17.5A, NEMA 5-30P
3	14" GAS DEEP FRYER	120V/60/1, 8A, 111,000 BTU
4	FRYER FILTER MATE	-
5	2 BURNER COOK TOP	(2) 33,000 BTU BURNERS
6	GAS COMBI-OVEN	120V/60/1, 5.7A, NEMA 5-15F, 91,000 BTU
7	CONVECTION OVEN	120V/60/1, 12.5A, NEMA 5-15F, 50,000 BTU
8	GRIDDLE	60,000 BTU
8a	CHARBROILER	80,000 BTU
9	REFRIGERATED SANDWICH PREP	115V/60/1,
10	5' SS PREP TABLE	-
11	3-COMPARTMENT SINK	-
12	HAND SINK	-
13	14' EXHAUST HOOD	SEE - CAPTIVE AIRE SPECIFICATIONS

FIRE/VENTILATION SYSTEM

THIS BUILDING SHALL BE EQUIPPED WITH ALL THE REQUIREMENTS OF NFPA 96: STANDARD FOR VENTILATION CONTROL AND FIRE PROTECTION OF COMMERCIAL COOKING OPERATIONS.

1.1 SCOPE. 1.11 THIS STANDARD SHALL PROVIDE THE MINIMUM FIRE SAFETY REQUIREMENTS (PREVENTATIVE AND OPERATIVE) RELATED TO THE DESIGN, INSTALLATION, OPERATION, INSPECTION AND MAINTENANCE OF ALL PUBLIC AND PRIVATE COOKING OPERATIONS. 1.12 THIS STANDARD SHALL APPLY TO RESIDENTIAL COOKING EQUIPMENT USED FOR COMMERCIAL COOKING OPERATIONS. 1.13 THIS STANDARD SHALL NOT APPLY TO COOKING EQUIPMENT LOCATED IN A SINGLE DWELLING UNIT. 1.1.4* THIS STANDARD SHALL NOT APPLY TO FACILITIES WHERE ALL OF THE FOLLOWING ARE MET: (1) ONLY RESIDENTIAL EQUIPMENT IS BEING USED, (2) FIRE EXTINGUISHERS ARE LOCATED IN ALL KITCHEN AREAS IN ACCORDANCE WITH NFPA 10, STANDARD FOR PORTABLE FIRE EXTINGUISHERS, (3) FACILITY IS NOT AN ASSEMBLY OCCUPANCY, (4) THE AUTHORITY HAVING JURISDICTION HAS APPROVED THE INSTALLATION. ALL THESE REQUIREMENTS INCLUDE, BUT ARE NOT LIMITED TO, ALL MANNER OF COOKING EQUIPMENT, EXHAUST HOODS, GREASE REMOVAL DEVICES, EXHAUST DUCTWORK, EXHAUST FANS, DAMPERS, FIRE-EXTINGUISHING EQUIPMENT, AND ALL OTHER AUXILIARY OR ANCILLARY COMPONENTS OR SYSTEMS THAT ARE INVOLVED IN THE CAPTURE, CONTAINMENT, AND CONTROL OF GREASE-LADEN COOKING EFFLUENT. A.11.4 THIS JUDGMENT SHOULD TAKE INTO ACCOUNT THE TYPE OF COOKING BEING PERFORMED, ITEMS BEING COOKED, AND THE FREQUENCY OF COOKING OPERATIONS. EXAMPLES OF OPERATIONS THAT MIGHT NOT REQUIRE COMPLIANCE WITH THIS STANDARD INCLUDE THE FOLLOWING: (1) DAY CARE CENTERS WARMING BOTTLES AND LUNCHES (2) THERAPY COOKING FACILITIES IN HEALTH CARE (3) CHURCHES AND MEETING OPERATIONS THAT ARE NOT COOKING MEALS THAT PRODUCE GREASE-LADEN VAPORS (4) EMPLOYEE BREAK ROOMS WHERE FOOD IS WARMED

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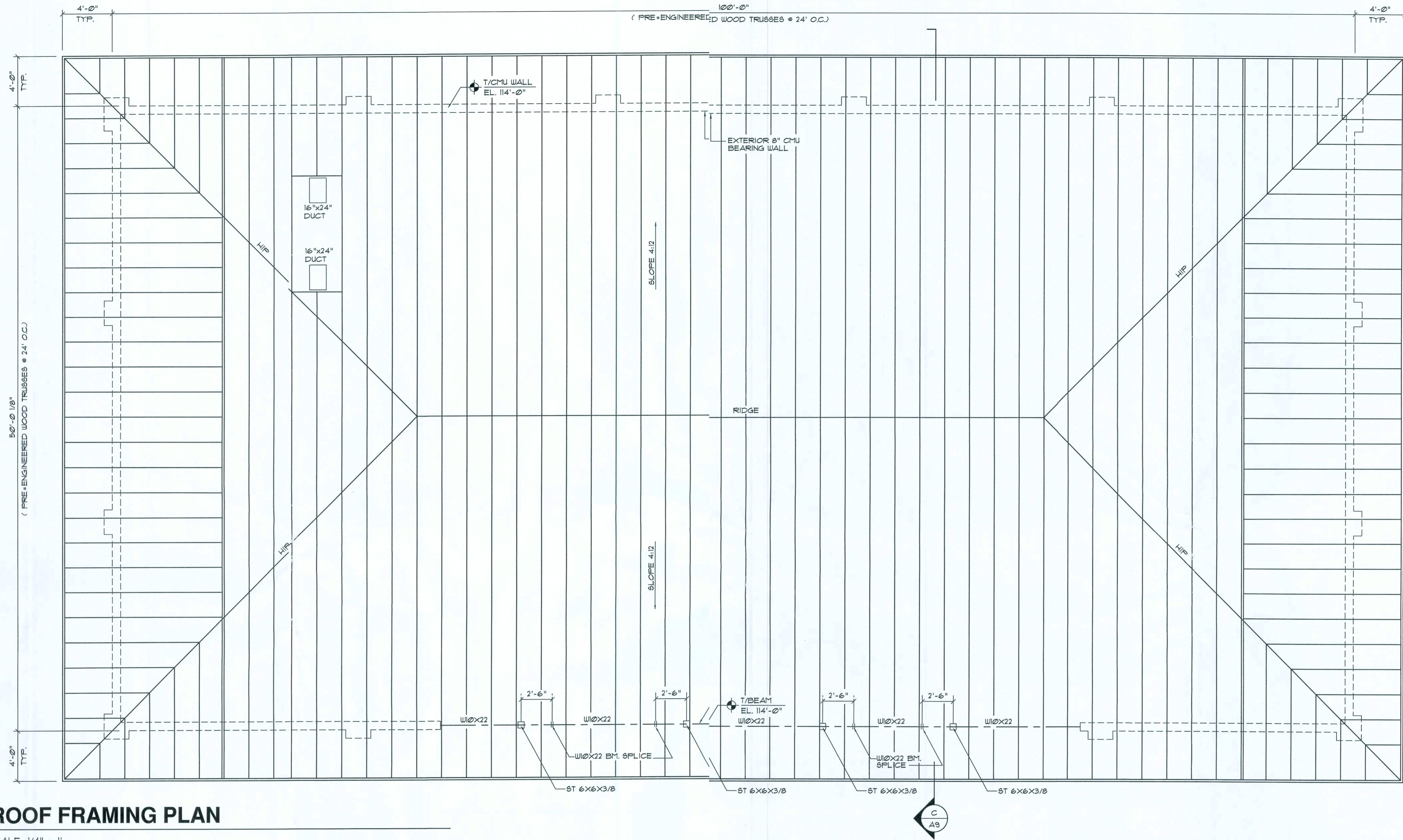
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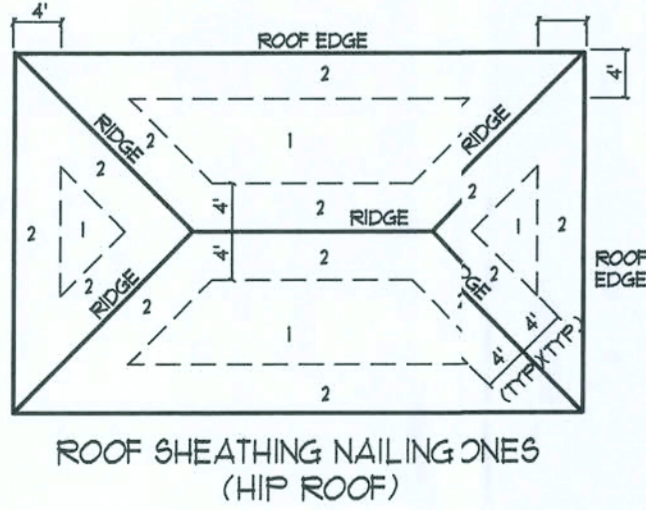
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ROOF FRAMING PLAN

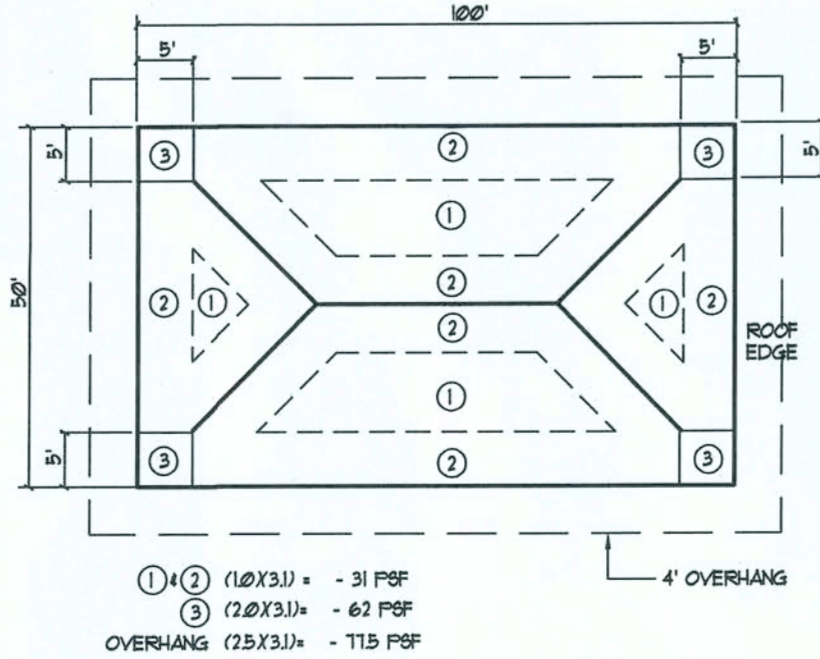
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ROOF SHEATHING FASTENINGS			
NAILING ZONE	SHEATHING TYPE	FASTENER	SPACING
1	5/8" CDX	8d COMMON OR 8d HOT DIPPED GALVANIZED BOX NAILS	6 in. o.c. EDGE 12 in. o.c. FIELD
2			4 in. o.c. EDGE 8 in. o.c. FIELD



Roof Nail Pattern DETAIL

SCALE: NONE



Wind Uplift DIAGRAM

SCALE: NONE

SHOP DRAWING COORDINATION: THE TRUSS ANCHOR STRAPS AS INDICATED IN THE CONSTRUCTION DOCUMENTS ARE SUGGESTED STRAPS AND THAT THE TRUSS ENGINEERED SHOP DRAWING LOADS TAKE PRECEDENCE OVER THAT INDICATED IN THE CONSTRUCTION DOCUMENTS.

THE UPLIFT LOADS INDICATED FOR EACH TRUSS IN THE ENGINEERED TRUSS SHOP DRAWINGS MAY BE MATCHED TO STANDARD PRODUCT UPLIFT RATINGS FOR COMPATIBLE UPLIFT CONNECTORS, AND THAT THE PRODUCTS THAT PROVIDE EQUAL OR GREATER UPLIFT RESISTANCE FOR THE LISTED LOADS MAY BE USED IN LIEU OF THOSE INDICATED IN THE CONSTRUCTION DOCUMENTS OR AS APPROVED BY THE BUILDING OFFICIAL.

THE CONTRACTOR SHALL COORDINATE THE TRUSS TO TRUSS ANCHOR REQUIREMENTS WITH THE TRUSS ENGINEERING SHOP DRAWINGS. SOME OF THE TRUSS TO TRUSS CONNECTIONS WILL REQUIRE ANCHOR STRAPS IN ADDITION TO TYPICAL NAILING. ANCHOR DEVICES SHALL BE REQUIRED FOR ALL JOINTS WITH AN UPLIFT OR GRAVITY LOAD OF 100 LBS OR GREATER.

WOOD STRUCTURAL NOTES

- TEMPORARY BRACING OF THE STRUCTURE DURING ERECTION, REQUIRED FOR SAFE AND STABLE CONSTRUCTION, SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR SO ENGAGED. TEMPORARY AND PERMANENT BRACING OF ROOF TRUSSES SHALL BE AS PER THE STANDARD GUIDELINES OF THE "TRUSS PLATE INSTITUTE".
- ALL TRUSSES SHALL BE DESIGNED BY A LICENSED PROFESSIONAL FLORIDA ENGINEER & SHALL BE SIGNED AND SEALED BY THE SAME. DESIGN SHALL INCLUDE ALL PLACEMENT PLANS, TRUSS DETAILS, TRUSS TO TRUSS CONNECTIONS & THE STANDARD SPECIFICATIONS AND RECOMMENDATIONS OF INSTALLATION OF THE "TRUSS PLATE INSTITUTE".
- THE DESIGN WIND SPEED FOR THIS PROJECT IS 110 MPH PER THE 2001 FLORIDA BUILDING CODE SECTION 1609 AND LOCAL JURISDICTION REQUIREMENTS.
- SHEATH ROOF WITH 5/8" CDX PLYWOOD W/ LONG EDGE PERPENDICULAR TO THE ROOF TRUSSES, SECURE TO FRAMING WITH 8d NAILS SPACED PER THE NAILING SCHEDULE.

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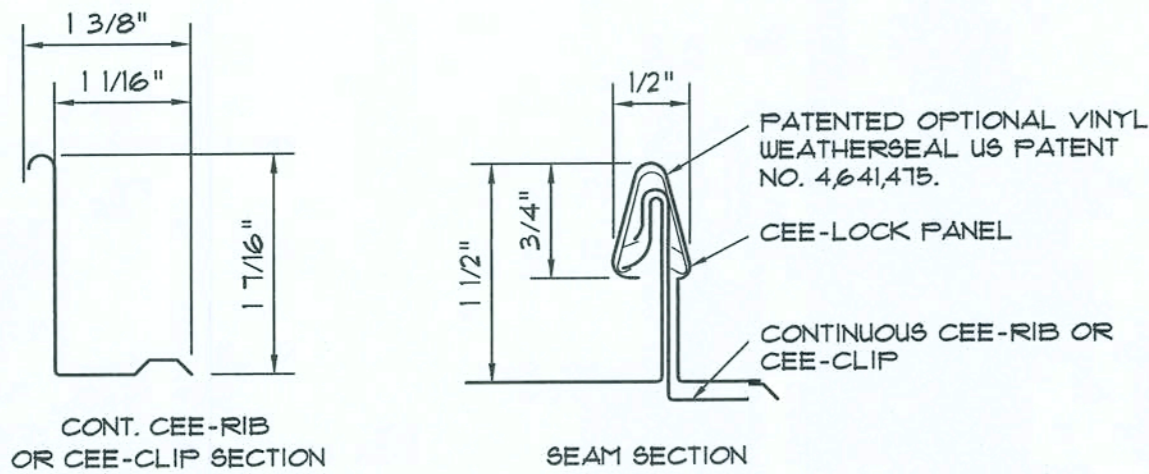
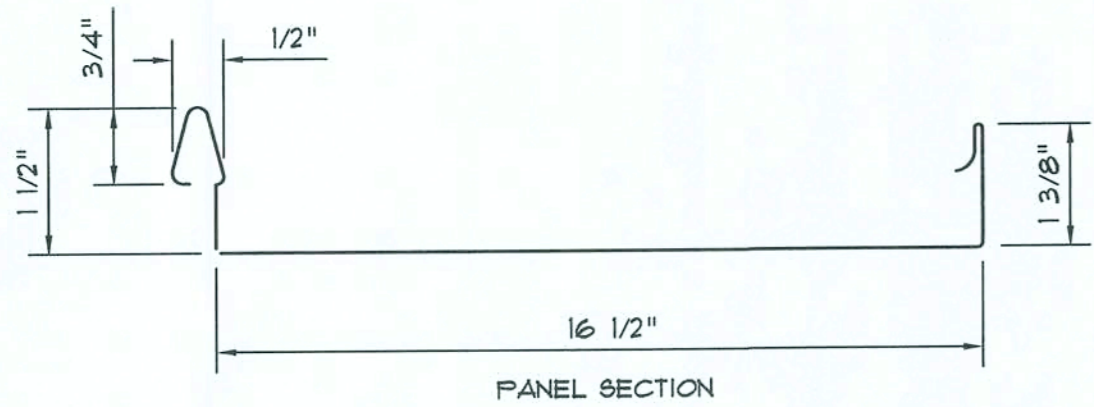
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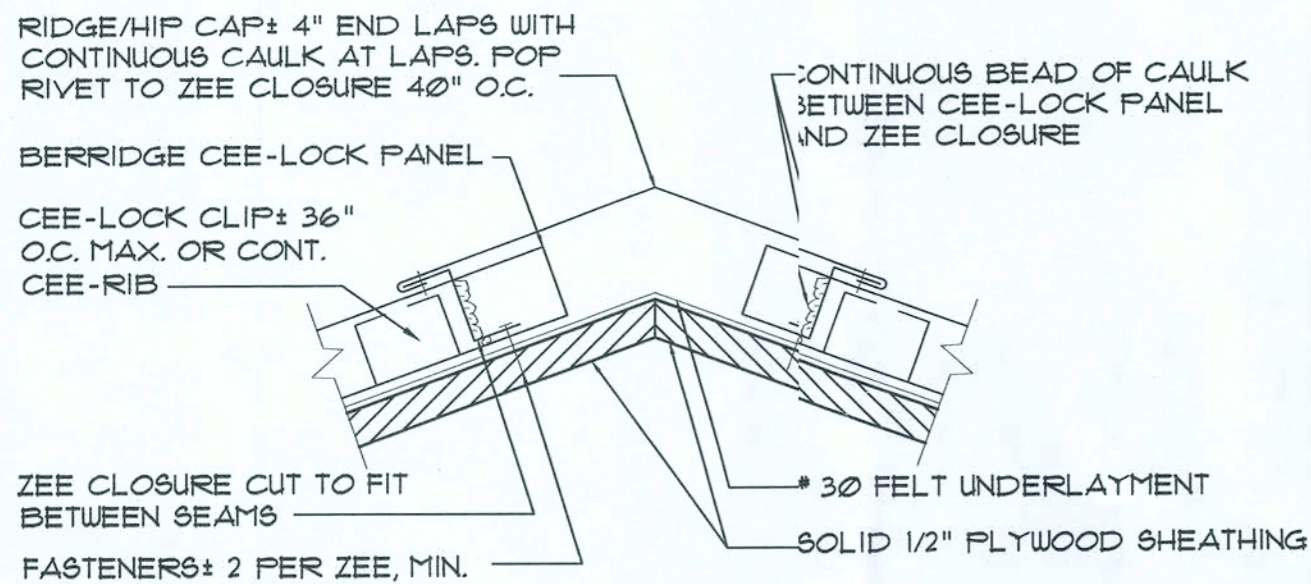
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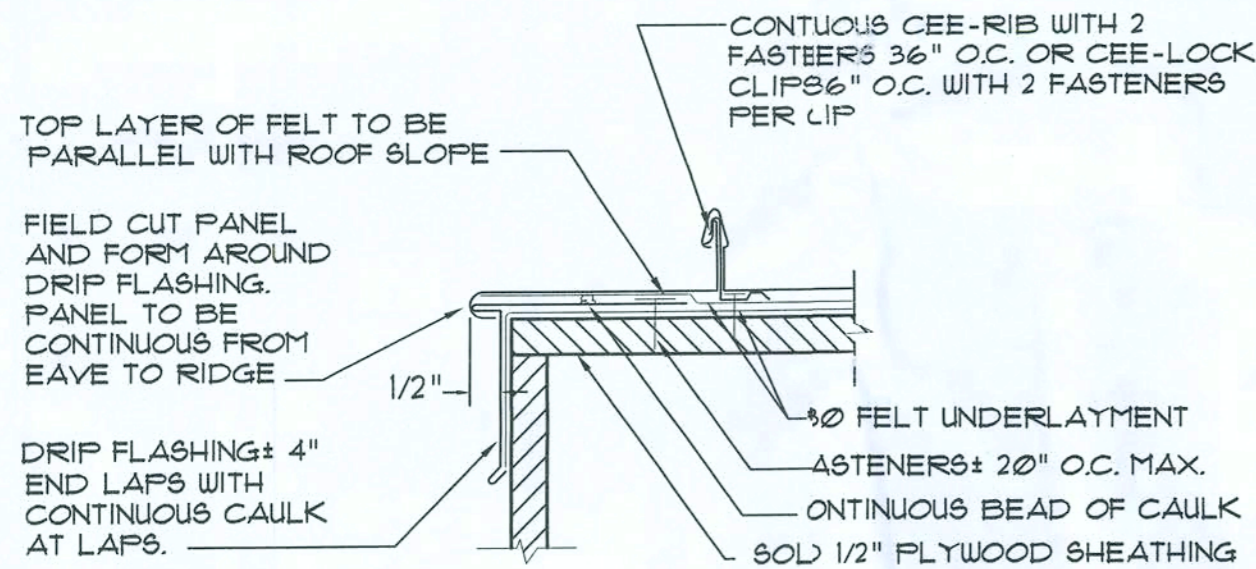
PANEL DETAIL

SCALE: NONE



RIDGE/HIP DETAIL

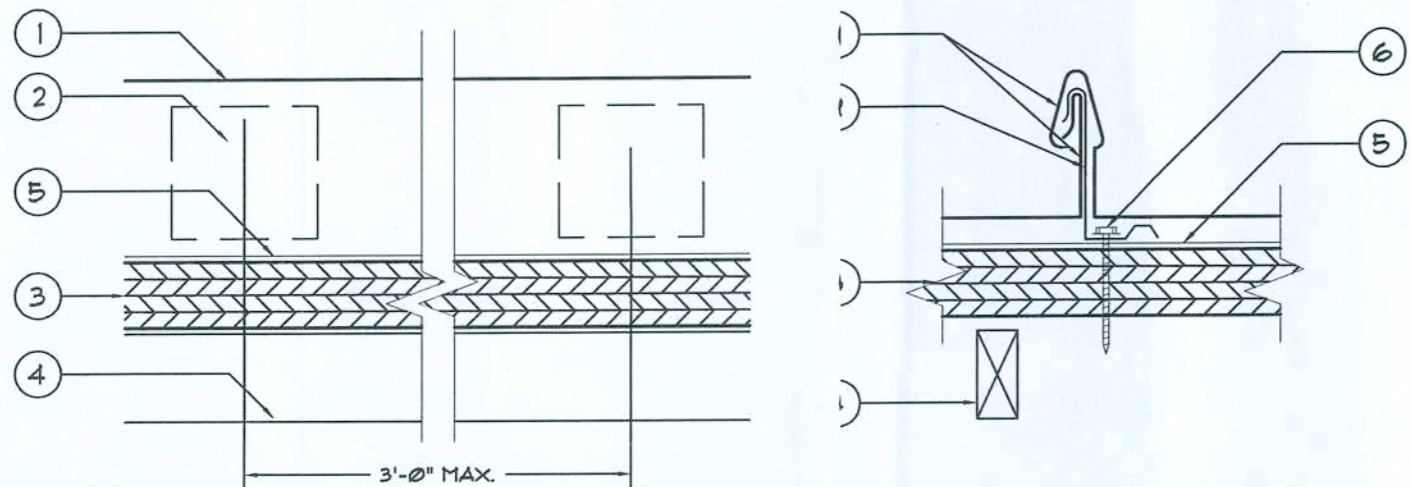
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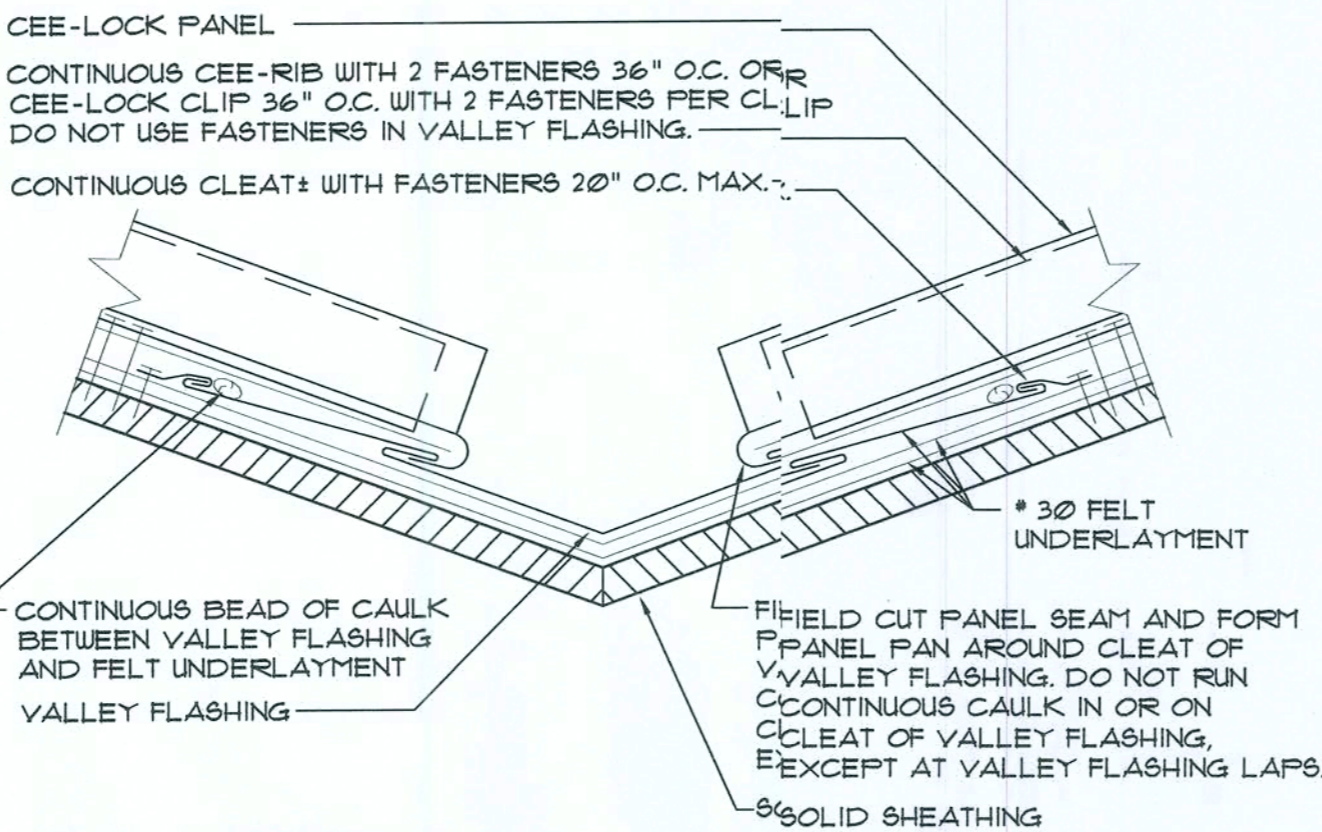
NOTE: FIELD CUT AND FORM LAST PANEL AROUND DRIP FLASHING. PANEL MUST BE CONTINUOUS FROM RIDGE TO EAVE.

GABLE DETAIL / PANEL TURNDOWN

SCALE: NONE

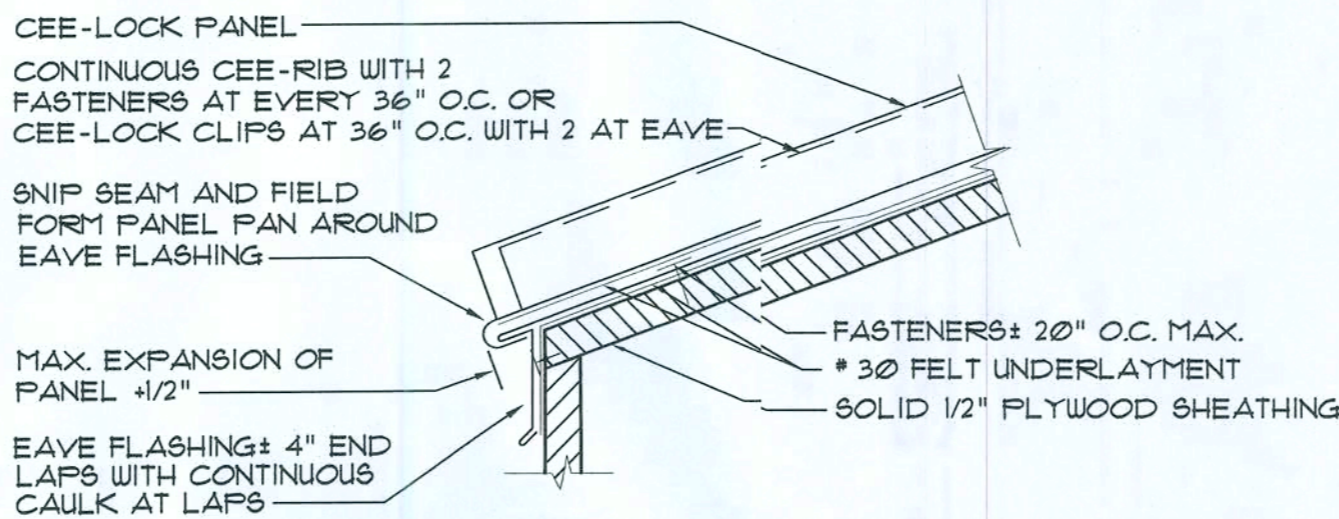


- CEE-LOCK PANEL - NO. 24 MSG (MIN. YIELD STRENGTH 40,000 PSI) THICKNESS COATED STEEL, 16 1/2 IN. WIDE 1 1/2 IN. GH. PANEL (NON-STRUCTURAL VINYL WEATHER SEAL OPTIONAL IN SEAM) CONTINUOUS OVER TWO OR MORE SPANS WITHOUT LAPS.
- CEE-CLIP (PANEL CLIP) - ONE PIECE ASSEMBLY FABRICATED FROM NO. 24 MSG (MIN. YIELD STRENGTH 40,000 PSI) COATED STEEL. CEE-CLIP LOCATED AT EACH PANEL SIDE LAPS BEING PLACED AT 3'-0" O.C. MAXIMUM.
- DECK - 5/8" APA 40120 PLYWOOD.
- JOIST - 2" X 4" AT 2'-0" O.C. MAXIMUM WITH #12 X 1/2" PAN HEAD WOOD SCREW AT 12" O.C. MAX. AT PLYWOOD TO JOIST CONNECT AND AT PLYWOOD ENDS.
- 30 FELT UNDERLAYMENT.
- FASTENERS (SCREWS) - FOR ATTACHING "CEE-CLIP" (ITEM TWO) TO DECK USE NO. 10 PANCAKE HEAD TEK'S STEEL SCREWS, TWO FASTENER PER "CEE-CLIP".



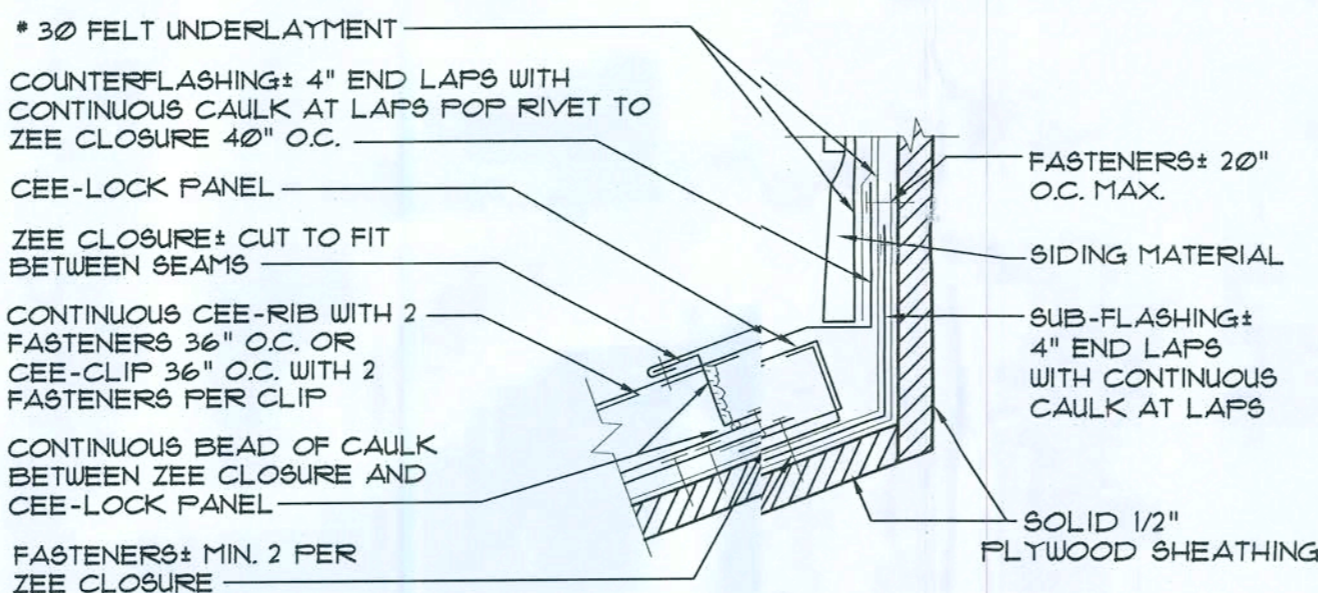
VALLEY DETAIL

SCALE: NONE



EAVE DETAIL

SCALE: NONE



NOTE: FIELD CUT ZEE CLOSURE TO FIT BETWEEN PANEL SEAMS.

FLASHING DETAIL

SCALE: NONE

NOTE: ALL FELT UNDERLAYMENT, CAULKING, AND FASTENERS, SHALL BE FURNISHED AND INSTALLED BY THE ROOFING INSTALLER.

ALL ARCHITECTURAL PANELS ARE 24 GAUGE METAL, TAKE CARE IN HANDLING AND INSTALLATION TO AVOID DAMAGING OR DEFORMING THE PANELS.

NOTE:

THE STANDING SEAM METAL ROOF SYSTEM SHALL COMPLY WITH BERRIDGE MANUFACTURING COMPANY'S SPECIFICATIONS & DETAILS AS SHOWN ON THIS DRAWING, OR AN APPROVED PRODUCT OF EQUAL DESIGN.

BERRIDGE MANUFACTURING COMPANY
1720 MAURY STREET
HOUSTON, TX 77026
1-800-231-8121
<http://www.berridge.com>

APPROVED ALTERNATE:

ENGLERT, INC.
1200 AMBOY AVENUE
PERTH AMBOY, NJ 08862

STANDING SEAM PANEL INSTALLATION NOTES

- DOUBLE LAYER OF NUMBER THIRTY FELT UNDERLAYMENT OR EQUAL AND THE CEE-LOCK OPTIONAL VINYL WEATHERSEAL (US PATENT NO. 4,641,415) ARE RECOMMENDED FOR ALL APPLICATIONS WHERE THE ROOF SLOPE IS 3 ON 12 OR LESS.
- STRIPPABLE FILM: THE STRIPPABLE PLASTIC FILM WHICH IS APPLIED OVER MOST BERRIDGE PREFINISHED PRODUCTS, PANELS, FLASHINGS, COLLS, AND FLAT SHEETS PROVIDES PROTECTION OF THE FINISH DURING FABRICATION AND TRANSIT. THIS FILM MUST BE REMOVED PRIOR TO INSTALLATION.
- SOLID SHEATHING REQUIREMENTS: 5/8" PLYWOOD SHEATHING SHALL BE USED TO PROVIDE SUFFICIENT HOLDING POWER FOR FASTENERS.
- SHEATHING INSPECTION:
 - SHEATHING END JOINTS SHOULD BE STAGGERED.
 - ALL END JOINTS SHOULD MEET AT EITHER A JOIST OR RAFTER.
 - BLOCKING OR "H" CLIPS SHOULD BE USED IF JOISTS DO NOT REMAIN FLAT UNDER THE WEIGHT OF WORKMEN.
 - USE SHIMS TO KEEP ENTIRE SUBSTRATE EVEN. UNEVEN SUBSTRATE WILL RESULT IN "OIL-CANNING" IN PANELS. SUBSTRATE SHOULD BE LEVEL TO 1/4" IN 20'-0".
 - ALL CUTS AT PENETRATIONS SHOULD BE TIGHT, WITHOUT GAPS.
 - USE WOOD-FRAMED CRICKETS AT LARGE PENETRATIONS.
 - MAKE SURE SUBSTRATE JOINTS ARE TIGHT AT ALL HIPs, VALLEYS, AND RIDGES.
- FASCIA/RAKE INSPECTION:
 - STRIKE A LINE THE FULL LENGTH OF THE FASCIA OR RAKE. IF NOT STRAIGHT, CORRECT WITH SHIMS.
 - MAKE SURE FASCIA/RAKE IS FLUSH WITH SHEATHING.
- FELT UNDERLAYMENT: A MINIMUM SINGLE LAYER OF 30 FELT UNDERLAYMENT (OR EQUAL) MUST BE APPLIED OVER SOLID SHEATHING AS SHOWN IN THE BERRIDGE MANUFACTURING COMPANY TYPICAL FELTING DETAILS. THE USE OF ADDITIONAL LAYERS OF 30 FELT IS RECOMMENDED ON LOW-SLOPED ROOFS, AT ALL VALLEY CONDITIONS, AT ROOF PENETRATIONS, AND CERTAIN OTHER FLASHING CONDITIONS AS DEFINED IN THE CEE-LOCK PANEL TYPICAL DETAILS. (THE UNDERLAYMENT MUST COVER THE ENTIRE ROOF DECKED SURFACE).
- FELTING INSTALLATION:
 - DO NOT USE RED ROBIN PAPER UNDER METAL ROOFING PANELS.
 - SWEEP ROOF AREA CLEAN.
 - USE FLAT HEAD GALVANIZED ROOFING NAILS x 1 1/4" LONG WITH BERRIDGE GALVANIZED FELT CAPS.
 - INSTALL VALLEY FELT FIRST.
 - INSTALL FELT PARALLEL TO EAVE (2 LAYERS REQUIRED AT EAVE), STARTING AT EAVE AND USING MINIMUM 6" LAPS. USE TWO LAYERS OF FELT ON ENTIRE ROOF DECK IF ROOF SLOPE IS 3 ON 12 OR LESS. 2 LAYERS OF FELT REQUIRED AT EAVE REGARDLESS OF SLOPE.
- FLASHING: IF BERRIDGE MANUFACTURING COMPANY IS TO SUPPLY FLASHINGS, ALL FLASHINGS WILL BE FABRICATED IN 10'-0" LENGTHS WITH SQUARE END CUTS ONLY. THE PURCHASER MUST PROVIDE ALL DIMENSIONS AND DEGREE OF ANGLES.
- FLASHING INSTALLATION:
 - REMOVE STRIPPABLE PLASTIC FILM FROM ALL FLASHINGS PRIOR TO INSTALLATION.
 - ALWAYS STAGGER JOINTS WHEN ONE FLASHING IS INSTALLED OVER OTHER FLASHING.
 - INSTALL ALL FLASHINGS AS PER BERRIDGE TYPICAL DETAILS.
 - ALL FLASHINGS ARE TO BE DESIGNED AND INSTALLED TO NOT TRAP WATER.
- PANEL INSTALLATION:
 - REMOVE STRIPPABLE PLASTIC FILM FROM EACH PANEL PRIOR TO INSTALLATION.
 - START PANEL INSTALLATION AT ON GABLE END OF THE ROOF, WORKING TOWARD THE OTHER GABLE END. MAKE SURE PANELS ARE PERPENDICULAR TO THE EAVE. AT VALLEY AREAS, MAKE SURE PANELS ARE INSTALLED SO THAT DRAINAGE HAS FREE FLOW AND IS NOT OBSTRUCTED BY PANEL SEAMS.
 - BEGIN BY INSTALLING J-CLIP AND/OR DRIP FLASHING AT GABLE THEN PLACING FIRST CEE-LOCK CONTINUOUS LENGTH PANEL.
 - INSTALL CEE-LOCK CLIPS OR CONTINUOUS CEE-RIB AS PER BERRIDGE TYPICAL DETAILS AND CEE-LOCK CONTINUOUS RIB/CLIP INSTALLATION NOTES.
 - IF OPTIONAL VINYL WEATHERSEAL (US PATENT 4,641,415) IS TO BE USED, THIS WILL BE EITHER FACTORY INSTALLED OR INSTALLED IN THE FIELD AS THE CEE-LOCK PANEL EXITS FROM THE CL-21 PORTABLE ROLL FORMER.
 - INSTALL PANELS BY PLACING THE FEMALE LEG OVER THE MALE LEG AND CONTINUOUS CEE-RIB OR CLIP AND SNAPPING THE INTEGRAL SEAM INTO PLACE WITH HAND PRESSURE. DO NOT USE EXCESSIVE FORCE, FOOT PRESSURE OR OTHER TOOLS SUCH AS MALLETS AS THIS WILL SCRATCH OR DENT THE PANEL RIB AND CAUSE DEFORMATION TO THE VINYL WEATHERSEAL.
 - EACH PANEL IS TO BE KEPT TIGHT AGAINST THE LEG OF THE ADJOINING PANEL. NEVER PERMIT A GAP BETWEEN VERTICAL LEGS.
 - KEEP PANELS ALIGNED SO THAT SEAMS MATCH AT HIPs, VALLEYS AND WHERE VERTICAL PANELS ADJOIN ROOF PANELS. DO NOT INSTALL LONG CONTINUOUS RUNS OF PANELS ALL AT ONE TIME WHERE SEAM LINES MUST MATCH. INSTALL TEN OR TWELVE PANELS IN ONE ELEVATION AND THEN FOLLOW WITH A LIKE NUMBER OF PANELS ON THE OTHER ELEVATION. WHEN YOU INSTALL PANELS IN THIS MANNER, YOU WILL BE ABLE TO MAKE ANY ADJUSTMENTS REQUIRED TO INSURE SEAM MATCHING.
 - COPPER-COTE, CHAMPAGNE, LEAD-COTE, AND PREWEATHER GALVALUME PANEL INSTALLATION: NOTE THE SERIES OF ARROWS PAINTED ON THE UNDERSIDE OF THE PANEL. ALL PANELS MUST BE INSTALLED IN CONSISTENT MANNER, MEANING THAT THE ARROWS ON EVERY PANEL ARE ALL POINTING IN THE SAME DIRECTION. IF A PANEL IS FROM A DISTANCE, A DIFFERENT SHADE DUE TO THE GRANULAR OF THE PIGMENTS IN THE FINISH. METALLIC FINISHES ARE MATCH - LOT FINISHES. DO NOT MIX LOTS.
- CEE-LOCK CLIP INSTALLATION:
 - INSTALL CLIPS AT PER BERRIDGE TYPICAL CEE-LOCK PANEL DETAILS.
 - CLIP SPACING ON SOLID SHEATHING TYPICALLY 36" ON CENTER.
- FASTENERS:
 - FLATED FASTENERS WHEN FASTENING TO WOOD. MAKE SURE ALL FASTENERS ARE DRIVEN STRAIGHT AND SET FLAT. DO NOT OVERDRIVE FASTENERS AS THIS WILL CAUSE THE CLIP AND/OR FLASHINGS TO BUCKLE OR BECOME RECESSED BELOW THE ELEVATION OF THE SUBSTRATE.
- SEALANT RECOMMENDATIONS: TREMCO, INC. SPECTREM 1 SILICONE SEALANT.

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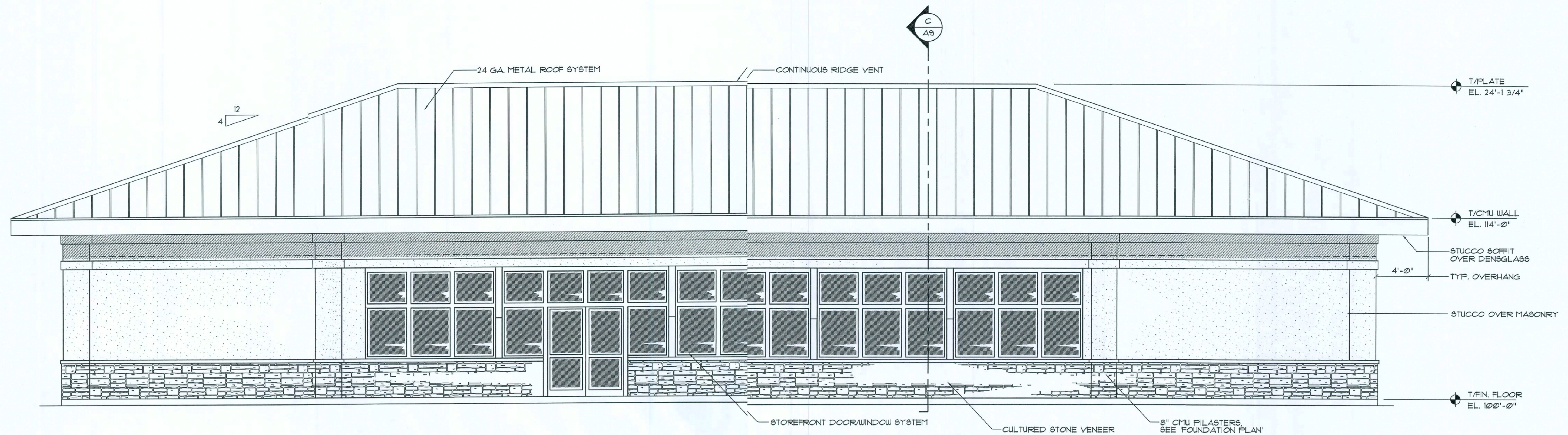
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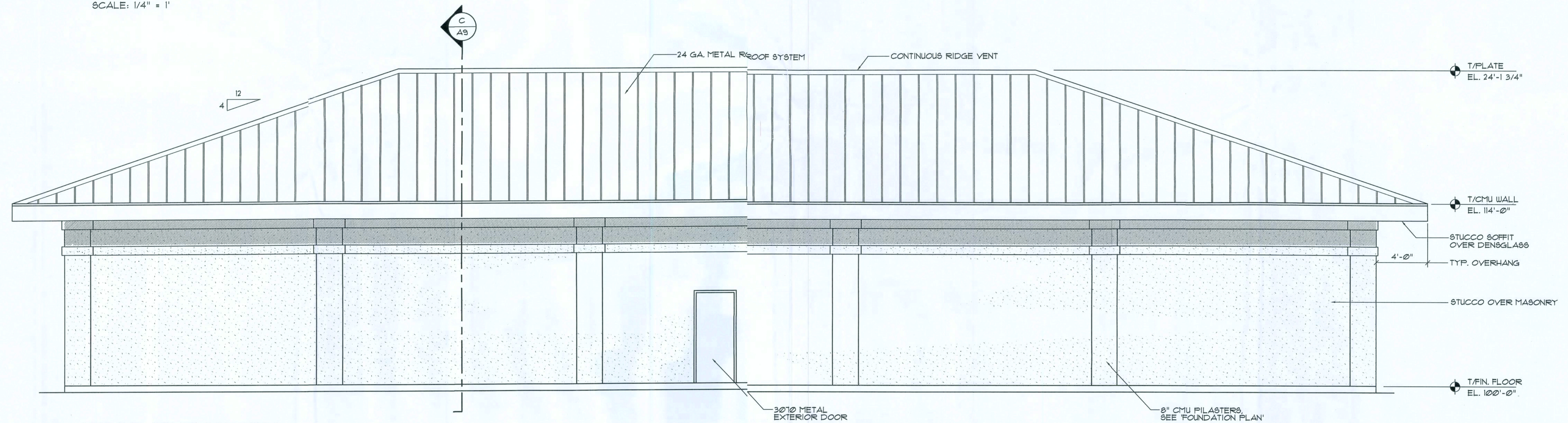
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OF 18
SHEETS



FRONT ELEVATION

SCALE: 1/4" = 1'



REAR ELEVATION

SCALE: 1/4" = 1'

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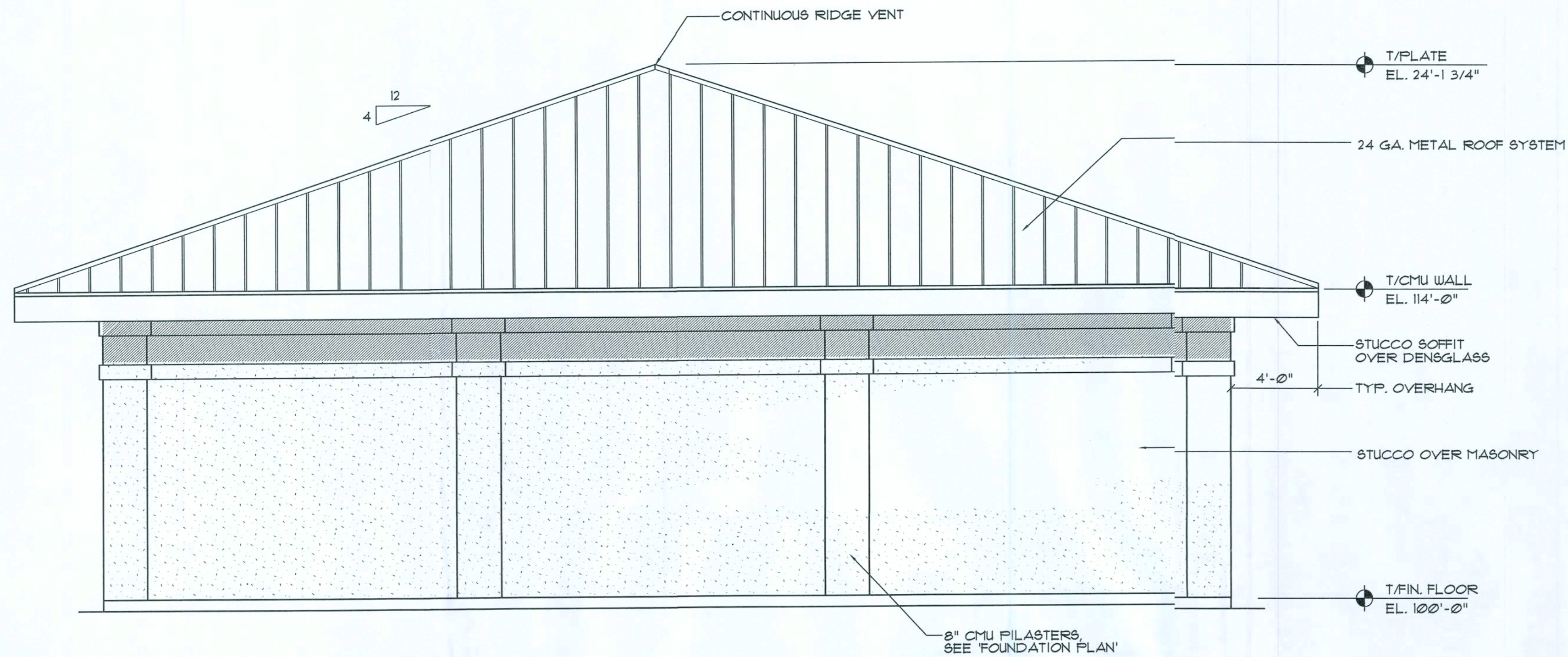
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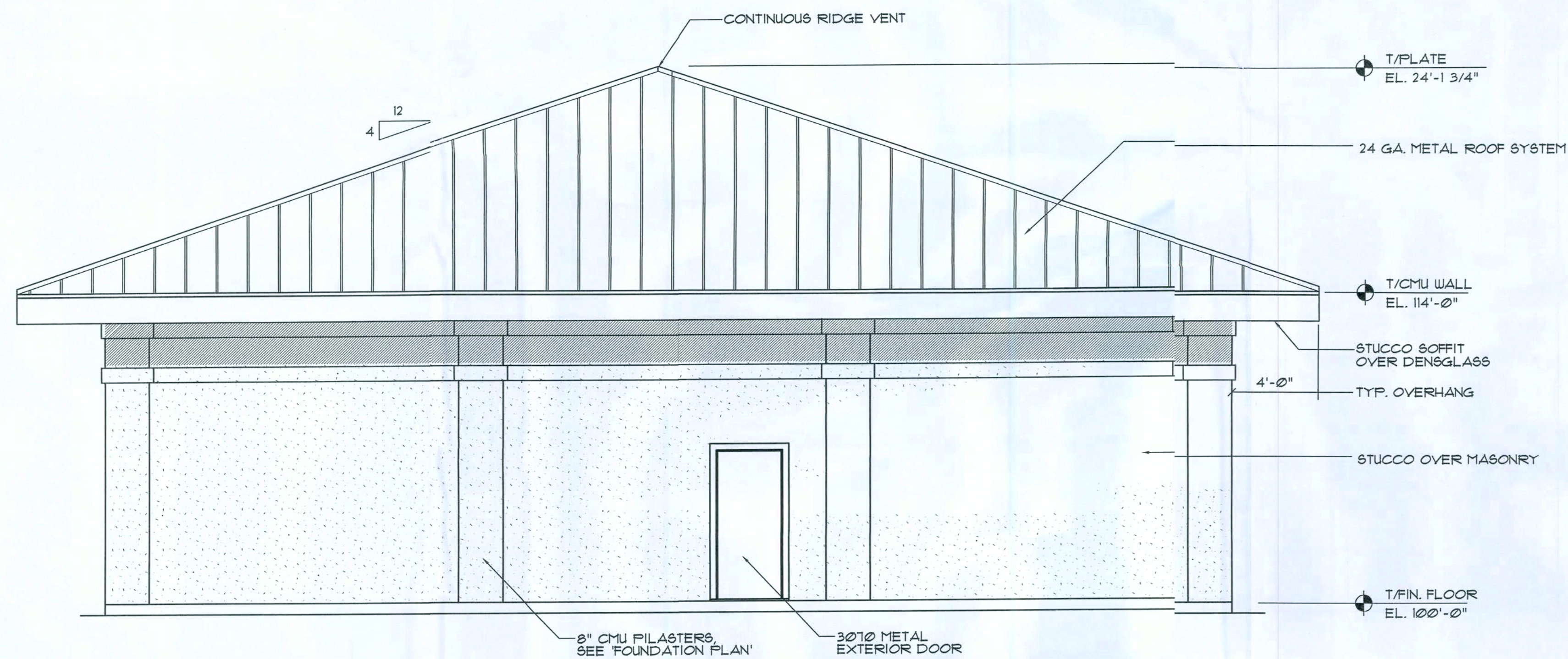
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LEFT SIDE ELEVATION

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RIGHT SIDE ELEVATION

SCALE: 1/4" = 1'



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ROOF RIDGE TO HAVE
A CONTINUOUS RIDGE VENT

PREFABRICATED WOOD TRUSSES
@ 24" O.C. CERTIFIED BY A FLORIDA
ENGINEER TO WITHSTAND 110 MPH WINDS

24 GA ARCHITECTURAL STANDING SEAM
METAL ROOF, INSTALLED PER MANUFACTURER'S
RECOMMENDATIONS FOR 110 MPH WINDS.

PEEL AND STICK MEMBRANE
OVER 5/8" PLYWOOD SHEATHING

SIMPSON LTT20B ANCHOR TIE W/1/2" A.B.
@ EA. TRUSS/STL. B.M. CONNECTION

114'-0" EL. T/STL. BM.

112'-8" EL. B/SOFFIT

STUCCO SOFFIT SYSTEM OVER
1/2" DENSGLASS

STUCCO OVER EXPANDED
POLYSTYRENE, BACK WRAP MESH
AT ALL INSIDE CORNERS

3/4" CDX PLYWOOD

110'-0" EL. T/ WINDOW

STOREFRONT SYSTEM

SET ALUMINUM SILL IN FULL
BEAD OF SEALANT

CULTURED STONE VENEER

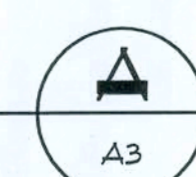
5 VERTICAL DOUELS
@ 32" MAX. SPACING
W/2'-6" LAP

98'-0" EL. T/ FOOTING

FOOTING AND
FILASTER BEYOND

TYPICAL WALL SECTION

SCALE: 3/4" = 1'-0"



NOTE!
COMPLETE BUILDING SHALL HAVE A (1) HOUR FIRE RATED
CEILING - (2) LAYERS OF TYPE 'X' 5/8" GWB ATTACHED
DIRECTLY TO BOTTOM SIDE OF TRUSSES, PRIOR TO ANY
WALL FRAMING.

GALV. UPLIFT CONNECTORS SHALL BE
PROVIDED AT EACH TRUSS, IN ACCORDANCE
WITH THE FLORIDA BUILDING CODE SECTION 1609.
(DESIGN: 110 MPH WIND LOAD)

11'-0" CEILING HEIGHT

100'-0" EL. T/ FIN. FLOOR

ROOF RIDGE TO HAVE
A CONTINUOUS RIDGE VENT

PREFABRICATED WOOD TRUSSES
@ 24" O.C. CERTIFIED BY A FLORIDA
ENGINEER TO WITHSTAND 110 MPH WINDS

24 GA ARCHITECTURAL STANDING SEAM
METAL ROOF, INSTALLED PER MANUFACTURER'S
RECOMMENDATIONS FOR 110 MPH WINDS.

PEEL AND STICK MEMBRANE
OVER 5/8" PLYWOOD SHEATHING

SIMPSON META20 W/ T95 GALVANIZED
SADDLE @ EA. TRUSS/CMU WALL CONNECTION

114'-0" EL. T/CMU WALL

112'-8" EL. B/FASCIA

4" CONT. VENT W/SCREEN

STUCCO SOFFIT SYSTEM OVER
1/2" DENSGLASS

STUCCO OVER EXPANDED
POLYSTYRENE, BACK WRAP MESH
AT ALL INSIDE CORNERS

108'-0" EL. T/ BOND BEAM

CMU BOND BEAM
W/2'-5 BARS CONT.

GALV. METAL STUCCO STOP

STUCCO ON SLOPING
MORTAR WASH (TYP)

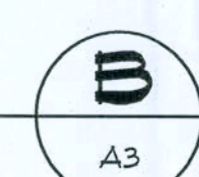
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11'-0" CEILING HEIGHT

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S & S FOOD STORE NO. 29
BIRLEY & PINEMOUNT ROAD
LAKE CITY, FLORIDA

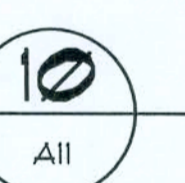
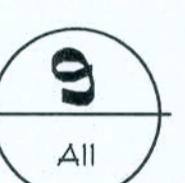
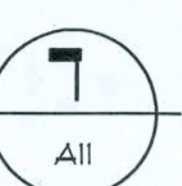
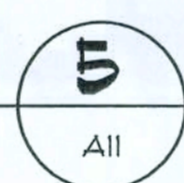
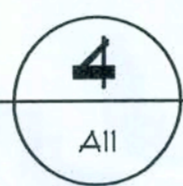
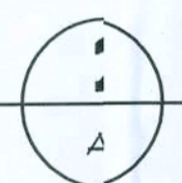
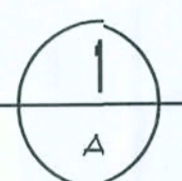
Craig Salley
3/10/10

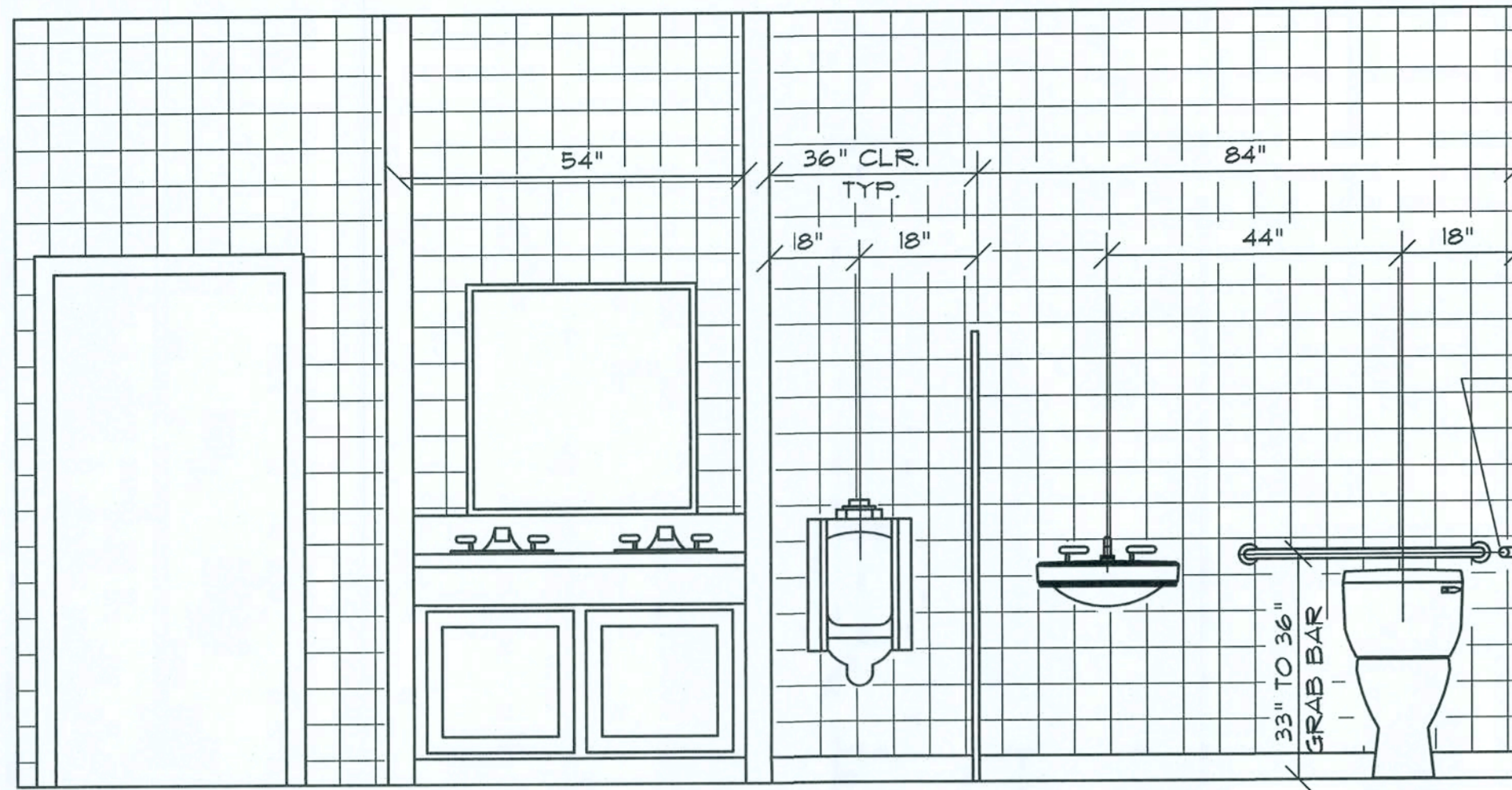
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FL REG. NO. 4475

DATE
2/12/10
DRAWN
DJR
APPROVED

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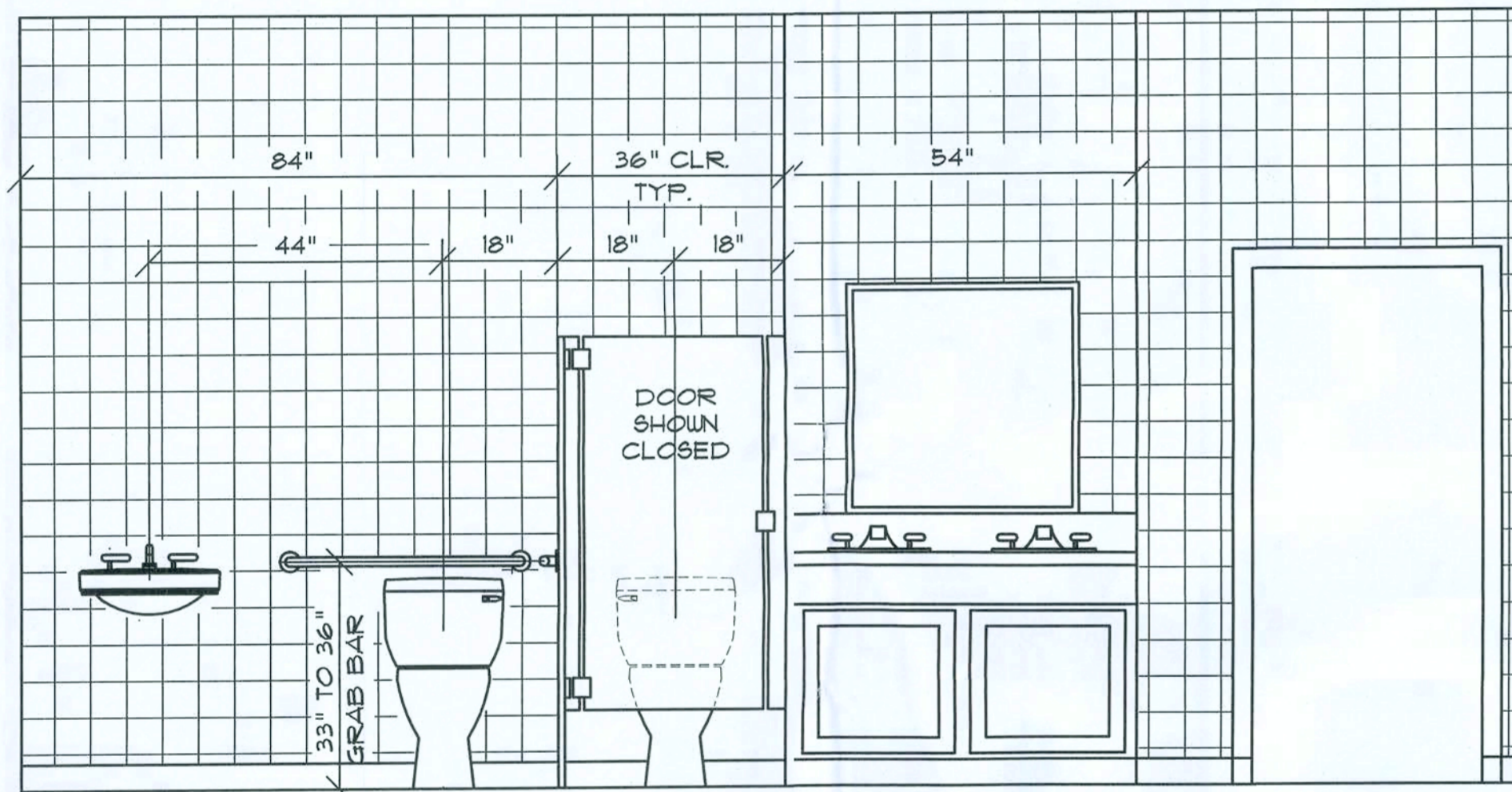




INTERIOR ELEVATION

SCALE 1/2" = 1'-0" - MENS RESTROOM

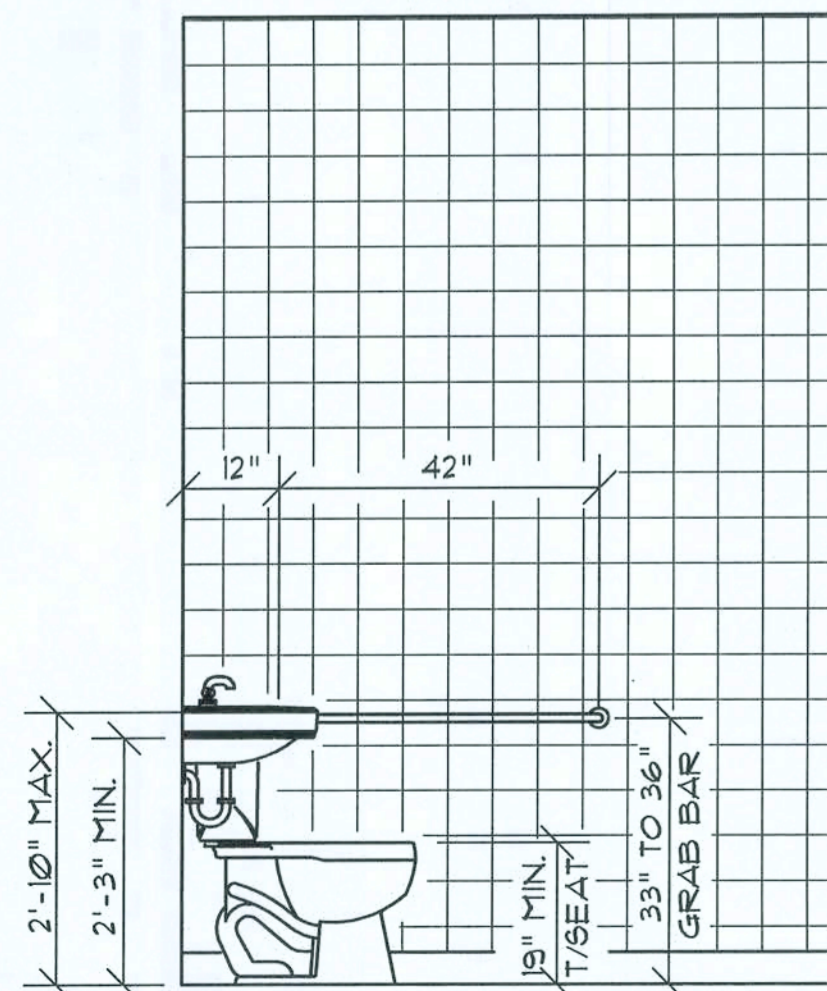
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INTERIOR ELEVATION

SCALE 1/2" = 1'-0" - WOMANS RESTROOM

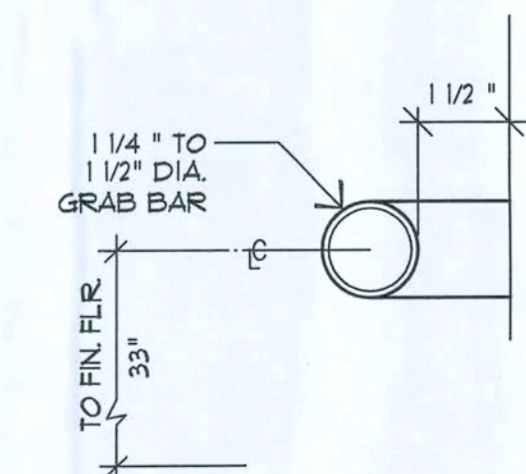
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INTERIOR ELEVATION

SCALE 1/2" = 1'-0" - TYP. HANDICAP RESTROOM

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A12



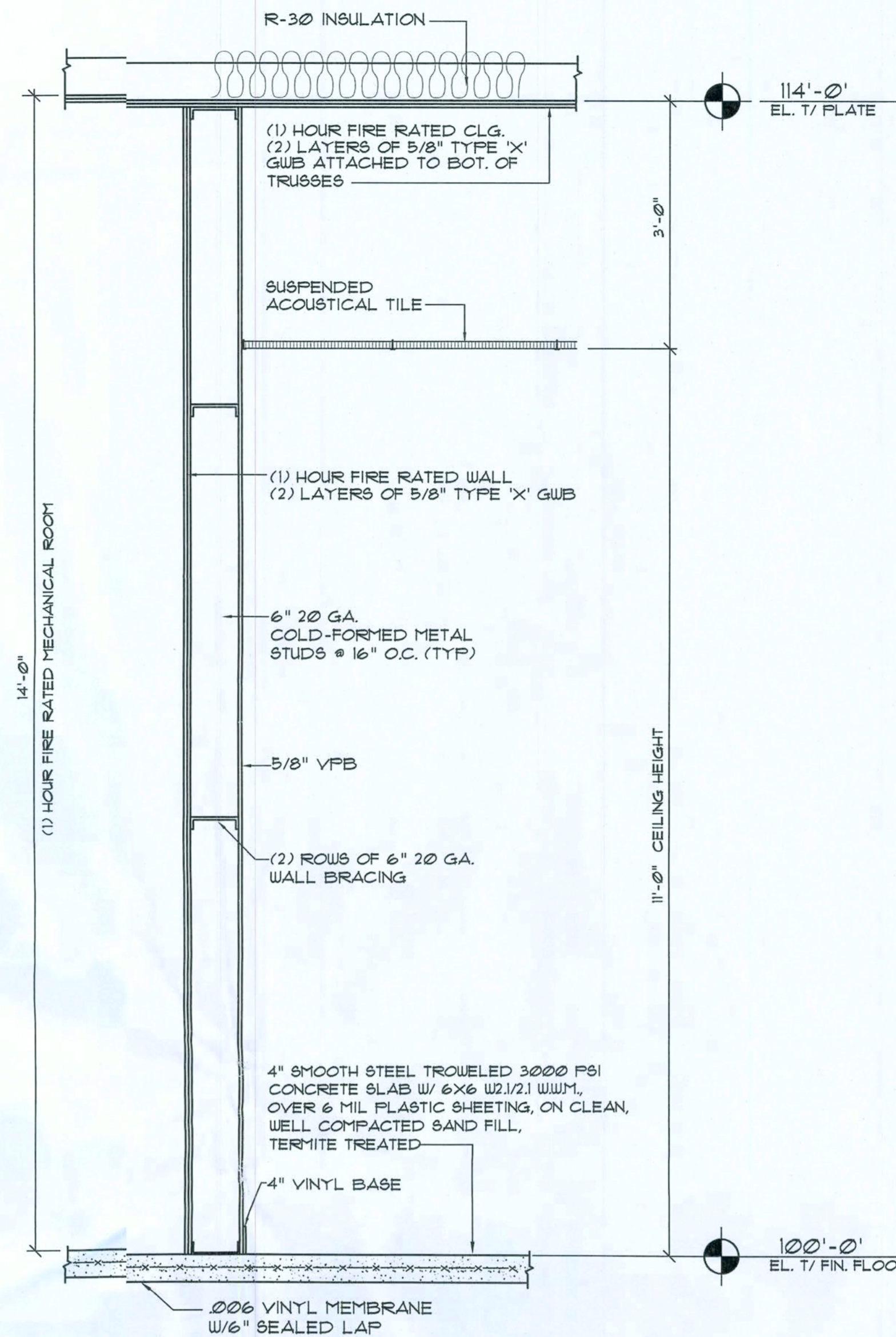
TYP. GRAB BAR DETAIL

SCALE : NONE

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A12

GRAB BARS AT WATER CLOSET (311A-9)

- ONE AT SIDE 42" LONG EXTENDING 24" IN FRONT OF WATER CLOSET, MOUNTED 33" ABOVE FLOOR.
- BARS SHALL BE 1-1/4" TO 1-1/2" IN DIAMETER WITH 1-1/2" CLEARANCE TO WALL.
- BAR FASTENERS AND MOUNTING SUPPORT SHALL BE ABLE TO WITHSTAND 250 LBS. POINT LOAD IN BENDING, SHEAR TENSION. ROTATION IN FITTING NOT ALLOWED.
- SURFACE OF WALL ADJACENT TO GRAB BAR IS TO BE FREE OF SHARP OR ABRASIVE ELEMENTS

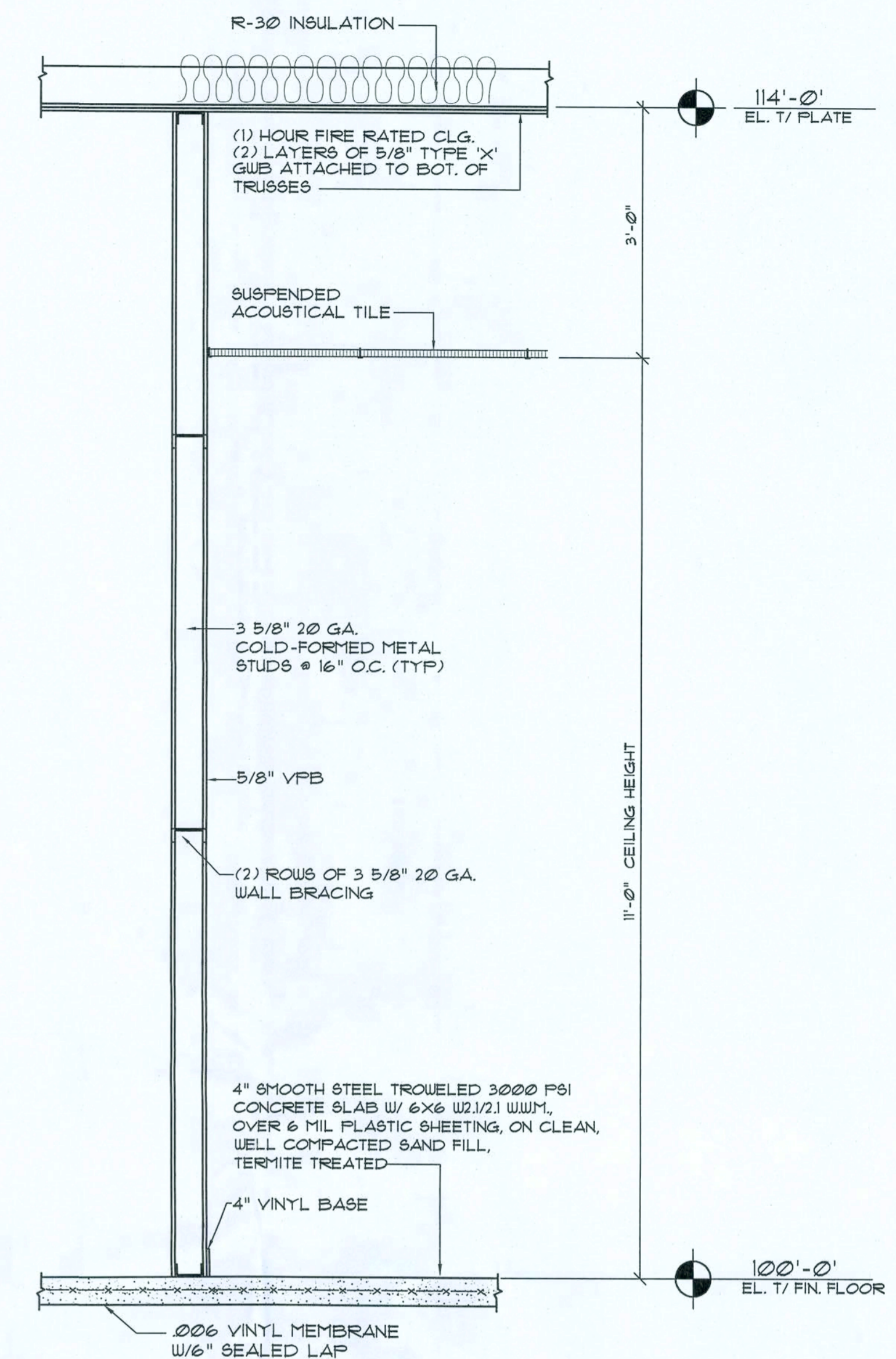


(1) HR. FIRE RATED WALL

TYPICAL WALL SECTION

SCALE: 3/4" = 1'-0"

D
A12



TYPICAL WALL SECTION

SCALE: 3/4" = 1'-0"

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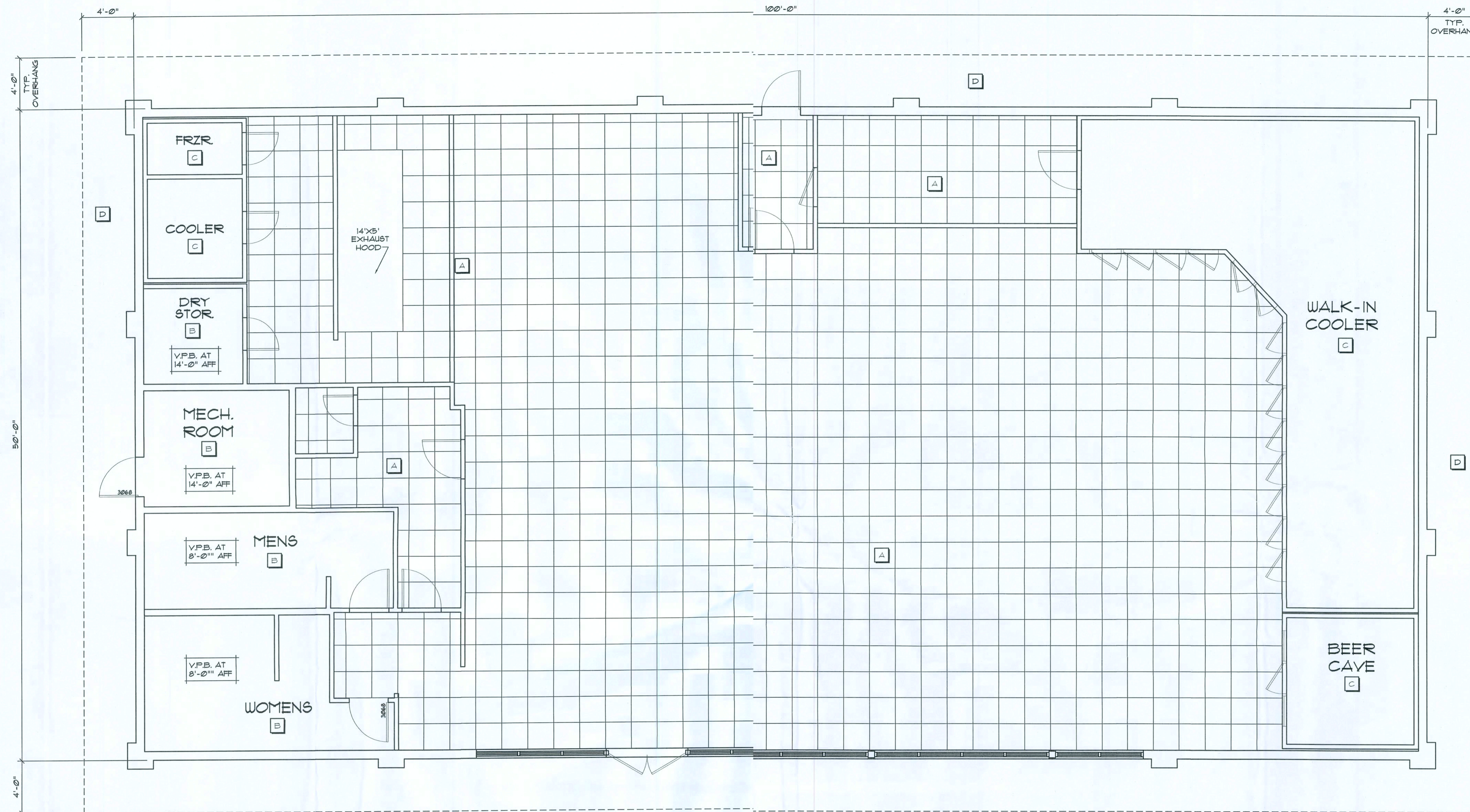


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REFLECTED CEILING PLAN

SCALE: 1/4" = 1'

NOTE!
COMPLETE BUILDING SHALL HAVE A (1) HOUR FIRE RATED
CEILING - (2) LAYERS OF TYPE 'X' 5/8" GWB ATTACHED
DIRECTLY TO BOTTOM SIDE OF TRUSSES.

NOTE!
ALL CEILING AREAS SHALL BE NOMINAL 11'-0" ABOVE
THE FINISHED FLOOR - UNLESS NOTED OTHERWISE

CEILING TYPES

- A** ACCOUSTICAL TILE, 24" X 24" X 3/4" ANGLED TEGULAR
W/ PRELUDE 15/16" EXPOSED TEE GRID
- B** 5/8" VFB, DIRECT HUNG, TAPED & FINISHED, W/ 2 COATS OF LATEX
CEILING PAINT, COLOR & GLOSS AS SELECTED BY THE OWNER
- C** COOLER CEILING, PER COOLER MANUFACTURER
- D** STUCCO SYSTEM ON 5/8" DENSGLASS BOARD

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Craig Salley
3/10/10

CRAIG SALLEY, R.A.
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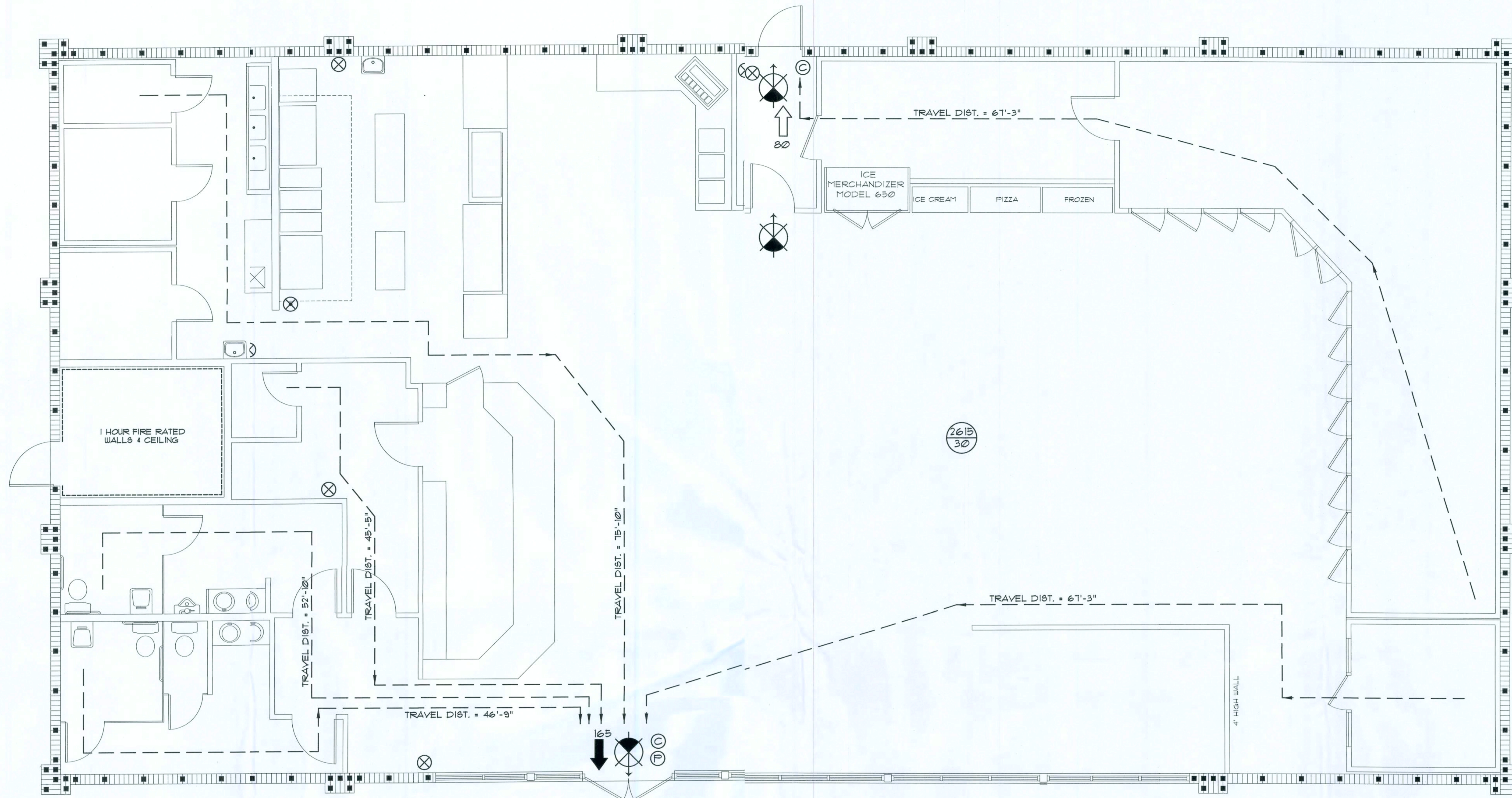
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SHEETS



LIFE SAFETY PLAN

SCALE: 1/4" = 1'

OCCUPANCY LOAD - MERCHANTILE

AREA	TOTAL SF.	ALLIABLE	TOTAL OCCUP.
STORE	2615	1/30	87
KITCHEN	683	1/20	4
OFFICE	162	1/100	2
MECH. ROOM	122	1/30	1

BLDG. TOTAL 3582 94

EXIT ACCESS TRAVEL DISTANCE PER FBC 1016, TAB: 1016.1
OCCUPANCY - MERCHANTILE:
150 FT. (W/O SPRINKLER SYSTEM)

LEGEND

- EXIT LIGHT - ARROW REPRESENTS DIRECTION OF EXIT
- HEAT DETECTOR - COORDINATE WITH ELECTRICAL DWGS.
- WALL HUNG "ABC" FIRE EXTINGUISHER
- WALL HUNG "K" FIRE EXTINGUISHER
- DOOR /CLOSER FOR EXITING OR RATING REASONS
- PANIC DEVICE
- ROOM SQUARE FOOTAGE
- ROOM OCCUPANCY LOAD
- PRIMARY EGRESS W/EXIT CAPACITY
- SECONDARY EGRESS
- 1 HOUR FIRE RATED WALL

FIRE/VENTILATION SYSTEM

THIS BUILDING SHALL BE EQUIPPED WITH ALL THE REQUIREMENTS OF NFPA 96: STANDARD FOR VENTILATION CONTROL AND FIRE PROTECTION OF COMMERCIAL COOKING OPERATIONS.

NOTE!

EMERGENCY LIGHTING AND EXIT SIGNS, SHALL BE PROVIDED AS DIRECTED BY THE FIRE MARSHAL, AND SHALL BE WIRED PER NEC 100-12F.

NOTE!

COMPLETE BUILDING SHALL HAVE A (1) HOUR FIRE RATED CEILING - (2) LAYERS OF TYPE "X" 5/8" GWS ATTACHED DIRECTLY TO BOTTOM SIDE OF TRUSSES, PRIOR TO ANY WALL FRAMING.



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GENERAL CONDITIONS

- THE 1987 EDITION OF "THE GENERAL CONDITIONS OF THE CONTRACT FOR THE CONSTRUCTION OF BUILDINGS STANDARD FORM OF THE MERICAN INSTITUTE OF ARCHITECTS" IS HEREBY MADE A PART OF THE SPECIFICATIONS.
- ANY MENTION IN THESE SPECIFICATIONS OR INDICATION ON TE DRAWINGS OF ARTICLES, MATERIALS, OPERATIONS, METHODS, ETC. REQUIRES THAT THE CONTRACTOR FURNISH EACH ITEM SO MENTIONED OR INDICAD, OF THE KIND, TYPE OR DESIGN AND QUALITY SPECIFIED OR SHOWN I THE DRAWINGS. THE CONTRACTOR SHALL PROVIDE ALL NECESSAY SUPERVISION TO COMPLETE THE WORK IN ACCORDANCE WITH THE DRAWING AND INTENT OF THESE SPECIFICATIONS EVEN THOUGH SUCH MENTION OF ATICLES, MATERIALS, OPERATIONS, METHODS, QUALITY, QUALIFICATION OR CONDITIONS IS NOT EXPRESSED IN COMPLETE SENTENCES.
- WHERE DEVICES, ITEMS OR PARTS THEREOF, ARE REFERRED O IN THE SINGULAR, IT IS INTENDED THAT SUCH REFERENCE SHALL AFFY TO AS MANY SUCH DEVICES, ITEMS OR PARTS AS ARE REQUIRED TO PROPERLY COMPLETE ALL DIVISIONS OF THE WORK IN THE SCOPE OF THIS PROJEC.
- SCHEDULES OF WORK INCLUDED IN THESE SPECIFICATIONS AE GIVEN FOR CONVENIENCE AND SHALL NOT BE CONSIDERED AS A COMPREHENSIVE LIST OF ITEMS NECESSARY TO COMPLETE THE WORK AS DESCRIED, DRAWN AND SPECIFIED.
- THE CONTRACTOR SHALL COORDINATE THE WORK COVEREDIEREAFTER DESCRIBED WITH THE WORK OF OTHERS INVOLVED IN THIS PJECT. THE NECESSARY INFORMATION AND THE ITEMS, MATERIALS AND RUIMENT SHALL BE DELIVERED WHEN REQUIRED IN ORDER TO PREVENT ANY ELAY IN THE PROGRESS AND COMPLETION OF WORK.
- FIELD VERIFY ALL EXISTING CONDITIONS, DIMENSIONS AND ETAILS AND NOTIFY THE ARCHITECT IN WRITING OF ANY DISCREPANCIES PRIOR T PROCEEDING WITH THE WORK.
- ALL WORK SHALL CONFORM TO THE REQUIREMENTS OF ALL DICAL GOVERNING AGENCIES AND CODES.
- CONTRACTOR SHALL PROVIDE TEMPORARY WATER, POWER ,ID TOILET FACILITIES AS REQUIRED BY CODE OR ORDINANCE.
- IF REQUIRED, A CONSTRUCTION BARRICADE SHALL BE INSTALED BY THE CONTRACTOR THAT IS AS REQUIRED BY THE GOVERNING AUTHORITY. NO SIGNS OTHER THAN THOSE AUTHORIZED BY THE OWNER WILL E PERMITTED ON THIS BARRICADE.
- CONTRACTOR SHALL PAY FOR ALL CONSTRUCTION RELATEDPERMITS AND FEES REQUIRED TO CONSTRUCT THIS PROJECT.
- APPROVED CONSTRUCTION PERMIT DOCUMENTS SHALL BE KPT IN A PLAN BOX AND SHALL NOT BE USED BY ANY WORKMEN. ALL CONSTRUCTION SETS SHALL REFLECT THE SAME INFORMATION. THE CONTRACTORSHALL ALSO MAINTAIN, IN GOOD CONDITION, ON THE PREMISES AT ALL TIES UNDER THE CARE OF THE SUPERINTENDENT, ONE COMPLETE SET OF PLAB WITH ALL REVISIONS, ADDENDA, AS-BUILT CONDITIONS, AND CHANGEE CDERS POSTED. THE CONTRACTOR MUST TURN THIS DRAWING SET OVER TO TE OWNER AT THE COMPLETION OF THIS PROJECT.
- THE CONTRACTOR SHALL VERIFY AND CONFORM TO ALL REJIREMENTS OF ALL UTILITY COMPANIES WHENEVER ANY MATERIAL, EQUIPME' OR METHOD IS SPECIFIED OR INDICATED BY PROPRIETARY NAME OR MANUFACTURER, THE MATERIAL, EQUIPMENT, METHOD SO SPECIFIED OR INDICATEDSHALL BE DEEMED TO BE FOLLOWED BY THE WORDS "OR EQUAL" EXCEPT IN THSE CASES WHERE ITEMS SPECIFIED BY NAME ARE MARKED "NO SUBSTITUTE."
- ALL WORK IS TO BE DONE IN THE BEST WORKMANLIKE MANNR.
- ALL WORK SHALL BE GUARANTEED FOR A PERIOD OF ONE (YEAR AFTER COMPLETION, EXCEPT AS OTHERWISE SPECIFIED. ALL MARRNTY REPAIRS, CORRECTIONS, DISCREPANCIES, ETC. MUST BE MADE WITHOUTANY ADDITIONAL COST TO THE OWNER, AND WITHIN FIVE (5) DAYS'AFTER NOTICE IS GIVEN.
- CONTRACTOR SHALL BE RESPONSIBLE FOR THE COMPLETE SCURITY OF THE BUILDING AND SITE WHILE JOB IS IN PROGRESS AND UNTI. JOB IS COMPLETED.
- ALL DEBRIS SHALL BE REMOVED FROM PREMISES AND ALL REAS SHALL BE KEPT IN A CLEAN (BROOM) CONDITION AT ALL TIMES.
- CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS T ENSURE THE SAFETY OF THE WORKERS, OWNER'S STAFF AND CUSTOMERSAT ALL TIMES.
- DO NOT SCALE DRAWINGS. DIMENSIONS GOVERN. CONTRACOR SHALL NOTIFY ARCHITECT IMMEDIATELY OF ANY DISCREPANCIES.
- ALL ITEMS MARKED "N.I.C." ARE NOT PART OF THIS CONTRAC'. CERTAIN ITEMS MAY BE SUPPLIED BY THE OWNER BUT INSTALLED BY IE CONTRACTOR. CAREFULLY REVIEW THE DRAWINGS AND SCHEDULES.
- ALL WORK SHALL BE CONSTRUCTED OR INSTALLED IN ACCODANCE WITH THE MANUFACTURER'S LATEST RECOMMENDATIONS OR WRITTEN DRECTIONS.
- REPAIR AND/OR REPLACE ANY AND ALL BROKEN AND DAMSED CONCRETE WORK. CONTRACTOR SHALL BE RESPONSIBLE FOR MEETINGHE REQUIREMENTS OF LOCAL GOVERNING AGENCIES.

GRADING, COMPACTION, EXCAVATION AND SITE WORK

- REMOVE ALL SUBSURFACE STRUCTURES, DEBRIS, GROWTH, VBETATION OBJECTIONABLE MATERIALS NOT SUITABLE FOR FILL. CAP AL DISCONNECTED UTILITIES IN APPROVED MANNER, PER N.E.C., AS REQUIRED A) COORDINATED WITH THE APPROPRIATE UTILITY/ AGENCY
- ALL HOLES RESULTING FROM AFOREMENTIONED DEMOLITIONAND REMOVALS SHALL BE BACKFILLED AND COMPACTED TO 95% OF MAXIMUM OPTIMU DENSITY WITH ENGINEERED FILL MATERIAL.

- THE ENTIRE SITE SHALL BE GRADED TO MEET REQUIRED FINISH GRADES. THE CONTRACTOR SHALL COORDINATE : THE WORK OF THIS CONTRACT WITH ACCOMPANYING CIVIL DRAWINGS AND SPECIFICATIONS.
- EXCAVATE FOR ALL FOOTINGS AND FOUNDATIONS AS CALLED FOR ON THE DRAWINGS. COMPACT BOTTOM OF FOUNDATIONS TO A DEPTH OF 12" BELOW THE FOOTING BOTTOM TO 95% MAXIMUM OPTIMUM DENSITY.
- ALL FOOTINGS SHALL BE ON UNDISTURBED NATURAL SOIL OR APPROVED ENGINEERED COMPACTED FILL. REFERs TO FOUNDATION PLAN AND DETAILS.

CUTTING AND PATCHING

- "CUTTING AND PATCHING" IS HERE BY DDEFINED TO INCLUDE, BUT IS NOT LIMITED TO, THE CUTTING AND PATCHING OF NORMALLY COMPLETED OR PREVIOUSLY EXISTING WORK, IN ORDERs TO ACCOMMODATE THE CONDITION OF WORK, OR THE INSTALLATION OF OTHER WORK, OR TO UNCOVER OTHER WORK FOR ACCESS OR INSPECTION, ORs TO OBTAIN SAMPLES FOR TESTING, OR FOR SIMILAR PURPOSES; CUTTING AND PATCHING IS DEFINED TO EXCLUDE INTEGRAL CUTTING AND PATCHING DURING THE MANUFACTURING, FABRICATING, ERECTING AND INSTALLING PROCESS FOR INDIVIDUAL UNITS OF WORK.
- PROVIDE MATERIALS FOR CUTTING AND PATCHING WHICH WILL RESULT IN EQUAL-OR-BETTER WORK THAN THE WORK BEING CUT AND PATCHED IN TERMS OF PERFORMANCE CHARACTERISTICS, INCLUDING VISUAL EFFECTS WHERE APPLICABLE. USE MATERIALS IDENTICAL WITH THE ORIGINAL MATERIALS WHERE FEASIBLE AND WHERE RECOGNIZED THAT SATISFACTORY RESULTS CAN BE PRODUCED THEREBY.
- INSPECT EXISTING CONDITIONS, INCLUDING ELEMENTS SUBJECT TO DAMAGE OR MOVEMENT DURING CUTTING AND PATCHING. AFTER UNCOVERING, INSPECT CONDITIONS AFFECTING PERFORMANCE OF WORK. BEGINNING OF CUTTING OR PATCHING MEANS ACCEPTANCE OF EXISTING CONDITIONS.
- PROVIDE SUPPORTS TO ASSURE STRUCTURAL INTEGRITY OF SURROUNDINGS; DEVICES AND METHODS TO PROTECT OTHER PORTIONS OF THE PROJECT FROM DAMAGE. PROVIDE PROTECTION I FROM ELEMENTS FOR AREAS WHICH MAY BE EXPOSED BY UNCOVERING WORK. MAINTAIN EXCAVATIONS FREE OF WATER.
- REFINISH SURFACES TO MATCH ADJACEENT FINISHES. FOR CONTINUOUS SURFACES, REFINISH TO NEAREST INTERSECTION; FOR AN ASSEMBLY, REFINISH ENTIRE UNIT; FOR PATCHES IN I WALLS, REFINISH WALL-TO-WALL AND FLOOR TO CEILING; FOR PATCHES s IN MASONRY WALLS, CUT OUT FACE SHELL OF BLOCK AND REPLACE.
- IT IS ENVISIONED THAT A CONSTRUCTION DUMPSTER WILL BE IN PLACE ON THE SITE AND EMPTIED AT AN APPROVED DUMP AS REQUIRED.

DEMOLITION

- IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO CAREFULLY REVIEW THE CONTRACT DOCUMENTS AND REMOVE ANY ITEMS IDENTIFIED ON THE CONTRACT DOCUMENTS OR REQUIRED T TO ACCOMPLISH THE NEW CONSTRUCTION TO THE DEPTH REQUIRED, WHERE INTERFERENCE WITH NEW UNDERGROUND CONSTRUCTION WILL OCCUR.
- PROTECTIONS: ENSURE THE SAFE PASSsAGE OF PERSONS AROUND AND IN THE AREA OF DEMOLITION, CONDUCT OPERATIONS TO PREVENT INJURY TO ADJACENT BUILDINGS, STRUCTURES, OTHER FACILITIES, AND PERSONS. CONFORM WITH ALL OF OSHA REGULATIONS.
- WEATHER PROTECTION: PROTECT BUILDING INTERIOR AND ALL MATERIALS AND EQUIPMENT FROM THE WEATHER AT ALL TIMES.
- REMOVE FROM THE SITE WEEKLY AS A MINIMUM, ALL DEBRIS, RUBBISH, AND OTHER MATERIALS RESULTING FROM DEMOLITION OPERATIONS AND DISPOSE OF IN AN APPROVED DUMP. TRANSPORT DEBRIS IN A MANNER THAT WILL PREVENT SPILLAGE ON STREETS OR ADJACENT PROPERTY.
- PROVIDE SHORING WHERE REQUIRED TO ALLOW FOR THE CUTTING OF NEW OPENINGS OR THE REPLACEMENT OR INSTALLATION OF NEW BEAMS.

CONCRETE

- ALL CONCRETE SHALL BE TRANSIT MIXED AND HAVE A MINIMUM ULTIMATE COMPRESSIVE STRENGTH OF 3,000 PSI AT 28 DAYS. MIX AND MATERIALS SHALL MEET ALL REQUIREMENTS OF LOCAL CODES, A.C.I.-I, AND INDUSTRY STANDARDS.
- REINFORCING STEEL SHALL BE INTERMEDIATE GRADE ASTM A-15 AND ASTM A-305. MINIMUM LAP SHALL BE 30 BARR DIAMETERS OR MORE IF NOTED ON THE DRAWINGS. REINFORCEMENT SHALL BE F FREE OF SCALE, RUST OR OTHER COATINGS WHICH WOULD REDUCE BOND s TO CONCRETE. MAINTAIN 3" MINIMUM COVER AROUND STEEL AT ALL BELOW s GRADE LOCATIONS.
- WELDED WIRE FABRIC SHALL BE INSTALLED IN ALL FLOOR SLABS AND SIDEWALKS AND SHALL BE 6 X 6 X W1.4 X W1.4 W.W.F. ASTM A-185. CONCRETE FLOOR SLABS SHALL BE AS INDICATED ON THE DRAWINGS.
- ALL CONCRETE FLOOR SLABS AND WALLKS SHALL BE A MINIMUM OF 4" THICK, UNLESS OTHERWISE NOTED TO BE THICKER. NOTE RECESSED AREAS FOR HARD TILE.
- MAKE PROPER PROVISIONS FOR AND INSTALL ALL SCREEDS, GROUNDS, BOLTS, CURBS, DRAINS, ETC. COORDINATE WITH ALL O'THER TRADES INVOLVED PRIOR TO PLACING CON- CRETE . SLOPE SLABS TO DRAINS ANDD/OR AS SHOWN ON THE DRAWINGS.
- PROVIDE AND INSTALL 6 MIL POLYETHYLENE MOISTURE BARRIER UNDER ALL INTERIOR SLABS. LAP AND TAPE ALL JJOINTS. USE CAUTION SO AS NOT TO PUNCTURE MOISTURE BARRIER PRIOR TO SLAB POUR.
- SAW CUT FLOOR SLAB 1/2" DEEP A MINIMUM OF 16 HOURS AFTER POURING. DIVIDE INTO AREAS NO GREATER THAN 400 SQ. FT. : OR AS SHOWN ON PLANS FOR CONTROL JOINTS.
- ALL INTERIOR FLOOR SLABS SHALL BE SMOOTH TROWELED FINISH, FREE FROM MARKS AND BLEMISHES.
- WHEN FREEZING TEMPERATURES PREVAIL,IL OR ARE ANTICIPATED, CONTRACTOR SHALL TAKE ALL PRECAUTIONARY MEASURES TO PROTECT CONCRETE INSTALLATION. PLACED CONCRETE SHALL BE KEPT AT A MINIMUM OF 60°F FOR A PERIOD OF 72 HOURS AFTER POURING.

MASONRY

- MASONRY AND VENEER UNITS SHALL BE PROPERLY WETTED TO REDUCE EXCESSIVE ABSORPTION AND SHALL BE DAMP AT TIME OF LAYING.
- MASONRY SHALL BE LAID PLUMB, LEVEL AND TRUE TO LINE WITH ALL CORNERS AND ANGLES SQUARE. PATTERN WORK, BONDS, AND SPECIAL DETAILS ARE TO BE ACCURATELY AND UNIFORMLY FOLLOWED PER THE DRAWINGS.
- CEMENT MORTAR SHALL CONSIST OF 1 PART PORTLAND CEMENT (TYPE I OR TYPE II LOW ALKALI), 1/4 PART HYDRATED LIME, SAND (3 1/2 TIMES THE SUM OF THE VOLUME OF CEMENT AND LIME)
- ALL CELLS CONTAINING REINFORCING, ANCHORS, BOLTS, ETC. SHALL BE GROUTED SOLID WITH CEMENT GROUT OR 3,000 P.S.I. PEA GRAVEL CONCRETE. INSPECTION AND APPROVAL OF REINFORCING SHALL BE MADE BY LOCAL BUILDING DEPT. PRIOR TO GROUTING.
- HORIZONTAL JOINT REINFORCEMENT SHALL BE EQUAL TO "DUR-O-WALL." SIZE AND SPACING SHALL BE AS INDICATED ON THE DRAWINGS.

STRUCTURAL STEEL, BAR JOISTS AND METAL DECKING

- ALL STRUCTURAL STEEL SHALL CONFORM TO ASTM A-36 OR A.S.C.I. BAR JOISTS SHALL CONFORM TO STEEL BAR JOIST INSTITUTE REQUIREMENTS.
- STRUCTURAL STEEL AND RELATED WORK INCLUDE THE FOLLOWING: COLUMNS, STEEL TUBES, BASE PLATES (W/ ANCHORS), BEAMS AND BEAM SEATS (W/ ANCHORS), MISCELLANEOUS ANGLES, STEEL BAR JOISTS AND BEARING PLATES (W/ ANCHORS).
- ALL STRUCTURAL STEEL SHALL BE FABRICATED AND INSTALLED IN CONFORMANCE WITH LATEST EDITION OF STANDARD SPECIFICATIONS FOR STRUCTURAL STEEL IN BUILDINGS, AS ADOPTED BY THE A.I.S.C.
- PREPARE COMPLETE AND DETAILED SHOP DRAWINGS UNDER THE SUPERVISION AND SEAL OF A FLORIDA REGISTERED STRUCTURAL ENGINEER, PRIOR TO FABRICATION OR INSTALLATION OF ANY STRUCTURAL STEEL.
- ALL STRUCTURAL WELDING SHALL BE ELECTRIC ARC, PERFORMED BY CERTIFIED WELDERS IN THE SHOP OF LICENSED FABRICATOR. FIELD WELDING SHALL BE DONE BY CERTIFIED WELDERS AND REQUIRE CONTINUOUS INSPECTION BY THE GENERAL CONTRACTOR. TOUCH UP ALL WELDS WITH PRIMER.
- ALL STRUCTURAL STEEL SHALL BE PRIME COATED IN SHOP PRIOR TO DELIVERY ON JOB.
- ALL EXTERIOR EXPOSED STEEL SHALL BE GALVANIZED.
- THE CONTRACTOR SHALL COORDINATE THE PLACEMENT OF ALL EMBED ITEMS.
- THE CONTRACTOR SHALL NOT PERMIT THE INSTALLATION OF ROOFING COMPONENTS UNTIL JOISTS ARE BRACED AND BRIDGING INSTALLED IN ACCORDANCE WITH APPROVED SHOP DRAWINGS.
- DO NOT FIELD CUT OR ALTER STRUCTURAL MEMBERS WITHOUT THE ARCHITECT'S WRITTEN APPROVAL.
- METAL DECKING SHALL BE EITHER 20 GAUGE TYPE 1.0E OR 22 GAUGE TYPE B. ALL DECKING TO BE 33 KSI STEEL, GALVANIZED.

METAL STUDS AND FRAMING

- REFER TO PLANS AND DETAILS FOR SIZE, SPACING, LOCATION AND DETAILS, TO DETERMINE WHERE METAL STUDS ARE USED ON THIS PROJECT.
- NON-LOAD BEARING TYPE INTERIOR PARTITIONS SHALL BE CONSTRUCTED OF MINIMUM 25 GAUGE GALVANIZED STEEL STUDS. ALL EXTERIOR STUDS AND RUNNERS SHALL BE MINIMUM OF 16 GAUGE. REFER TO DRAWINGS AND USE HEAVIER GAUGE STUDS WHERE CALLED FOR. PROVIDE RUNNER (CHANNELS), BRIDGING AT 8'-0" O.C. VERTICALLY, CLIPS AND REINFORCED AS INDICATED
- STUDS SHALL BE INSTALLED PER MANUFACTURER'S SPECIFICATIONS, DETAILS AND PLANS. MAXIMUM SPACING SHALL NOT EXCEED 16" O.C. SEE DOOR FRAMING DETAILS FOR SPECIFIC REQUIREMENTS AT OPENINGS.

CARPENTRY AND MILLWORK

- ALL WOOD PLATES AND BLOCKING IN CONTACT WITH CONCRETE SHALL BE PRESSURE TREATED DOUGLAS FIR OR NO. 2 FINE.
- ALL LUMBER SHALL BE GRADE MARKED PER AREA STANDARDS.
- WOOD BLOCKING SHALL BE NO. 2 PINE OR DOUGLAS FIR STANDARD GRADE.
- CARPENTRY MATERIALS SHALL BE AS LISTED BELOW:
A. PLYWOOD SHALL BE MINIMUM GRADE C-D WITH EXTERIOR GLUE, MINIMUM 5/8" THICK.
- PLASTIC LAMINATES SHALL BE AS SELECTED BY OWNER AND SHALL BE INSTALLED AS PER MANUFACTURER'S SPECIFICATIONS.
- ALL FINISH WOOD WORK SHALL BE FINISHED SMOOTHLY, SANDED WITH NAIL HOLES SET AND SHALL BE FREE FROM ALL DEFECTS. ALL JOINTS SHALL BE MITERED WITH CLOSE, TIGHT FIT.
- COORDINATE AND VERIFY ALL WORK WITH EQUIPMENT INSTALLERS. PROVIDE ALL PROPER BACKING, BLOCKING AND SUPPORTS IN STUD WALLS AS REQUIRED.
- CONTRACTOR TO PROVIDE WOOD BLOCKING AT ALL STUD WALL MOUNTED SHELIVING AND SINKS.

INSULATION

- INSULATION SHALL BE FOIL BACKED TYPE II CLASSIC BATT INSULATION INSTALLED IN COMPLETE ACCORDANCE WITH MANUFACTURER'S LATEST SPECIFICATIONS.
- SOUND INSULATION SHALL BE PROVIDED AT TOILET ROOM WALLS AND SHALL BE FULL THICK ROCKWOOL KRAFT PAPER WRAPPED.

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2 & 3 FOOD STORE NO. 29
BIRLEY & PINEMOUNT ROAD
LAKE CITY, FLORIDA

Craig Salley
3/10/10

CRAIG SALLEY, R.A.
FL REG. NO. 4475

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ROOFING

- ALL ROOFING INSTALLATIONS SHALL COMPLY WITH N.R.C.A.A.N.D S.M.A.C.N.A. STANDARDS.
- DELIVER, STORE AND HANDLE MATERIALS AND EQUIPMENT O AS TO PREVENT DAMAGE OR DETERIORATION.
- BUILT-UP ROOF SYSTEM SHALL CONSIST OF A TWO PLY, GRANULAR SURFACED, CLASS A RATED MODIFIED BITUMEN SYSTEM BY ONE OF THE FOLLOWING MANUFACTURERS: SIFLAST, SOPREMA, JOHNS MANVILLE OR AN APPROVED EQUAL.
- ROOF MEMBRANE AND SUBSTRATE SHALL RESIST 110 M.P.H.WIND UPLIFT (FM 1-90) ACCORDING TO BASIC WIND LOAD PRESURES PER A.S.C.E. 7, EXPOSURE B.
- ROOF INSULATION SHALL BE POLYISOCYANURATE, OF A TCKNESS NECESSARY TO MAINTAIN AN AGED VALUE OF R-20 AND A SLOPE OF 1/4" PER FOOT MINIMUM.
- ALL ANGLIARY ITEMS, FASTENERS, ROOFING ASPHALT, ROFING CEMENT, CANT STRIPS, ECT. AS REQUIRED FOR A WEATHERTIGHT INSTALL/ION.
- SEE DRAWINGS FOR SPECIFIC DETAILS.
- REFERENCES
A. MANUFACTURER'S RECOMMENDATIONS AND SPECIFICATINS.
B. ASTM STANDARDS AND TEST PROCEDURES AS REFEREED HEREIN.
C. SHEET METAL AND AIR CONDITIONINGS CONTRACTORS NTIONAL ASSOCIATION (SMACNA): LATEST EDITION.
D. NATIONAL ASSOCIATION OF ARCHITECTURAL METAL MAUFACTURERS (NAAMM) STANDARDS AS REFERENCED HEREIN, LATEST EDITION.
E. FLORIDA BUILDING CODE, CURRENT EDITION WITH UPDATES.
- THE ROOFING CONTRACTOR SHALL VERIFY ALL DIMENSION SHALL MAKE ANY FIELD MEASUREMENTS NECESSARY AND SHALL BE FULLY RESPONSIBLE FOR ACCURACY AND LAYOUT OF WORK.
- ROOF JACKS AND CURBS: PANEL MANUFACTURER'S PROFE; SIZES SHALL BE COORDINATED WITH APPLICABLE MECHANICAL EQUIPMENT. URNISH AND INSTALL ALL ROOF CURBS REQUIRED FOR ALL ROOF PENETRATIONS ONHIS PROJECT.
- FLASHING BOOT: STANDARD PROFILE; SIZES SHALL BE COORDINATED WITH MECHANICAL AND PLUMBING VENTS THROUGH ROOF. FURNIH AND INSTALL ALL BOOTS AT PLUMBING STACKS ON THIS PROJECT.
- ROOFING CONTRACTOR SHALL ISSUE THE OWNER A WRITTEGUARANTEE TO MAINTAIN THE ROOFING, FLASHINGS, COUNTER FLASHING IN A WATER-TIGHT CONDITION FOR A PERIOD OF TWO (2) YEARS FROMINAL COMPLETION.

SHEET METAL

- ALL SHEET METAL SHALL BE .040" THICK ALUMINUM W/ FACORY BAKED-ON KYNAR FINISH. COLOR TO BE SELECTED BY OWNER.
- ALL SHEET METAL SHALL BE IN CONFORMANCE WITH S.M.A.N.A STANDARDS, ACCURATELY FORMED TO DIMENSIONS AND SHAPES AND SHALL BE COPD TO FIT PRECISELY. ALL SEAMS SHALL BE PROPERLY RIVETED AND SEALED WH NEAT, THIN, SMOOTH JOINTS. ALL EXPOSED ENDS SHALL BE HEMMED AND CLIPED.
- ALL SHEET METAL WORK SHALL BE FORMED AND INSTALLD TO PROVIDE SUITABLE ALLOWANCE FOR EXPANSION AND CONTRACTION ALL INSTALLATIONS SHALL ENSURE WATERTIGHT CONDITIONS.
- GUTTERS AND DOWNSPOUTS SHALL BE FORMED OF METAL PECIFIED ABOVE IN ACCORDANCE WITH THE DRAWINGS AND SMACNA STANDAPRS. OUTLET TUBES AND GUTTER ENDS SHALL BE FURNISHED AND INSTALLED AS REUIRED IN ACCORDANCE WITH INDUSTRY STANDARDS.
- SECURELY ANCHOR GUTTERS WITH HANGERS OF THE SAME ATERIAL. TELESCOPE END JOINTS OF DOWNSPOUTS 1 1/2 INCHES AND LOCK LONGITUDAL JOINTS. FURNISH ALL ACCESSORIES AS REQUIRED, INCLUDING STAINLESS STEEL ASTENERS.

CAULKING

- ALL WINDOWS, DOOR FRAMES, STOREFRONT, FLASHING, CRCKS, JOINTS, ETC. SHALL BE PROPERLY PROPERLY CAULKED WITH AN APPROVED CAULKING COMPOIND, AND SUCH SHALL BE APPLIED IN STRICT ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.
- CAULKING MATERIAL SHALL BE URETHANE BASED AS MANUFACTURED BY DON-CORNING CO., 3M, OR GENERAL ELECTRIC CO.

HOLLOW METAL FRAMES AND DORS

- METAL DOOR FRAMES SHALL BE FORMED OF #16 U.S. STANDARD GAUGE STEEL FOR DOOR OPENINGS INDICATED. CORNERS SHALL E MITERED, WELDED AND GROUND SMOOTH, COLD ROLLED, ANNEALED STEEL. REINDRCE JAMBS FOR HARDWARE AND PROVIDE AS REQUIRED. TEMPORARY STL ANGLE SPREADERS SHALL BE WELDED AT BOTTOM OF DOOR FRAMES TO ENSE ALIGNMENT. FRAMES SHALL BE AS MANUFACTURED BY STEEL CRAFT, SECURITY, PIONEER OR APPROVED EQUAL.
- METAL DOORS SHALL BE OF FLUSH TYPE CONSTRUCTION WH 16 GAUGE SHEET OUTER SHELLS WITH VERTICAL STIFFENERS SPACED AT 6" ON CENR. DOOR SHALL BE REINFORCED, DRILLED AND TAPPED TO RECEIVE HARDWARE. AFTER ASSEMBLY, THOROUGHLY CLEAN. GRIND ALL WELDS AND JOINTS SMOOTH, FILL FLUSH WITH MINERAL FILLER TO CONCEAL SEAMS. APPLY TWO COATSO F MANUFACTURER'S STANDARD BAKED-ON RUST INHIBIT PRIMER. DOORS SHAL BE AS MANUFACTURED BY STEEL CRAFT, SECURITY PIONEER OR APPROVED EQUAL

WOOD DOORS

- DOORS SHALL BE 1-3/4" INCHES THICK W/ SOLID NON-RAED CORE COMPLYING IN ANI SECTION 1300, FCB EXCEPT DOORS SHALL HAVE 1-1/2" INCH MEDIUM WIDTH HARDWOOD STILES MATCHING FACE VENEER.
- VENEER TO BE "YELLOW BIRCH" NATURAL SPECIES, ROTAY SLICED. FACING QUALITY TO BE EQUAL TO ANI. PREMIUM GRADE.

- DOORS TO BE FACTORY MACHINED FOR HARDWARE. SHOULD TRIMMING BE REQUIRED, TRIM EQUALLY FROM OPPOSING SIDES.
- FACES, STILES AND PRIOR TO INSTALLATION DOORS TO BE EXPOSED INTERMEDIATE RAILS, REINFORCING OR STILES SHALL ALSO CONSTITUTE A FAILURE TO PERFORM UNDER THIS GUARANTEE.
- DELIVER DOORS TO PROJECT SITE / AFTER MOISTURE PRODUCING OPERATIONS ARE COMPLETE.
- PROVIDE WRITTEN GUARANTEE FROM DOOR MANUFACTURER STATING THAT DOORS WILL NOT DELAMINATE OR SHOW WARPAGE OF MORE THAN 1/4" FROM A TRUE PLANE FOR ONE YEAR FROM THE DATE OF ACCEPTANCE BY OWNER. TELEGRAPHING OF TOP AND BOTTOM RAILS, INTERMEDIATE RAILS, REINFORCING OR STILES SHALL ALSO CONSTITUTE A FAILURE TO PERFORM UNDER THIS GUARANTEE.

STOREFRONT GLASS AND GLAZING

- REFER TO PLANS, AND DETAILS FOR SIZE, AND TYPE.
- MATERIALS: ALL GLASS AND GLAZING SHALL BE IN ACCORDANCE WITH THE STANDARDS AND RECOMMENDATIONS OF THE CURRENT EDITION OF THE GLAZING MANUAL OF THE FLAT GLASS JOBBERS ASSOCIATION.
A. EACH PIECE OF GLASS SHALL BE LABELED, NOTING THE NAME OF THE MANUFACTURER, GRADE, QUALITY AND TYPE. LABELS SHALL BE INTACT BEFORE AND AFTER INSTALLATION.
- EXTERIOR GLASS SHALL BE 1" INSULATED, CLEAR, FULLY TEMPERED WITH 1/4" SHEETS
- MIRRORS SHALL BE "A" QUALITY 1/4" THICK POLISHED PLATE WITH FULL STAINLESS OR ALUMINUM FRAME AND CONCEALED FASTENERS.
- ALL ALUMINUM STOREFRONT FRAMING AND DETAILS INDICATED ON THE DRAWINGS AND/OR DETAILS, SHALL BE EQUAL TO VISTAWALL SERIES 3000. THE FRAMING SHALL BE ACCURATELY ASSEMBLED WITH UNEXPOSED FASTENERS UTILIZING EXTRUDED SPLINES, CLIPS AND/OR SNAP-IN FEATURES. ALL GLAZING SHALL BE HELD IN PLACE BY E.P.D.M. GLAZING GASKETS. NO APPLIED STOPS SHALL BE PERMITTED. ALL EXPOSED SURFACES SHALL BE FREE OF UNSIGHTLY SCRATCHES AND BLEMISHES. THE FINISH SHALL BE AS SELECTED BY OWNER. OTHER APPROVED MANUFACTURES ARE KAMNEER COMPANY AND EFCO.
- FINISH OF ALL SILL FLASHING SHALL BE .040 ALUMINUM TO MATCH STOREFRONT MATERIAL.
- DOOR FRAMES FOR ENTRANCE DOORS SHALL BE ALUMINUM STOREFRONT FRAME WITH CUT OUTS AND BACKING PLATES FOR (3) BUTT HINGES FOR EACH DOOR LEAF. LOCATION OF HINGES TO BE COORDINATED BY GENERAL CONTRACTOR WITH STOREFRONT SUBCONTRACTOR.
- ALL DOOR AND FRAMING SECTIONS SHALL BE EXTRUDED ALUMINUM ALLOY AND TEMPERED TO MEET OR EXCEED FINISHING AND STRUCTURAL CRITERIA. DOOR STILES AND RAILS, EXCLUDING GLASS STOPS, SHALL BE TUBULAR AND HAVE 0.125" WALL THICKNESS. ALL WEATHER STRIPPING SHALL BE HARDBACKED SILICONE TREATED POLYPROPYLENE. ANY EXPOSED FASTENERS SHALL BE ALUMINUM, STAINLESS STEEL OR OTHER NON-CORROSIVE MATERIAL.
- ALL EXPOSED SURFACES SHALL BE FREE OF UNSIGHTLY SCRATCHES AND BLEMISHES. THE FINISH SHALL BE ANNOIDIZED OR KYNAR, PER OWNER'S SELECTION IN CONFORMANCE WITH ARCHITECTURAL PRODUCTS STANDARD.
- DOOR STILES AND RAILS SHALL BE ACCURATELY JOINED AT CORNERS WITH CONCEALED REINFORCEMENT BRACKETS SECURED WITH BOLTS AND SCREWS, AND SHALL BE "MIG" WELDED. DOORS SHALL HAVE SNAP-IN STOPS WITH BULB GLAZING VINYL ON BOTH SIDES OF GLASS. NO EXPOSED SCREWS SHALL BE PERMITTED. EACH DOOR LEAF SHALL BE EQUIPPED WITH AN ADJUSTING MECHANISM LOCATED IN THE TOP RAIL NEAR THE LOCK STILE WHICH PROVIDES FOR MINOR CLEARANCE ADJUSTMENTS AFTER INSTALLATION. WEATHER STRIPPING SHALL BE INSTALLED IN THE HINGE STILE OF PAIRS OF DOORS. DOOR FRAME AND SIDE-LIGHT FRAMING SHALL BE ACCURATELY JOINED AT CORNERS WITH CONCEALED SCREWS.
- DESIGN CRITERIA FOR WIND LOADS SHALL BE IN ACCORDANCE WITH ASCE-7 DESIGN WIND VELOCITY OF 110 M.P.H., BUILDING IMPORTANCE FACTOR OF 1.15
- ALL HARDWARE FOR ENTRANCE DOORS, WITH THE EXCEPTION OF THE CYLINDERS, SHALL BE FURNISHED AND INSTALLED BY ALUMINUM STOREFRONT CONTRACTOR AS SELECTED BY OWNER.
- ALL ITEMS SHALL BE SET IN THEIR CORRECT LOCATIONS AS SHOWN ON THE DRAWINGS AND SHALL BE LEVEL, SQUARE, PLUMB, AND AT PROPER ELEVATION AND IN ALIGNMENT WITH OTHER WORK. THIS CONTRACTOR SHALL DO ALL CAULKING AND SEALING ASSOCIATED WITH HIS WORK.
- SEAL ALL JOINTS. FRAMING MEMBERS SHALL BE SCREWED IN PLACE USING BACKING, ANCHOR PLUGS, OR STRAPS AS REQUIRED. WHERE MOLDINGS ARE JOINED, THEY SHALL BE ACCURATELY CUT AND FITTED TO RESULT IN A TIGHTLY CLOSED HAIR-LINE JOINT. NO UNFINISHED MATERIAL SHALL BE VISIBLE.
- DOORS SHALL OPERATE FREELY AND SHALL NOT RATTLE WHEN CLOSED. SWING TYPE DOORS SHALL HAVE HEAD AND JAMB CLEARANCE OF 3/32" PLUS OR MINUS 1/32".
- AFTER ERECTION, THE CONTRACTOR SHALL PROTECT EXPOSED PORTIONS FROM DAMAGE BY MACHINES, PLASTER, LIMCE, PAINT, ACID, CEMENT, OR OTHER HARMFUL COMPOUNDS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVAL OF PROTECTIVE MATERIALS AND CLEANING PER STOREFRONT FRAMING MANUFACTURER'S PRINTED INSTRUCTIONS.

FINISH HARDWARE

- ALL HARDWARE SHALL BE GUARANTEED FOR A PERIOD OF TWO (2) YEARS AFTER INSTALLATION, CONTRACTOR SHALL PROVIDE WRITTEN GUARANTEE TO OWNER.
- ALL LOCKS SHALL BE CONSTRUCTION KEYED. ALL PERMANENT KEYS AND CONSTRUCTION KEYS SHALL BE GIVEN TO OWNER ONLY. KEYING SHALL BE AS PER DIRECTION OF OWNER.

VENEER PLASTER AND EPS (EXTERIOR FINISH SYSTEM)

- ALL INTERIOR WALLS, PARTITIONS, CEILINGS AND OTHER INTERIOR SURFACES AS CALLED FOR SHALL BE COVERED WITH 5/8" GWS AS MANUFACTURED BY U.S.G. CO. GWS SHALL BE INSTALLED IN STRICT ACCORDANCE WITH MANUFACTURERS LATEST SPECIFICATIONS INCLUDING ALL METAL GROUNDS, BEADS, FURRING, ECT.
- ALL SURFACES WHICH ARE TO REMAIN EXPOSED SHALL BE FINISH TAPED AND SANDED SMOOTH.
- USE WATER RESISTANT (GREENBOARD) GWS AT ALL AREAS EXPOSED TO MOISTURE AND FOR ALL WALLS RECEIVING CERAMIC TILE, SUCH AS SERVICE, STORAGE ROOMS, TOILET ROOMS, MECHANICAL ROOMS, ECT.
- VENEER PLASTER TO CONFORM TO A.S.T.M. C587 MIX AND APPLICATION PER MANUFACTURERS RECOMMENDATIONS.
- EPS SYSTEM SHALL BE COMPOSED OF 5/8" DENSEGLASS AS MANUFACTURED BY GEORGIA PACIFIC AND COVERED WITH AN ELASTOMERIC ACRYLIC FINISH IN ALL RESPECTS EQUAL TO THOSE COMPONENTS MANUFACTURED BY DRYVIT. THE THE SUBSTRATE FOR CORNICE SHALL BE EXPANDED POLYSTYRENE, ADHESIVE APPLIED.

CERAMIC TILE & TILE PAVERS

- TILE TO BE STANDARD GRADE COMPLYING WITH THE CURRENT REQUIREMENTS OF THE TILE COUNCIL OF AMERICA (TCA) AND INSTALLED PER TCA AND THE TILE MANUFACTURER RECOMMENDATIONS.
- FINISH, COLOR, SIZE AND PATTERN OF TILE TO BE SELECTED BY THE OWNER. PROVIDE ALL REQUIRED TRIM PIECES FROM SAME MANUFACTURERS AS TILE.
- PROVIDE GRADE A MARBLE THRESHOLDS AND OTHER TILE ACCESSORIES AT LOCATIONS AND SIZES INDICATED.
- GROUT AND SETTING BED COMPONENTS SHALL BE AS RECOMMENDED BY TILE MANUFACTURER. THRESHOLDS SHALL BE SET IN EPOXY GROUT.

SUSPENDED CEILING SYSTEMS

- METAL SUSPENSION SYSTEM SHALL BE AS MANUFACTURED BY ARMSTRONG, UNITED STATES GYPSUM, CHICAGO METALLIC OR, AN APPROVED EQUAL.
- PROVIDE ALL REQUIRED BRACING AND BACKING FOR ARCHITECTURAL TREATMENT INDICATED ON THE PLANS.
- 2 X 2 LAY-IN ACOUSTICAL TILE SYSTEM SHALL BE ARMSTRONG, U.S. GYPSUM, OR EQUAL. PROVIDE MOISTURE RESISTANT PANELS (TYPE 2) IN KITCHEN AND OTHER AREAS AS DIRECTED BY OWNER.
- SUBMIT SAMPLES FOR OWNER'S APPROVAL.
- CONTRACTOR SHALL PROVIDE OWNER WITH ONE (1) EXTRA BOX OF EACH TYPE TILE USED ON THE PROJECT.

PAINTING

- ALL PAINT MATERIAL SHALL BE OF FIRST QUALITY, EQUAL TO SHERWIN-WILLIAMS.
- ALL HOLES, CRACKS, ETC. SHALL BE FILLED AND SANDED SMOOTH.
- HOLIDAYS, BRUSH MARKS AND PAINT SPOTTING IS NOT ACCEPTABLE AND SHALL BE CORRECTED.
- SURFACE PREPARATION AND APPLICATION OF PAINT AND STAIN MATERIALS SHALL BE DONE IN STRICT COMPLIANCE WITH MANUFACTURER'S SPECIFICATIONS.
- ALL WOOD SURFACES TO BE NATURAL FINISH SHALL BE SEALED OR STAINED AND SEALED. USE FILLERS AS REQUIRED. USE APPROVED STAIN, SEALER AND FILLER APPLIED IN STRICT COMPLIANCE WITH LATEST MANUFACTURERS SPECIFICATIONS. USE MINWAX OR OLYMPIC STAIN SEALER AND FILLER, OR EQUAL.
- ALL EXTERIOR HOLLOW METAL DOORS AND FRAMES SHALL RECEIVE TWO COATS OF PAINT OVER SHOP APPLIED PRIME COAT, UNLESS OTHERWISE NOTED. PAINT COLOR SHALL BE SELECTED BY OWNER.

TOILET ROOM ACCESSORIES

- PROVIDE AND INSTALL ALL TOILET ROOM ACCESSORIES, GRAB BARS, T.P. HOLDERS, MIRRORS, ETC. AS CALLED FOR ON DRAWINGS. MOUNTING HEIGHTS SHALL BE IN CONFORMANCE WITH HANDICAPPED CODE REQUIREMENTS IN THE LATEST EDITION OF THE FLORIDA BUILDING CODE.



Craig Salley
3/10/10

CRAIG SALLEY, P.A.
FL. REG. NO. 4475

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GENERAL MECHANICAL REQUIREMENTS

1. CONTRACTOR SHALL COMPLY WITH LATEST EDITION OF A.H.R.A.E., S.M.A.C.N.A. AND ALL APPLICABLE NATIONAL, STATE AND LOCAL CODES.
2. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITINS PRIOR TO SUBMITTING BID. BY SUBMITTING BID, CONTRACTOR STATES THAT HE HAS EXAMINED ALL EXISTING CONDITIONS. IF CONTRACTOR ENCOUNTERS EXISTING CONDITIONS WHICH NEED CLARIFICATION, CONTACT OWNER'S REPRESENTATIVE FOR RESOLUTION OR CLARIFICATION.
3. PERMITS AND FEES: CONTRACTOR SHALL OBTAIN ALL FEMITS AND PAY ALL FEES AND CHARGES REQUIRED FOR THE CONSTRUCTIN AND UTILITIES CONNECTIONS.
4. ALL WORK PERFORMED UNDER THIS CONTRACT SHALL HAS ONE (1) YEAR WRITTEN GUARANTEE FOR ALL MATERIALS AND WORKMANHIP. ALL COMPRESSORS SHALL HAVE FIVE (5) YEAR FACTORY WARRANTY.
5. ALL MATERIALS SHALL BE NEW AND OF FIRST CLASS QUATY. NO "USED" MATERIALS WILL BE PERMITTED TO BE INSTALLED ON THIS PROJECT.
6. AT COMPLETION OF PROJECT, CONTRACTOR SHALL DELIVR TO OWNER ALL DOCUMENTS (INCLUDING BUILDING PERMITS, OPERATION AN MAINTENANCE MANUALS AND ALL OTHER FINAL CLOSE OUT DOCUMENTS).
7. ALL DUCTWORK SHALL BE FABRICATED AND INSTALLED IACCORDANCE WITH THE LATEST S.M.A.C.N.A. MANUALS.
8. ALL DUCT SIZES INDICATED ARE "FREE AREA" INSIDE DIMISION REQUIREMENTS.
9. ALL SUPPLY AND RETURN DUCTWORK SHALL BE 1" THICK PERBOARD WITH "HARDCAST" JOINTS.
10. ALL EXHAUST DUCTWORK SHALL BE SHEET METAL UNLESS THERWISE INDICATED OR NOTED ON PLANS.
11. ALL FLEXIBLE DUCT RUN OUTS TO DIFFUSERS SHALL BE CASS I PRE-INSULATED FLEXIBLE DUCT. THE MAXIMUM LENGTH OF FLEBBLE DUCT SHALL BE 8'-0". WHERE RUN OUT EXCEEDS THIS DISTANCE, USE RUND RIGID SHEET METAL WITH 1" THICK EXTERNAL FIBERGLASS INSULATION.
12. ALL OUTSIDE AIR SUPPLY DUCTWORK SHALL BE SHEET MEAL.
13. PIPING MATERIALS: REFRIGERANT PIPING SHALL BE TYPE K COPPER SIZED AND INSTALLED IN ACCORDANCE WITH EQUIPMENT MANUFACTURER'S RECOMMENDATIONS. PROVIDE SIGHT GLASS AND FILTER RIWER ON EACH SYSTEM. CONDENSATE DRAIN PIPING SHALL BE SCHEDULE 40 STEEL. SCHEDULE 40 FVC MAY BE USED IF APPROVED BY LOCAL CODES. RUN TO APPROVED WASTE OR DRYWELL AS REQUIRED BY GOVERNING AUTHORITY.
14. INSULATION: ALL REFRIGERANT PIPING SHALL BE INSULAD WITH 3/4" THICK CLOSED CELL ELASTOMERIC INSULATION. ALL KITCHEN HOOD MAKEUP DUCTWORK SHALL BE INSULATED WITH 1" THICK ETERNAL FIBERGLASS INSULATION WRAP. CONDENSATE DRAIN PIPIS SHALL BE INSULATED WITH 3/4" THICK CLOSED CELL ELASTOMETRIC INSULATION.
15. AIR CONDITIONING EQUIPMENT SHALL BE AS SCHEDULED C THE DRAWINGS. SYSTEMS SHALL BE COMPLETE WITH FILTERS, MOTOR STATERS, MOTOR DISCONNECTS, AND ROOF CURBS (WHERE UNITS ARE ROOFTOUNDED) AND ALL OTHER ACCESSORIES, RELAYS, AND OTHER ITEMS OFQUIPMENT REQUIRED FOR A COMPLETE, OPERATING SYSTEM.
16. FANS SHALL BE AS SCHEDULED ON THE DRAWINGS. FANSHALL BE COMPLETE WITH BACKDRAFT DAMPERS, BIRD SCREEN, MOOR STARTERS, MOTOR DISCONNECTS, AND ROOF CURBS (WHERE FANS AR ROOF MOUNTED).
17. CONTROLS: EACH A/C SYSTEM SHALL BE CONTROLLED E A THERMOSTAT WITH "HEAT-OFF-COOL" SWITCH AND FAN "ON-AUTO" SWITD. EACH SYSTEM HANDLING 2,000 CFM AND GREATER SHALL HAVE FIRESITTS INSTALLED IN THE SUPPLY AND RETURN AIR DUCTWORK.
18. AIR DEVICES SHALL BE AS SCHEDULED ON THE DRAWINGS. DEVICES SHALL BE COMPLETE WITH ALL MOUNTING HARDWARE REQUIRED OR A COMPLETE INSTALLATION. ALL SIDEWALL SUPPLY REGISTERS SHALLAVE DOUBLE DEFLECTION LOUVERS WITH FRONT SET VERTICALLY MOUNED. DEVICES SHALL BE FIELD PAINTED IF INDICATED ON ARCHITECTURE. DRAWINGS. (COLOR TO BE SELECTED BY OWNER.)
19. COORDINATE EXACT LOCATION OF ALL AIR DEVICES IN CLINS WITH LIGHTING FIXTURES. REFER TO ARCHITECTURAL REFLECTD CEILING PLANS FOR LOCATIONS IN CEILINGS. COORDINATE EXACT LOCACON OF ALL WALL MOUNTED AIR DEVICES WITH ARCHITECTURAL INTERIOR ELVATIONS AND STRUCTURAL COMPONENTS.
20. DAMPERS SHALL BE PROVIDED AT ALL BRANCH TAKE-OFS FROM MAIN DUCTWORK AND AT EACH AIR DEVICE FOR SYSTEM BALACING. DAMPERS AT DEVICES SHALL BE OF THE OPPOSED BLADE TYPE.
21. CONTRACTOR SHALL TEST AND BALANCE THE SYSTEMS UDN COMPLETION OF WORK. ANY DEFECTS OR DEFICIENCIES DISCOVERED AS RESULT OF TESTS SHALL BE IMMEDIATELY CORRECTED OR REPAIRED ANDESTS SHALL BE REPEATED UNTIL THE TEST REQUIREMENTS ARE FULLY COMPLIED WITH. SUBMIT TEST AND BALANCE REPORT TO OWNER AT COMPLETION F TESTING.
22. CONTRACTOR SHALL FURNISH SUBMITTAL DATA TO OWNERFOR APPROVAL ON ALL A/C EQUIPMENT, FANS, AIR DEVICES, ETC. PRIOR T ORDERING ANY ITEMS. CONTRACTOR MAY OFFER SUBSTITUTIONS ONITEMS FOR APPROVAL BY OWNER. SUBSTITUTIONS MUST BE EQUAL INLL RESPECTS TO ITEMS SCHEDULED OR SPECIFIED.
23. CONTRACTOR SHALL PROVIDE ALL MATERIAL AND LABOIREQUIRED TO MAKE ALL FINAL CONNECTIONS TO OWNER/FOOD SERVICE EQUIPMENT. REFER TO FOOD SERVICE DRAWINGS FOR ADDITIONAL NOTES AND ISTALLATION DETAILS FOR FOOD SERVICE EQUIPMENT (INCLUDING ALL DUGH-IN LOCATIONS).

GENERAL PLUMBING REQUIREMENTS

1. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO SUBMITTING BID. BY SUBMITTING BID, CONTRACTOR STATES THAT HE HAS EXAMINED ALL EXISTING CONDITIONS. IF CONTRACTOR ENCOUNTERS EXISTING CONDITIONS WHICH NEED CLARIFICATION, CONTACT OWNER'S REPRESENTATIVE FOR RESOLUTION OR CLARIFICATION.
2. CONTRACTOR SHALL OBTAIN ALL PERMITS AND PAY ALL FEES AND CHARGES REQUIRED, INCLUDING UTILITY CONNECTION CHARGES APPLICABLE TO HIS WORK.
3. ALL WORK PERFORMED UNDER THIS CONTRACT SHALL HAVE ONE (1) YEAR WRITTEN GUARANTEE FOR ALL MATERIALS AND WORKMANSHIP.
4. ALL MATERIALS SHALL BE OF FIFIRST CLASS QUALITY. NO "USED" MATERIALS WILL BE PERMITTED TO BE INSTALLED ON THIS PROJECT, UNLESS SPECIFICALLY NOTED ON THE DRAWINGS.
5. AT COMPLETION OF PROJECT, CONTRACTOR SHALL DELIVER TO OWNER ALL DOCUMENTS (INCLUDING BUILDING PERMITS, OPERATION AND MAINTENANCE MANUALS, ETC.)
6. ALL WASTE AND VENT PIPING SHALL BE SCHEDULE 40 FVC WITH SOLVENT WELD JOINTS. EXPOSED WASTE F PIPING SHALL BE CHROME PLATED BRASS. ALL PENETRATIONS THROUGH WALLS SHALL HAVE CHROME PLATED ESCUTCHEON PLATES.
7. ALL INTERIOR ABOVE GRADE WATER PIPING SHALL BE SCHEDULE 40 GALVANIZED STEEL WITH SCREWED JOINTS OR TYPE L COPPER WITH SWEATED JOINTS. WATER PIPING BELOW SLAB SHALL BE TYPE K SOFT COPPER WITH NO JOINTS BELOW SLAB. WRAP ALL PIPING PENETRATIONS OF SLAB WITH TWO (2) LAYERS OF 30 LB. ROOFING FELT OR PLASTIC SLEEVES MADE SPECIFICALLY FOR THIS PURPOSE.
8. EXTERIOR WATER PIPING SHALL E BE SCHEDULE 40 FVC WITH SOLVENT WELD JOINTS, UNLESS OTHERWISE NOTED ON THE CIVIL DRAWINGS. PROVIDE THRUST BLOCKING AT ALL ELBOWS AND OFFSETS IN PIPING SYSTEM. REFER TO CIVIL DRAWINGS FOR ADDITIONAL INFORMATION.
9. ALL ABOVE GRADE GAS PIPING SHALL BE SCHEDULE 40 BLACK STEEL WITH SCREWED JOINTS. PIPING EXPOSED TO WEATHER SHALL BE PROTECTED FROM ELEMENTS PER LOCAL CODES (I.E. PAINTING, ETC.) ALL PIPING IN RETURN AIR FLENUMS SHALL BE S SLEEVED AND VENTED TO ATMOSPHERE PER LOCAL CODES. UNDERGROUND GAS PIPING SHALL BE POLYETHYLENE PIPE WITH HEAT FUSION JOINTS AND COPPER TRACER WIRE OF PIPING.
10. CONTRACTOR SHALL COORDINATE SERVICES TO BUILDING WITH LOCAL UTILITY COMPANIES. CHARACTERISTICS AND SIZE OF SERVICE SHALL BE AS INDICATED ON THE DRAWINGS. REFER TO CIVIL DRAWINGS FOR SPECIFIC INFORMATION.
11. PIPING INSULATION: ALL HOT WATER PIPING SHALL BE INSULATED WITH 3/4" THICK CLOSED CELL ELASTOMERIC INSULATION. ALL COLD WATER PIPING EXPOSED TO AMBIENT TEMPERATURES (INCLUDING ATTICS AND EXTERIOR WALLS) SHALL BE INSULATED WITH 3/4" THICK CLOSED CELL ELASTOMERIC INSULATION. HORIZONTAL STORM PIPING SHALL BE INSULATED WITH 1" THICK FIBERGLASS INSULATION WITH VAPOR BARRIERS. WASTE PIPING FOR LAVATORIES SHALL HAVE 3/4" THICK ELASTOMERIC INSULATION.
12. PLUMBING FIXTURES SHALL BE AS SCHEDULED ON THE DRAWINGS. FIXTURES SHALL BE FURNISHED COMPLETE WITH SHUT-OFF VALVES, TRAPS, FAUCETS, AND ALL OTHER REQUIRED TRIM. ALL FIXTURES SHALL COMPLY WITH LOCAL WATER CONSERVATION RULES AND REGULATIONS.
13. WATER HEATERS SHALL BE AS SCHEDULED ON THE DRAWINGS. HEATERS SHALL HAVE FIVE (5) YEAR FACTORY WARRANTY (MINIMUM) ON TANK.
14. WATER SYSTEM SHALL BE PROVIDED WITH VALVES ON COLD WATER AND HOT WATER CONNECTIONS AT EACH FIXTURE, AT PLACES INDICATED ON THE DRAWINGS AND AS REQUIRED BY FIELD CONDITIONS FOR SERVICING SYSTEM.
15. GAS SYSTEM SHALL BE PROVIDED WITH AN APPROVED SHUT-OFF VALVE AT EACH GAS APPLIANCE. PROVIDE AND INSTALL SOLENOID VALVES ON LINES AT LOCATIONS INDICATED ON PLANS OR REQUIRED BY CODE. IN ADDITION PROVIDE PRESSURE REDUCING VALVES AT EACH GAS APPLIANCE WHERE SYSTEM PRESSURE EXCEEDS 4 OUNCES. VENT PRESSURE REDUCING VALVES TO ATMOSPHERE.
16. EACH PLUMBING FIXTURE SHALL E BE PROVIDED WITH 12" LONG AIR CHAMBERS ON BOTH THE COLD WATER AND HOT WATER CONNECTIONS TO FIXTURE.
17. ALL INDIRECT WASTE PIPING SHALL BE TYPE M COPPER WITH SWEATED JOINTS. COPPER PIPING SHALL BE ISOLATED FROM STAINLESS STEEL FIXTURES OR CASEWORK WITH TWO (2) LAYERS OF INSULATING TAPE.
18. CONTRACTOR SHALL FURNISH SUBMITTAL DATA TO OWNER FOR APPROVAL ON ALL FIXTURES, EQUIPMENT, WATER HEATERS, ETC. PRIOR TO ORDERING ANY ITEMS. CONTRACTOR MAY OFFER SUBSTITUTIONS ON ITEMS FOR APPROVAL BY OWNER. SUBSTITUTIONS MUST BE EQUAL IN ALL RESPECTS TO ITEMS SCHEDULED OR SPECIFIED.
19. REFER TO ARCHITECTURAL DRAWINGS FOR EXACT MOUNTING HEIGHTS OF ALL FIXTURES. HEIGHTS SHALL COMPLY WITH A.D.A. CODE REQUIREMENTS.

GENERAL ELECTRICAL REQUIREMENTS

1. CONTRACTOR SHALL COMPLY WITH ALL NATIONAL, STATE AND LOCAL CODES. ALL WORK SHALL BE IN CONFORMANCE WITH N.E.C.
2. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO SUBMITTING BID. BY SUBMITTING BID, CONTRACTOR STATES THAT HE HAS EXAMINED ALL EXISTING CONDITIONS. IF CONTRACTOR ENCOUNTERS EXISTING CONDITIONS WHICH NEED CLARIFICATION, CONTACT OWNER'S REPRESENTATIVE FOR RESOLUTION OR CLARIFICATION.
3. CONTRACTOR SHALL OBTAIN ALL PERMITS AND PAY ALL FEES AND CHARGES REQUIRED, INCLUDING UTILITY COMPANY CHARGES APPLICABLE TO HIS WORK.
4. ALL WORK PERFORMED UNDER THIS CONTRACT SHALL HAVE ONE (1) YEAR WRITTEN GUARANTEE FOR ALL MATERIALS AND WORKMANSHIP.
5. ALL MATERIALS SHALL BE OF FIRST CLASS QUALITY, EQUAL TO SQUARE "D", FEDERAL PACIFIC, OR CUTLER-HAMMER. NO "USED" MATERIALS WILL BE PERMITTED TO BE INSTALLED ON THIS PROJECT, UNLESS SPECIFICALLY NOTED ON THE DRAWINGS.
6. AT COMPLETION OF PROJECT, CONTRACTOR SHALL DELIVER TO OWNER ALL DOCUMENTS (INCLUDING BUILDING PERMITS, OPERATION AND MAINTENANCE MANUALS, ETC.).
7. ALL INTERIOR CONDUIT SHALL BE EMT. ALL EXTERIOR AND UNDERGROUND CONDUIT SHALL BE RIGID GALVANIZED STEEL. MINIMUM SIZE OF CONDUIT SHALL BE 3/4". ALL CONDUIT SHALL BE ROUTED PERPENDICULAR TO BUILDING LINES WHERE EXPOSED TO VIEW.
8. ALL WIRE SHALL BE THIN COPPER UNLESS OTHERWISE INDICATED ON THE DRAWINGS. MINIMUM SIZE OF WIRE SHALL BE NO. 12. ALL WIRING SHALL BE SIZED AND INSTALLED SO THAT MAXIMUM VOLTAGE DROP TO FARTHEST CONNECTION IN CIRCUIT SHALL NOT EXCEED 3%.
9. ALL DISCONNECT SWITCHES SHALL BE GENERAL DUTY. EQUAL TO SQUARE "D", FEDERAL PACIFIC, OR CUTLER-HAMMER, WITH NEMA CONFIGURATION AS INDICATED ON DRAWINGS OR AS REQUIRED BY CODE.
10. ALL SWITCHES SHALL BE SPECIFICATION GRADE. COLOR OF ALL SWITCHES AND COVER PLATES SHALL BE IVORY. MOUNTING HEIGHT OF ALL SWITCHES SHALL COMPLY WITH A.D.A. CODE REQUIREMENTS.
11. ALL RECEPTACLES SHALL BE SPECIFICATION GRADE. COLOR OF ALL SWITCHES AND COVER PLATES SHALL BE IVORY. MOUNTING HEIGHT OF RECEPTACLES SHALL COMPLY WITH A.D.A. CODE REQUIREMENTS UNLESS SPECIFIC OR SPECIAL MOUNTING HEIGHT IS SHOWN ON DRAWINGS OR REQUIRED BY EQUIPMENT.
12. ALL TELEPHONE AND COMPUTER OUTLETS SHOWN ON DRAWING SHALL HAVE EMPTY 3/4" CONDUIT ROUTED FROM BOX TO ABOVE ACCESSIBLE CEILING OR TO TELEPHONE TERMINAL BOARD IF CEILING ABOVE ACCESSIBLE IS NOT ACCESSIBLE. PROVIDE FULL STRING IN CONDUIT FOR INSTALLATION OF CABLES. CABLES WILL BE INSTALLED UNDER SEPARATE CONTRACT. MOUNTING HEIGHT OF DEVICES SHALL COMPLY WITH A.D.A. CODE REQUIREMENTS.
13. CONTRACTOR SHALL MARK PROPOSED LOCATION OF ALL SWITCHES, RECEPTACLES, TELEPHONE OUTLETS, ETC. ON WALLS FOR OWNER'S APPROVAL PRIOR TO ROUGH-IN OR INSTALLATION OF ANY BOXES AND CONDUIT. ALL DEVICES MAY BE RELOCATED A MAXIMUM OF 6'-0" PRIOR TO INSTALLATION AT NO ADDITIONAL COST TO OWNER.
14. TRANSFORMERS SHALL BE DRY-TYPE OF SIZE AND VOLTAGE REQUIREMENTS AS INDICATED ON THE DRAWINGS. TRANSFORMERS SHALL BE GROUNDED AS PER THE N.E.C.
15. ENTIRE ELECTRICAL SYSTEM SHALL BE GROUNDED IN ACCORDANCE WITH N.E.C. ARTICLE 250. GROUNDING TO PLUMBING SYSTEM SPECIFICALLY PROHIBITED.
16. CONTRACTOR SHALL COORDINATE ELECTRICAL SERVICE TO BUILDING WITH LOCAL POWER COMPANY. CHARACTERISTICS AND SIZE OF SERVICE SHALL BE AS INDICATED ON THE DRAWINGS. REFER TO CIVIL DRAWINGS FOR MORE SPECIFIC INFORMATION, AS TO LOCATION OF POWER POLES, ETC.
17. ELECTRICAL EQUIPMENT SHALL BE RATED FOR SERVICE ENTRANCE. ALL BUSSING SHALL BE COPPER WITH FULL LENGTH GROUND BUS. OVER CURRENT DEVICES SHALL BE FUSIBLE SWITCH (FS) OR CIRCUIT BREAKER (CB) AS INDICATED ON EQUIPMENT SCHEDULE. INTERRUPTING CURRENT OF EQUIPMENT AND DEVICES SHALL BE AS NOTED ON EQUIPMENT SCHEDULE OR AS REQUIRED BY LOCAL POWER COMPANY.
18. ALL PANELBOARDS SHALL HAVE BOLT-ON BREAKERS. PANELBOARDS SHALL HAVE COPPER BUSING WITH AMPERE RATINGS, MAIN BREAKER (MCB) OR MAIN LUGS ONLY (MLO), AND MOUNTING AS SHOWN ON PANEL SCHEDULES. PANELS SHALL BE EQUAL TO SQUARE "D", FEDERAL PACIFIC, OR CUTLER-HAMMER.
19. LIGHT FIXTURES SHALL BE LITHONIA OR EQUAL. FIXTURES SHALL BE COMPLETE WITH ALL LAMPS. CONTRACTOR SHALL PROVIDE OWNER WITH ONE SET OF SPARE LAMP(S) FOR EACH TYPE FIXTURE USED ON THE PROJECT.
20. REFER TO ARCHITECTURAL REFLECTED CEILING PLAN FOR EXACT LOCATION OF ALL LIGHTING FIXTURES IN CEILING. REFER TO ARCHITECTURAL INTERIOR AND EXTERIOR ELEVATIONS FOR MOUNTING HEIGHTS OF ALL WALL MOUNTED FIXTURES. ARCHITECTURAL LOCATIONS GOVERN.
21. CONTRACTOR SHALL FURNISH SUBMITTAL DATA TO OWNER FOR APPROVAL ON ALL FIXTURES AND EQUIPMENT. PRIOR TO ORDERING ANY ITEMS. CONTRACTOR MAY OFFER SUBSTITUTIONS ON ITEMS FOR APPROVAL BY OWNER. SUBSTITUTIONS MUST BE EQUAL IN ALL RESPECTS TO ITEMS SCHEDULED OR SPECIFIED.

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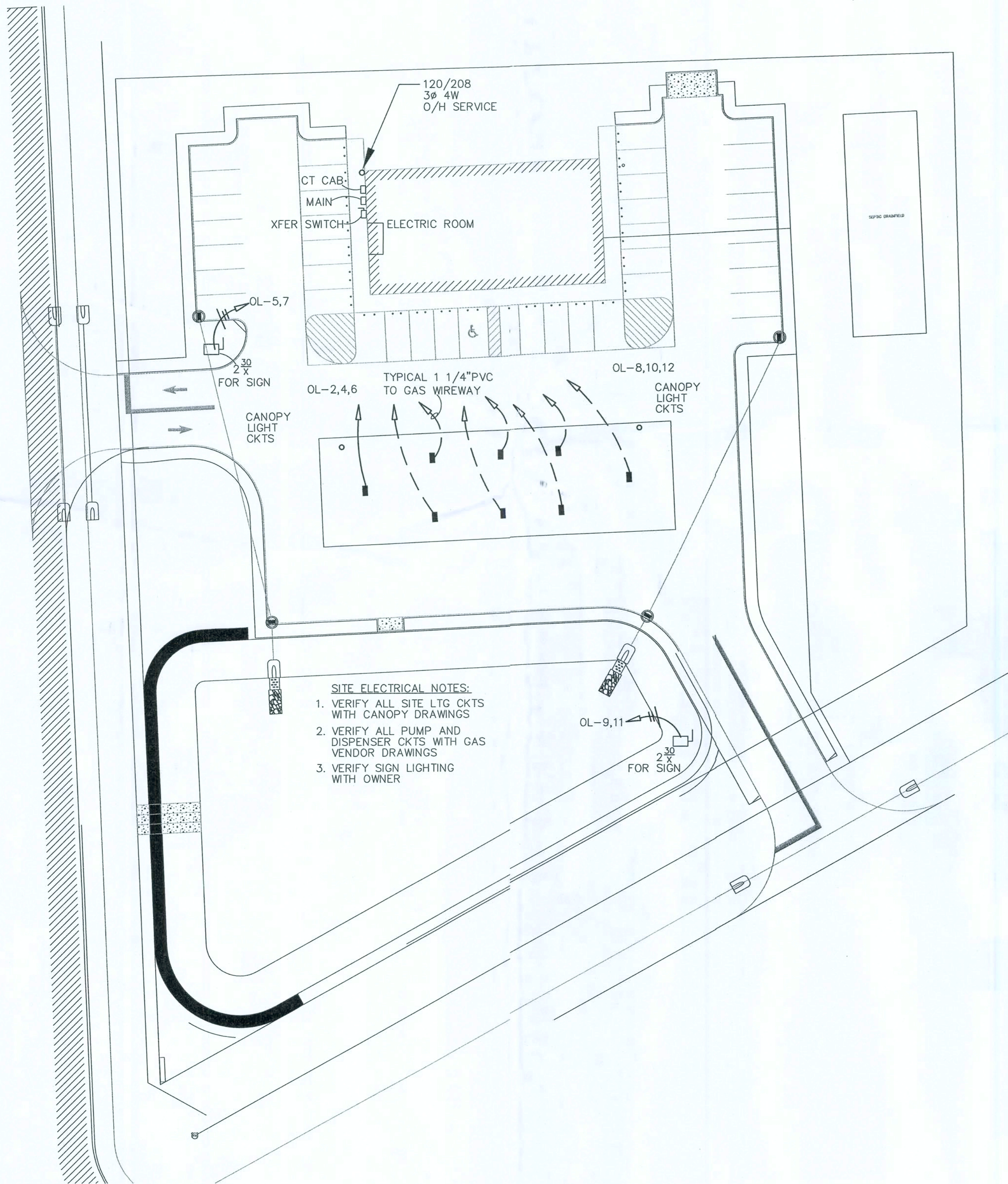
S & S FOOD STORE NO. 29
BIRLEY & PINEMOUNT ROAD
LAKE CITY, FLORIDA

CRAIG SALLEY, R.A.
FL REG. NO. 4475

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SP-3

0 18
SHEETS



ELECTRICAL SITE PLAN
SCALE 1" = 40'-0"

MARK	DESCRIPTION
A	4' LONG G FLUORESCENT STRIP CHANNEL, SURFACE MOUNTED WITH ONE (1), ELECTRONIC BALLAST. FURNISH FIXTURES WHERE NOTED 'WG' WITH WIRE GUARDS 120 VOLT, MODEL N NUMBER EQUAL TO DAY-BRITE MODEL T132-120-1/2 EB.
B	4' SURF/FACE MTD FLUORESCENT IN OFFICE
C	2'X4' FLUORESCENT LAYIN FIXTURE, 3 TUBE, WITH ACRYLIC PRISMATIC .125" THK LENSE. FLAT STEEL DOOR WITH 4100 K LAMPS, SINGLE ELECTRONIC BALLAST, 120 VOLT MODEL N NUMBER EQUAL TO DAYBRITE 2SPW232SF12-120-1/2EB-LPT841HL
D	DECORATIVE PENDANT ABOVE TABLE.
E	4' LONG G FLUORESCENT VAPOR TIGHT WET LOCATION INDUSTRIAL, SURFACE MOUNTED WITH TWO (2) F32T8 L LAMPS, ELECTRONIC BALLAST, FIBERGLASS REINFORCED POLYESTER BODY, CLOSED CELL GASKET, T, WET LOCATION, NSF CERTIFIED FOR FOOD ZONE INSTALLATION 120 VOLT, ELECTRONIC HO BALLAST FOR COLD AMBIENT APPLICATIONS FOR OT OPERATION, TWO GASKETED THREADED COUPLINGS FACTORY INSTALLED ON ENDS OF LUMINAIRE. MODEL N NUMBER EQUAL TO DAY-BRITE MODEL DWAE248120-1/2EB
F	6" X4' F FLUORESCENT SURFACE MOUNTED FIXTURE, 1 TUBE, WITH OPAL ACRYLIC LENSE. COATED STEEL HOUSING, 4100 K LAMPS, SINGLE ELECTRONIC BALLAST, 120 VOLT MODEL N NUMBER EQUAL TO DAYBRITE CLDW132-120-1/2-EB
G	RECESSED 8" HID FIXTURE W/ 50 WATT METAL HALIDE, MP50/C/U/MED, 120 VOLT, WITH CLEAR WHITE Baffle TRIM AND LENS INSERT, UL LISTED FOR WET LOCATION. MODEL N NUMBER EQUAL TO CAPRI CM8-M50C-V85WBC
H	SURFACE MOUNTED WALL PACK, 70 WATT METAL HALIDE, 120 VOLT, BRONZE FINISH PRISMATIC GLASS REFLECTOR, PHOTOCELL CONTROL. MODEL N NUMBER EQUAL TO NIGHT BRIGHT WPG070M-MT-LP PE.
X	UNIVERSAL MOUNT WHITE ABS EXIT SIGN WITH RED LED LAMP, UNIVERSAL FACE WITH CHEVRON DIRECTIONAL KNOCKOUTS, 120.277 SELECTABLE VOLTAGE. MODEL N NUMBER EQUAL TO McPHILBEN CXL-3-R-W
Y	UNIVERSAL MOUNT WHITE ABS EXIT SIGN WITH RED LED LAMP, UNIVERSAL FACE WITH CHEVRON DIRECTIONAL KNOCKOUTS, 120.277 SELECTABLE VOLTAGE, WITH CHARGER, INVERTER LEAD CALCIUM BATTERY PACK AND TWO 5.4w TUNGSTEN LAMPS MODEL N NUMBER EQUAL TO McPHILBEN VCRB

LIGHTING LEGEND	
	FLUORESCENT FIXTURE MULTITUBE-RECESSED OR SURFACE MTD. 24X48 "a"= FIXTURE TYPE DESIGNATION, SEE SCHEDULE -TYPICAL ALL LIGHT SYMBOLS
	FLUORESCENT FIXTURE MULTITUBE-RECESSED OR SURFACE MTD. 24X24
	FLUORESCENT FIXTURE MULTITUBE-WALL OR CEILING MTD.
	FLUORESCENT FIXTURE MULTITUBE-WALL MTD.
	FLUORESCENT FIXTURE SINGLE TUBE-SURFACE MTD.
	FLUORESCENT FIXTURE SINGLE TUBE-WALL MTD.
	SURFACE MOUNTED FIXTURE PER SCHEDULE, "a" := FIXTURE TYPE
	RECESSED FIXTURE PER SCHEDULE, "a" := FIXTURE TYPE
	WALL MOUNTED FIXTURE PER SCHEDULE, "a" := FIXTURE TYPE
	EXIT LIGHT-DIRECTION ARROW(S) AS INDICATED-SURFACE OR WALL MTD.
	EMERGENCY BATTERY OPERATED LIGHT, SEE SCHEDULE y= FIXTURE TYPE
	TOGGLE SWITCH UP 42" UNLESS NOTED OTHERWISE
	TOGGLE SWITCH UP 42" UNLESS NOTED, 3 WAY, 4 WAY
	TOGGLE SWITCH UP 42", P= PILOT/ K= KEY OPERATED
	TOGGLE SWITCH, MOTOR RATED WITH THERMAL PROTECTION
	MOTION SENSOR LIGHT SWITCH
	FIXTURE WITH BATTERY PACK AND INVERTER
	NIGHT LIGHT

POWER LEGEND	
	DUPLEX RECEPTACLE
	DUPLEX RECEPTACLE GFI
	QUADRAPLEX RECEPTACLE
	SPECIAL PURPOSE RECEPTACLE AS NOTED
	FLOOR OUTLET
	JUNCTION BOX
	THERMOSTAT OUTLET HUMIDISTAT OUTLET
	DATA OUTLET UP 12" UNLESS NOTED- EACH SYMBOL = 2 CAT5E CABLES AND TWO RJ45 JACKS IN SINGLE GANG BOX. >> = (4) CABLES AND 4 JACKS DOUBLE GANG BOX, >>> = (6) EACH ETC,
	TELEPHONE OUTLET (VOICE ONLY) UP 12" UNLESS NOTED/ FLOOR OUTLET
	DISCONNECT, 3=NO. OF POLES, 30=FRAME SIZE, 15=FUSE, X=NO FUSE
	MAGNETIC MOTOR STARTER OR CONTACTOR, 2= NEMA SIZE
	COMBINATION STARTER AND DISCONNECT
	ELECTRIC MOTOR-VOLTAGE, PHASE & SIZE AS SHOWN
	ELECTRICAL LIGHTING OR APPLIANCE PANEL BOARD
	ELECTRICAL DISTRIBUTION OR POWER PANEL BOARD
	CURRENT TRANSFORMER CABINET PER UTILITY SPECS
	UTILITY METER (PER UTILITY CO SPECS)
	TELEPHONE TERMINAL CABINET OR BOARD-SIZE AS NOTED
	SIGNAL OR SOUND CABINET OR BOARD-SIZE AS NOTED
	4"x8"/3/4" TELEPHONE TERMINAL BOARD W/ GROUND AND RECEPTACLE
	CONDUIT RUN CONCEALED IN WALL OR CEILING
	CONDUIT RUN UNDERFLOOR OR UNDERGROUND
	HOME RUN TO PANEL, LONG LINE=NEUTRAL OR GND, SHORT LINE(S)=CIRCUIT(S)
	ELECTRIC HEATER
	PHOTOCELL
	WEATHERPROOF
	GROUND FAULT INTERRUPTER
	MTD. UP 48" OR ABOVE COUNTERTOP BACKSPLASH
	T.V. OUTLET
	SPEAKER OUTLET
	INTERCOM CALL-IN SWITCH 48" AFF

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DIRLEY & PINEMOUNT ROAD
LAKE CITY, FLORIDA



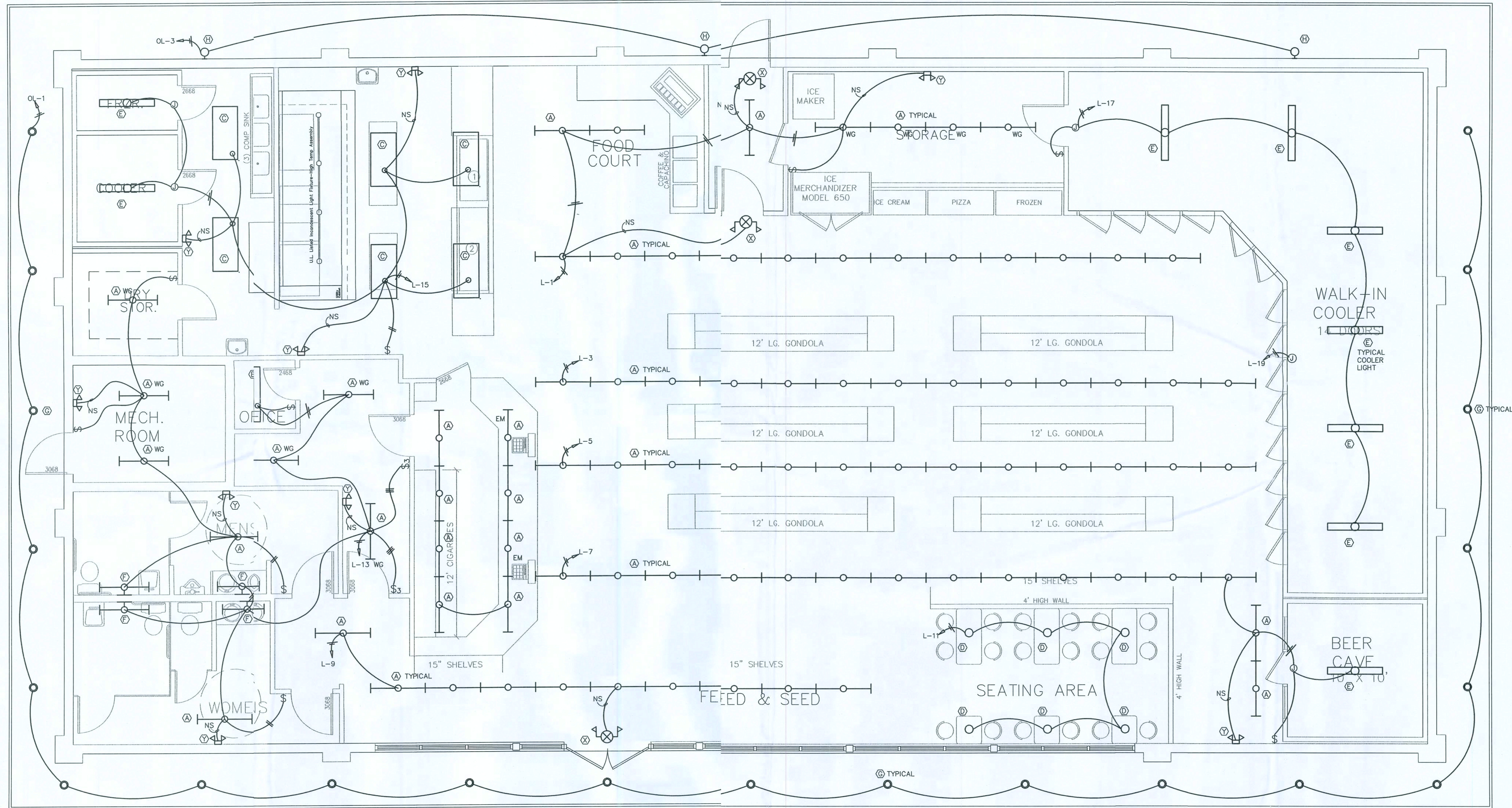
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E1

OF
SHEETS



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



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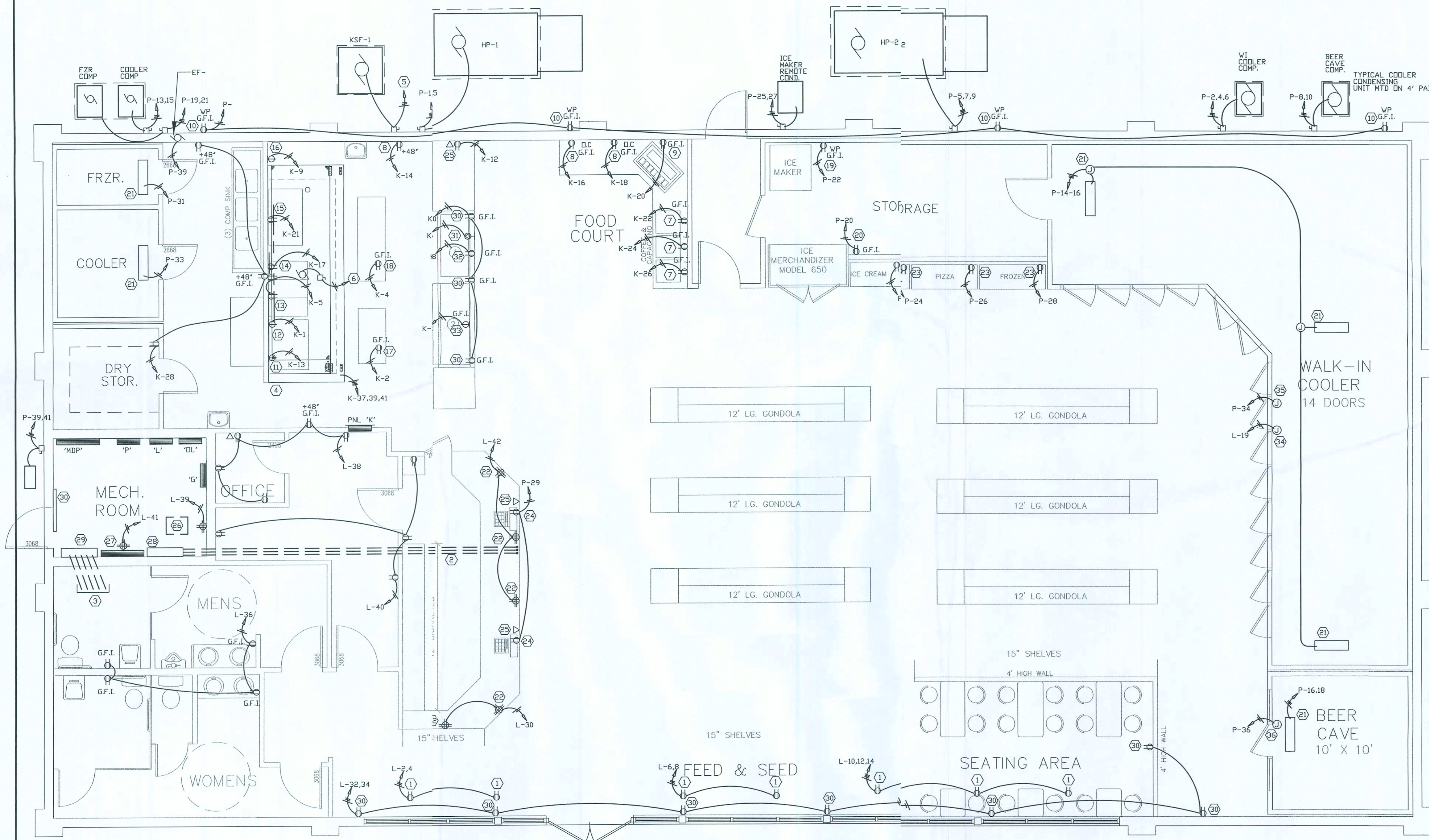
E2

OF
SHEETS

EQUIPMENT SCHEDULE

	VOLTS	PH	KW	AMPS	CW	HW	FW	DRAIN	GAS	BTUH
1A 5' DROP-IN HOT WELL	120	1	2.36							
1B WARMING DRAWER	120	1	1.05							
2 8' COLD FOOD DROP-IN	120	1								
3 14' GAS DEER FRYER (2)	120	1	0.1	8					3/4"	11,000
4 FRYER FILTER MATE	120	1	1.2							
5 2 BURNER COOK TOP										
6 GAS COMBI-OVEN	120	1	0.67	5.7	3/4		3/4	1 1/2" IW	3/4"	45,000
7 CONVECTION OVEN										
8 GRILL / CHARBROILER									3/4"	210,000
9 REFRIGERATED SANDWICH PREP	120	1	0.35	-						
10 5' SS PREP TABLE										
11 3-COMPARTMENT SINK					1/2	1/2		1 1/2"		
12 HAND SINK (2)					1/2	1/2		1 1/4"		
13 14' EXHAUST HOOD										
14 FOOD WARMER (FRYER)	120	-	0.5	-	-	-	-	-	-	-

* GRILLE 36" @ 30,000 X 3 = 90,000
 CHARBROILER 36" @ 20,000 X 6 = 120,000



SPECIFIC POWER NOTES, DRAWING E3

- ① CEILING MOUNTED RECEPTACLE FOR SHOW WINDOW LIGHTING
- ② THREE (3)- 2 INCH CONDUIT FOR GAS PUMP CONTROLS AND POINT OF SALE LOW VOLTAGE WIRING
- ③ 1 1/2" CONDUIT WITH SEAL OFF FITTINGS, ONE TO EACH GAS DISPENSER FOR LOW VOLTAGE CONTROLS FOR GAS DISPENSER CONTROL
- ④ KITCHEN EXHAUST HOOD CONTROL CABINET, POWER AND CONTROLS TO KEF-1 AND KSF-1
- ⑤ POWER WIRING TO KITCHEN HOOD CONTROL PANEL FROM KSF-1, SEE RISER
- ⑥ POWER WIRING TO KITCHEN CONTROL PANEL FROM KEF-1, ON ROOF, SEE POWER RISER
- ⑦ 120V, 10, 20A RECEPTACLE FOR COFFEE MAKERS, MOUNTED ABOVE COUNTER, VERIFY REQUIREMENTS WITH EQUIPMENT
- ⑧ 120V, 10, 20A, RECEPTACLES FOR APPLIANCES MOUNTED ABOVE COUNTER OR AS NOTED
- ⑨ 120V, 10, 20A, RECEPTACLE FOR SODA DISPENSER, VERIFY MOUNTING HEIGHT WITH EQUIPMENT INSTALLATION INSTRUCTIONS
- ⑩ MAINTENANCE RECEPTACLE, GFI
- ⑪ 120V, 10, 20A RECEPTACLE FOR CONTROL POWER TO CONVECTION OVEN SHUNT TRIP BREAKER
- ⑫ 120V, 10, 20A RECEPTACLE FOR CONTROL POWER TO CONVECTION OVEN SHUNT TRIP BREAKER
- ⑬ 120V, 10, 20A RECEPTACLE FOR CONTROL POWER TO FRYERS/FILTER OVEN SHUNT TRIP BREAKER
- ⑭ 120V, 10, 20A RECEPTACLE FOR CONTROL POWER TO FRYER WARMER OVEN SHUNT TRIP BREAKER
- ⑮ 120V, 10, 20A RECEPTACLE FOR CONTROL POWER TO GRILLE/ BRIDLER, SHUNT TRIP BREAKER
- ⑯ 120V, 10, 20A RECEPTACLE FOR POWER TO REFRIGERATED SANDWICH PREP, SHUNT TRIP BREAKER
- ⑰ RECEPTACLE BELOW TABLE . 120V, 10, 20A, GFI
- ⑱ RECEPTACLE BELOW TABLE. 120V, 10, 20A GFI
- ⑲ 120V, 10, 20A RECEPTACLE FOR ICE MAKER, VERIFY MOUNTING HEIGHT AND REQUIREMENTS WITH MANUFACTURER DATA SHEETS
- ⑳ 120V, 10, 20A RECEPTACLE FOR ICE MERCHANDISER, VERIFY MOUNTING HEIGHT AND POWER REQUIREMENTS WITH MANUFACTURER DATA SHEETS
- ㉑ 120V, 10A RVAPORATOR CIRCUIT TO COOLER (FREEZER) EVAPORATOR UNITS, VERIFY EXACT REQUIREMENTS WITH MANUFACTURER DATA
- ㉒ TYPICAL UNDER COUNTER, GENERAL PURPOSE QUAD PLEX RECEPTACLES FOR GENERAL USE, 120V, 10, 20A CIRCUIT
- ㉓ 120V, 10, 20A RECEPTACLES FOR DISPLAY CASES, VERIFY REQUIREMENTS WITH MANUFACTURER DATA, MOUNTED @ 48"
- ㉔ 120V, 10, 20A POINT OF SALE RECEPTACLE MOUNTED BELOW COUNTER
- ㉕ DATA OUTLET, PROVIDE 4 X 4 X 2 1/2" J-BOX WITH SINGLE GANG COVER AND FOUR (4) CAT 5E CABLES FROM DATA RACK, PROVIDE A 4 POSITION DATA JACK IN BOX AND FOUR (4) WIRED RJ-45 JACKS, VERIFY WITH OWNER
- ㉖ DATA RACK
- ㉗ 4" X 8" X 3/4" PLYWOOD BACKBOARD PAINTED WITH BLACK FIRE RETARDANT PAINT
- ㉘ 8" X 8" X 36" WIREWAY MOUNTED 12" AFF, WITH FRONT MOUNTED REMOVABLE COVER, FOR ROUTING OF LOW VOLTAGE TO SALES COUNTER THROUGH CONDUIT (2)
- ㉙ 8" X 8" X 36" WIREWAY MOUNTED 12" AFF WITH FRONT MOUNTED REMOVABLE COVER, FOR ROUTING OF LOW VOLTAGE TO GAS DISPENSERS
- ㉚ 120V, 10A, GENERAL PURPOSE RECEPTACLES
- ㉛ 30A, 120V 10A, SPECIAL PURPOSE RECEPTACLE FOR HOT FOOD WELL, VERIFY RECEPTACLE CONFIGURATION WITH MANUFACTURER
- ㉜ 120V, 20A, 10, RECEPTACLE FOR WARMING DRAWER
- ㉝ 208V, 3Ø, 3 WIRE PLUS GROUND, MOUNTED AT 48" AFF.
- ㉞ 120V, 1Ø, 3W CKT FOR DOOR LIGHTS VERIFY CONNECTION POINT WITH MFR DETAILS
- ㉟ 120V, 1Ø, 20A CKT FOR DOOR HEATERS, 4.37A TOTAL
- ㊱ 120V, 1Ø, 20A CKT FOR BEER CAVE DOOR & WINDOW HTRS 6AMPS TOTAL

ELECTRICAL POWER PLAN

1/4" = 1'-0"

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E3

OF
 SHEETS

PANEL - L LOCATION - MECH ROOM MOUNTING - xx SURFACE FLUSH									
SERVICE - 120 / 208 VOLTS, 3 / 0, 4 W 60 HZ BUSS SIZE - 225 A. 10,000 AIC BKRS.									
MAIN LUGS ONLY									
WATTS	WATTS	CIRCUIT		WIRE	POLE	AMP	NO.	WATTS	WATTS
A#	B#	C#						A#	B#
608			SALES LIGHTS	12	1	20	1	1400	1400
	416		SALES LIGHTS	12	1	20	3		
			SALES LIGHTS	12	1	20	5		
480			SALES LIGHTS	12	1	20	7	1400	1400
	320		SALES LIGHTS	12	1	20	9	1600	1600
			DINING LIGHTS	12	1	20	11		
448			OFFICE/RR LIGHTS	12	1	20	13		
	832		KITCHEN/COOLER	12	1	20	15		
			WALK IN LIGHTS	12	1	20	17		
600			WALK IN DOOR LIGHTS	12	1	20	19		
	1000		SPARE	1	20	21			
			SPARE	1	20	23			
	1000		SPARE	1	20	25			
			SPARE	1	20	27			
	1000		SPARE	1	20	29			
			SPARE	1	20	31			
	1000		SPARE	1	20	33			
			SPARE	1	20	35			
	1000		SPARE	1	20	37			
			DATA RECEIPT	1	20	39			
	1000		DATA RECEIPT	1	20	41			
TOTAL CONN. WATTS = 34070 W. (208X1.73) VOLTS = 95 AMPS									
FEEDER SIZE 3/0 CONDUIT SIZE 2" FEEDS FROM MDP									
CONNECTED WATTS ADJUSTED WITH APPROPRIATE MULTIPLIERS AND DIVERSITIES									

PANEL - K LOCATION - SEE PLAN MOUNTING - SURFACE xx FLUSH									
SERVICE - 120 / 208 VOLTS, 3 / 0, 4 W 60 HZ BUSS SIZE - 225 A. 10,000 AIC BKRS.									
MAIN LUGS ONLY									
WATTS	WATTS	CIRCUIT		WIRE	POLE	AMP	NO.	WATTS	WATTS
A#	B#	C#						A#	B#
670			GAS COMBI-OVEN	12	1	20	1	1200	1200
			SHUNT TRIP	12	1	20	3		
	1500		FRYER / FILTER	12	1	20	5	2360	2360
			SHUNT TRIP	12	1	20	7		
350			REF. SAND PREP	12	1	20	9	720	720
			SHUNT TRIP	12	1	20	11		
500			CONVECTION OVEN	12	1	20	13	1200	1200
			SHUNT TRIP	12	1	20	15		
	960		FRYER WARMING	12	1	20	17	1200	1200
			SHUNT TRIP	12	1	20	19		
	500		GRILLE-BROILER CTR	12	1	20	21	1200	1200
			SHUNT TRIP	1	20	23			
1000			SPARE	1	20	25			
	1000		SPARE	1	20	27			
			SPARE	1	20	29			
	1000		SPARE	1	20	31			
			SPARE	1	20	33			
	1000		SPARE	1	20	35			
1344			HOOD CONTROL PANEL	10	3	30	37		
	1344		2.5 HP				39		
							41		
TOTAL CONN. WATTS = 29151 W. (208X1.73) VOLTS = 81 AMPS									
FEEDER SIZE 3/0 CONDUIT SIZE 2" FEEDS FROM									
CONNECTED WATTS ADJUSTED WITH APPROPRIATE MULTIPLIERS AND DIVERSITIES									

PANEL - OL LOCATION - MECH ROOM MOUNTING - xx SURFACE FLUSH									
SERVICE - 120 / 208 VOLTS, 3 / 0, 4 W 60 HZ BUSS SIZE - 125 A. 10,000 AIC BKRS.									
MAIN LUGS ONLY									
WATTS	WATTS	CIRCUIT		WIRE	POLE	AMP	NO.	WATTS	WATTS
A#	B#	C#						A#	B#
1000			SOFFIT LIGHTS	10	1	20	1	1500	1500
	210		REAR SECURITY	10	1	20	3	1500	1500
			SIGN	8	2	20	5	1500	1500
1000			SIGN	8	2	20	9	1500	1500
	1000		SPARE	1	20	13			
			SPARE	1	20	15			
	1000		SPARE	1	20	17			
			SPARE	1	20	19			
1000			SPARE	1	20	21			
	1000		SPARE	1	20	23			
			SPACE				25		
							27		
							29		
							31		
							33		
							35		
							37		
							39		
							41		
TOTAL CONN. WATTS = 23763 W. (208X1.73) VOLTS = 66 AMPS									
FEEDER SIZE #1 CONDUIT SIZE 1 1/2" FEEDS FROM MDP									
CONNECTED WATTS ADJUSTED WITH APPROPRIATE MULTIPLIERS AND DIVERSITIES									

PANEL - P LOCATION - MECH ROOM MOUNTING - xx SURFACE FLUSH									
SERVICE - 120 / 208 VOLTS, 3 / 0, 4 W 60 HZ BUSS SIZE - 225 A. 10,000 AIC BKRS. SERIES RATED									
MAIN LUGS ONLY									
WATTS	WATTS	CIRCUIT		WIRE	POLE	AMP	NO.	WATTS	WATTS
A#	B#	C#						A#	B#
1000			SPARE	1	20	1		2016	2016
	1000		SPARE	1	20	3			
			SPARE	1	20	5			
1000			SPARE	1	20	7		804	804
	1000		SPARE	1	20	9			
			SPARE	1	20	11			
504			SMALL COOLER COND	12	2	15	13	648	915
	504		BEER CAVE EVAP	12	2	15	15		
			BEER CAVE EVAP	12	2	15	17		
756			SMALL FREEZER COND	12	3	15	19	1200	1200
	756		ICE MERCH	12	2	15	21		
			ICE MKR	12	2	15	23		
	1000		ICE CREAM	12	2	15	25	1200	1200
			PIZZA	12	2	15	27		
	1000		FROZEN	12	2	15	29	1200	1200
			BEER CAVE DOOR HTR	12	1	20	31	540	540
	1000		DOOR HEATER	12	1	15	33	524	720
			DOOR HTR BEER CAVE	12	2	20	35		
915			SPACE				37		
	1000		AC-1	12	2	20	39		
							41		
TOTAL CONN. WATTS = 33181 W. (208X1.73) VOLTS = 92 AMPS									
FEEDER SIZE 3/0 CONDUIT SIZE 2" FEEDS FROM MD									
CONNECTED WATTS ADJUSTED WITH APPROPRIATE MULTIPLIERS AND DIVERSITIES									

PANEL - G LOCATION - MECH/ELEC RM MOUNTING - SURFACE FLUSH									
SERVICE - 120 / 208 VOLTS, 3 / 0, 4 W 60 HZ BUSS SIZE - 125 A. 10,000 AIC BKRS*									
MAIN LUGS ONLY									
WATTS	WATTS	CIRCUIT		WIRE	POLE	AMP	NO.	WATTS	WATTS
A#	B#	C#						A#	B#
1700			SUB PUMP-REG	8	3	20	1	1700	1700
	1700		2 HP (ALTERNATING)				3		
			SUB PUMP-MID GRADE	8	3	20	5	1700	1700
	1700		2 HP (ALTERNATING)				7		
			SPARE	1	20	13			
1000			DISPENSER #1	1	20	15		1320	1320
	1000		DISPENSER #2	1	20	17			
			DISPENSER #3	1	20	19			
	1000		DISPENSER #4	1	20	21		1320	1320
			DISPENSER #5	1	20	23			
	1000		DISPENSER #6	1	20	25		1320	1320
			DISPENSER #7	1	20	27			
	1000		DISPENSER #8	1	20	29		1000	1000
			SPARE				31		
							33		
							35		
							37		
							39		
							41		
TOTAL CONN. WATTS = 41235 W. (208X1.73) VOLTS = 114 AMPS									
FEEDER SIZE #1 CONDUIT SIZE 1 1/2" FEEDS FROM MDP									
CONNECTED WATTS ADJUSTED WITH APPROPRIATE MULTIPLIERS AND DIVERSITIES									

PANEL—MDP			LOCATION—ELECTRIC ROOM			MOUNTING—			xx SURFACE			FLUSH			
SERVICE—120 / 208			VOLTS—3 / 0, 4			W 60 HZ			BUSS SIZE—600 A.			100,000/10,000 AIC BKRS. — SERIES RATED			
MAIN LUGS ONLY															
WATTS													WATTS		
A#	B#	C#	CIRCUIT	WIRE	POLE	AMP	NO.	NO.	AMP	POLE	WIRE	CIRCUIT	A#	B#	C#
11060			PANEL 'P'	#3/0	3	200	1	2	125	3	#1	PANEL 'OL'	7921		
	11060		┌	┌	┌	┌	3	4	┌	┌	┌	┌		7921	
		11060	└	└	└	└	5	6	└	└	└	└			7921
11357			PANEL 'L'	#3/0	3	200	7	8	100	3	#3	PANEL 'G'	13745		
	11357		┌	┌	┌	┌	9	10	┌	┌	┌	┌		13745	
		11357	└	└	└	└	11	12	└	└	└	└			13745
9719			PANEL 'K'	#3/0	3	200	13	14	110	3	#2	HP-1	12960		
	9719		┌	┌	┌	┌	15	16	┌	┌	┌	┌		12960	
		9719	└	└	└	└	17	18	└	└	└	└			12960
							19	20	110	3	#2	HP-2	12960		
							21	22	┌	┌	┌	┌		12960	
							23	24	└	└	└	└			12960
							25	26							
							27	28							
							29	30							
							31	32							
							33	34							
							35	36							
							37	38							
							39	40							
							41	42							
TOTAL CONN. WATTS= TOTAL CALC. LOAD= 199922 W: (208X1.7) VOLTS= 555 AMPS															
FEEDER SIZE (2) 350 KCMIL CONDUIT SIZE (2) 4" FEEDS FROM O/H SERVICE															
CONNECTED WATTS ADJUSTED WITH APPROPRIATE MULTIPLIERS AND DIVERSITIES															

PACKAGED UNIT SCHEDULE - ELECTRIC COOLING/ELECTRIC HEAT PUMP W/ AUX STRIP 208/3Ø

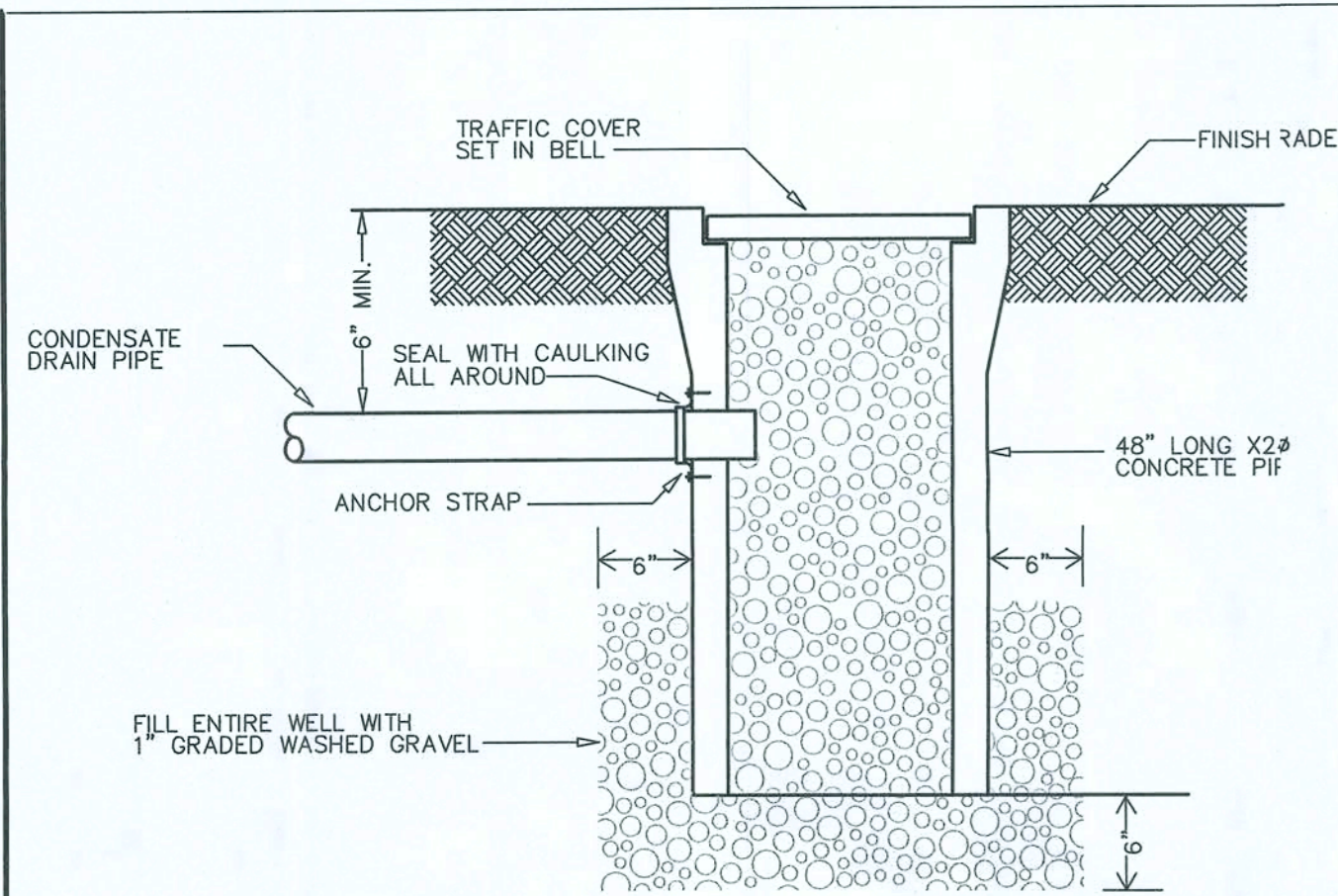
MARK	SYSTEM TYPE	MFR	MODEL	L/W/H/WT	NOM TON	COOLING CAPACTY				RATING CONDITIONS		HEATING CAP @47/70		AIR FLOW		INDOOR FAN						AUXILLIARY HEATER					COMP	FAN	ELECTRICAL			COMMENTS
						TOTAL	SE.	EER	IPLV	AMB	EAT-DB/WB	BTUH	HSPF/COP	CONFIG	AIR FLOW	CFM	EXT. SP.	DRIVE	RPM	HP	VOLTS/ø/FLA	KW	STAGE	VOLTS	PH	HTR AMP	AMPS	AMPS	MCA	BRKR	V/PH	
HP-1	PACKAGE HEAT PUMP	TRANE	WSC 090E3	88/54/97/840	7.5	91.75	51	11.1	12	95	80/67	80/59	3.4/2.2	PKG	SIDE	3000	0.5	B	658	1	208/3/	20.3	2	208	3	56.3	25	3.5	108	110	208/3	ALL
HP-2	PACKAGE HEAT PUMP	TRANE	WSC 090E3	88/54/97/840	7.5	91.75	51	11.1	12	95	80/67	80/59	3.4/2.2	PKG	SIDE	3000	0.5	B	658	1	208/3/	20.3	2	208	3	56.3	25	3.5	108	110	208/3	ALL

MINI-SPLIT SYSTEM AIR CONDITIONING SCHEDULE

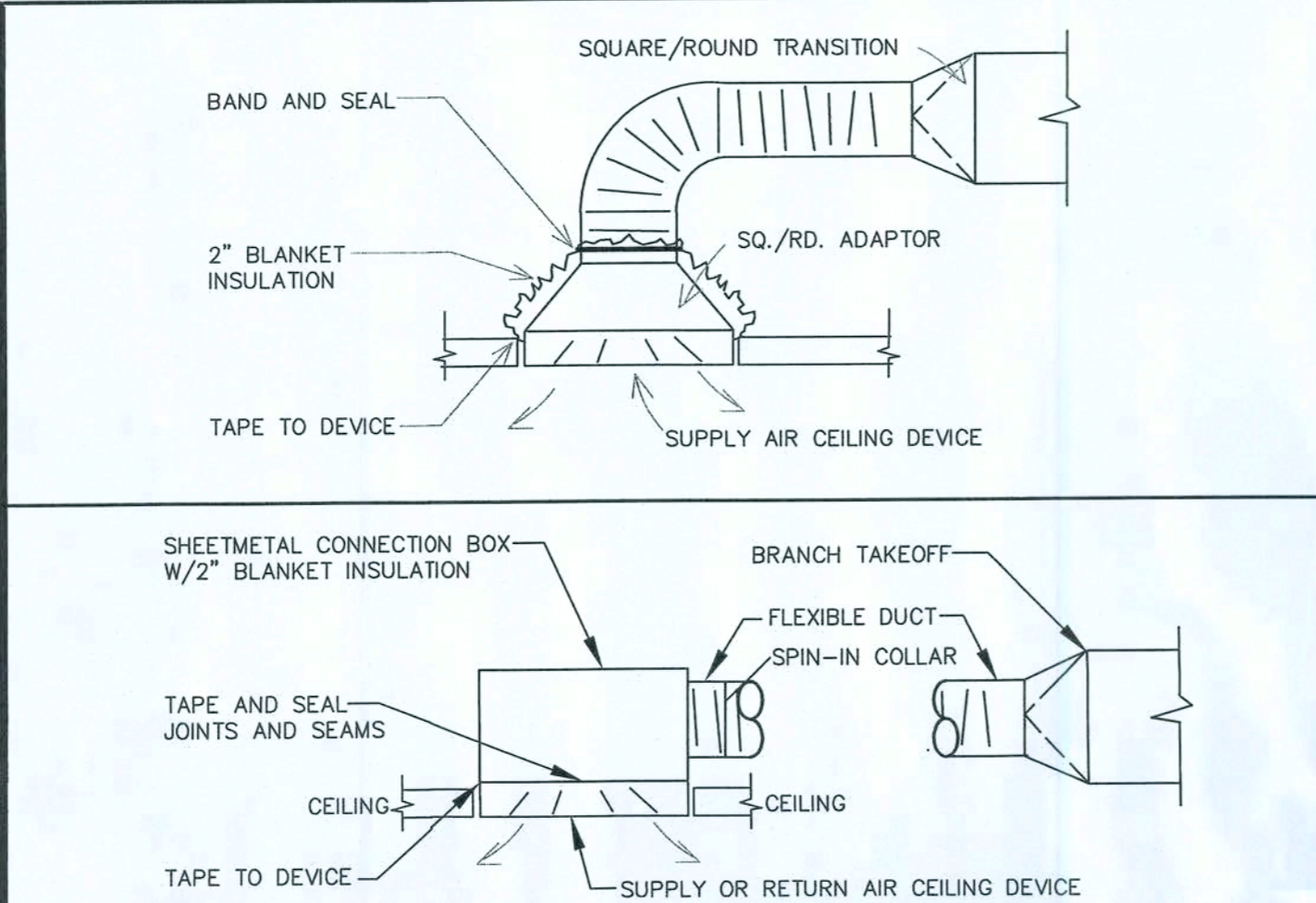
MARK	SYSTEM TYPE	MANUFACTURER	MODEL	NOM TON	COOLING CAPACITY		RATING CONDITIONS		INDOOR UNIT		FAN			ELECTRICAL					NOTES
					TOTAL BTUH	R	AMB	EAT-DB/WB	CONFIG	AIR FLOW	CFM	SPEEDS	VOLTS/ø/FLA	MCA	BRKR	V/PH	WIRE		
AC-1, AH-1	STRAIGHT COOL	COMFORT AIRE	DM12ASB-0	1	11,500	1	95	80/67	OVERHEAD	HORIZONTAL	330	3	115/1/11.7	6.2	15.0	115/1	14-3	1, 2, 3, 4, 5, 6	

1. WIRELESS REMOTE CONTROL
2. USE LINE SET 0804F-50
3. VERTICAL AND HORIZONTAL OSCILLATING ADJUSTABLE AIR FLOW
4. LOW AMBIENT KIT FOR OPERATION DOWN TO 32° AMBIENT OUTDOOR TEMPERATURE.
5. CLEANABLE ANTIBACTERIAL FILTERS
6. MOUNT OUTDOOR UNIT ON EQUIPMENT PAD AT GRADE.

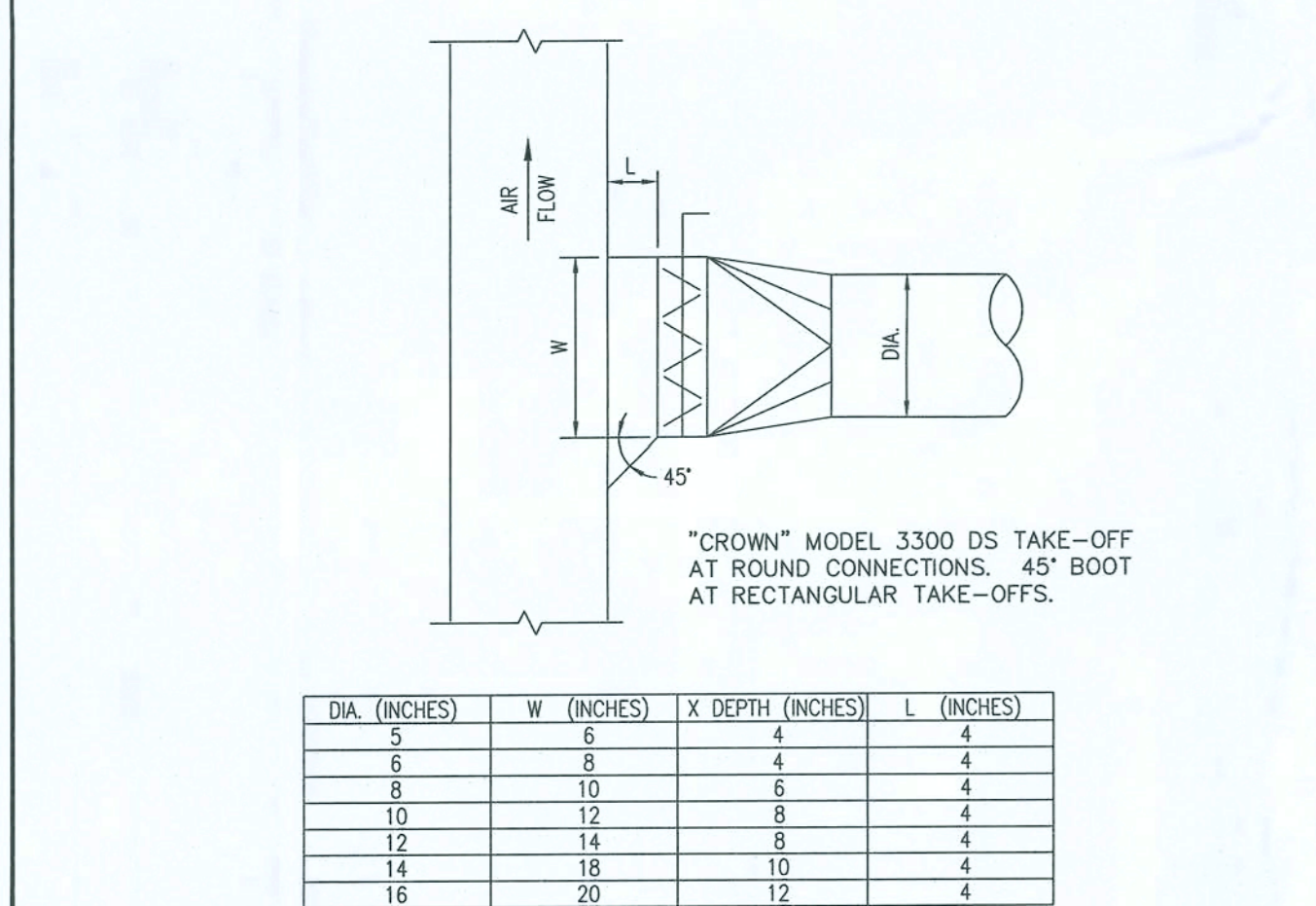
- COMMENTS
- 1 - PAD MTD, SIDE DISCHARGE PACKAGED UNIT
 - 2 - LOW AMBIENT START TO 0°
 - 3 - R410A REFRIGERANT
 - 4 - SINGLE POINT POWER
 - 5 - SUPPLY SMOKE DETECTOR
 - 6 - 2" MERV 7 FILTERS
 - 7 - PHASE MONITOR AND PHASE REVERSAL PROTECTION
 - 8 - ECONOMIZER WITH FULL ENTHALPY CONTROLS AND INTAKE HOOD
 - 9 - MOTORIZED O.A. DAMPER AND
 - 10 - PROGRAMMABLE 7 DAY - 4/DAY THERMOSTAT
 - 11 - CO2 SENSING WITH CONTROLS FOR MOTORIZED DAMPER OPERATION
 - 12 - PROVIDE DAMPER CONTROL INTERLOCK WITH EXHAUST HOOD START



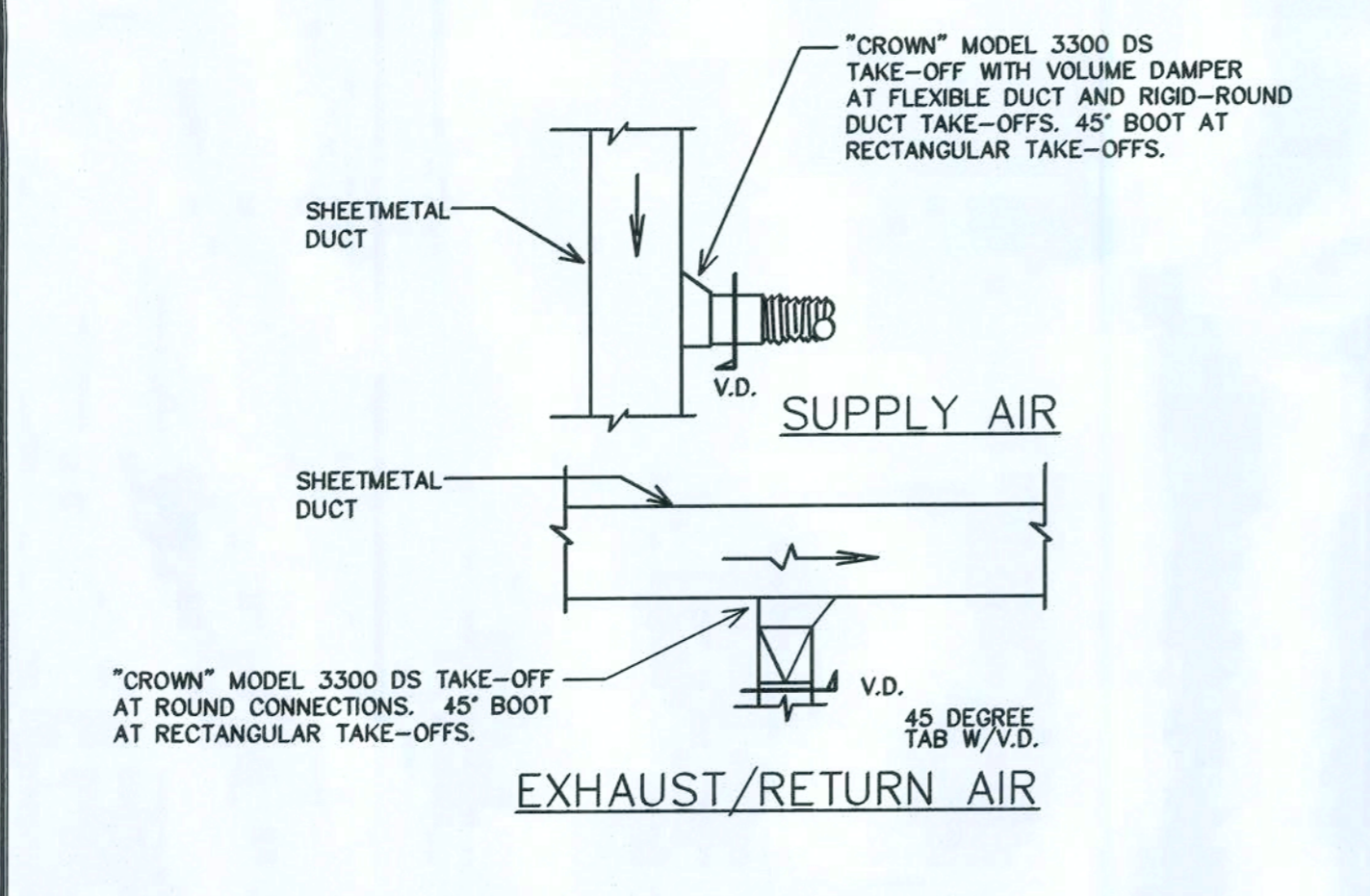
DRYWELL DETAIL



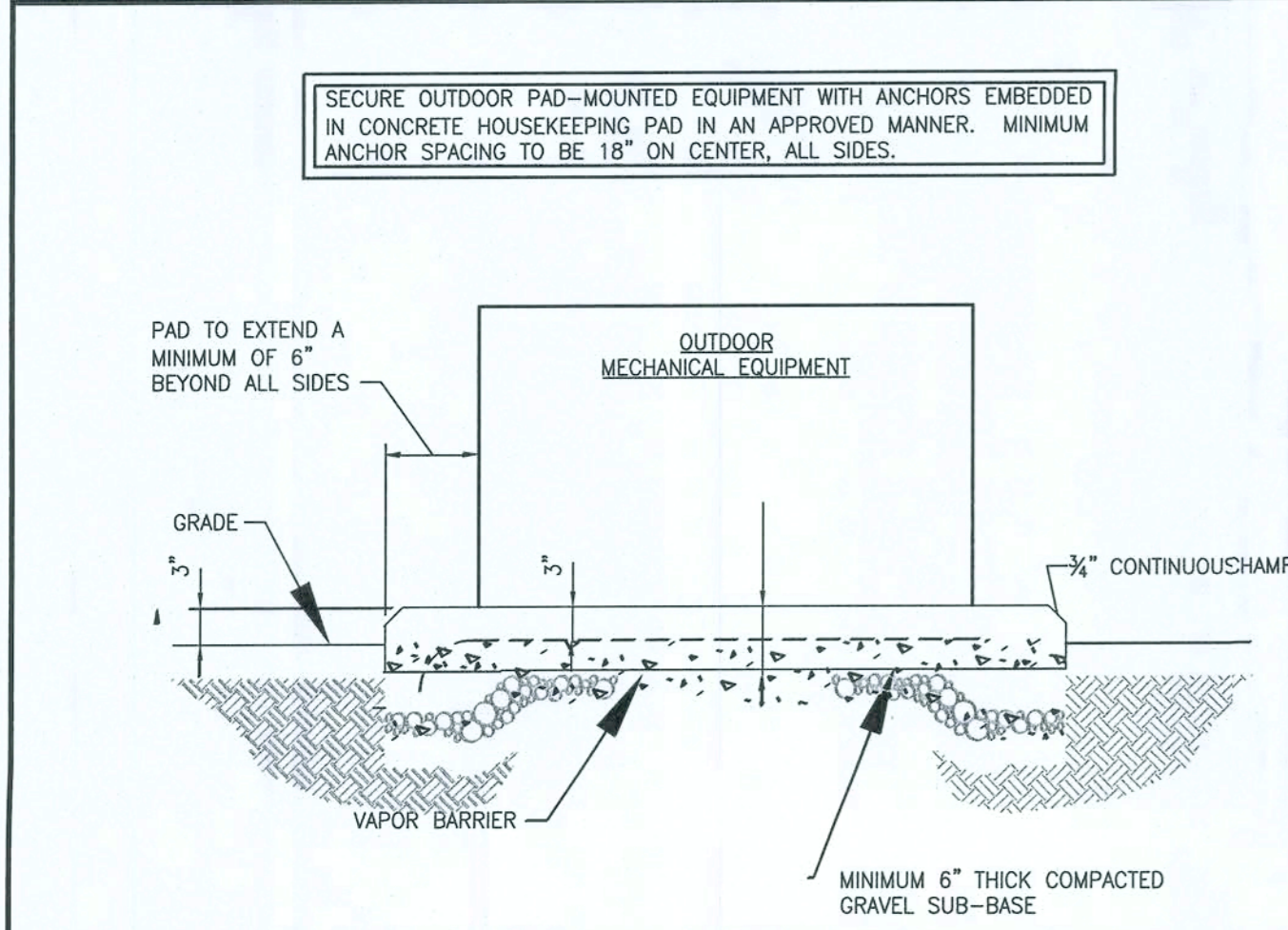
DIFFUSER CONNECTIONS



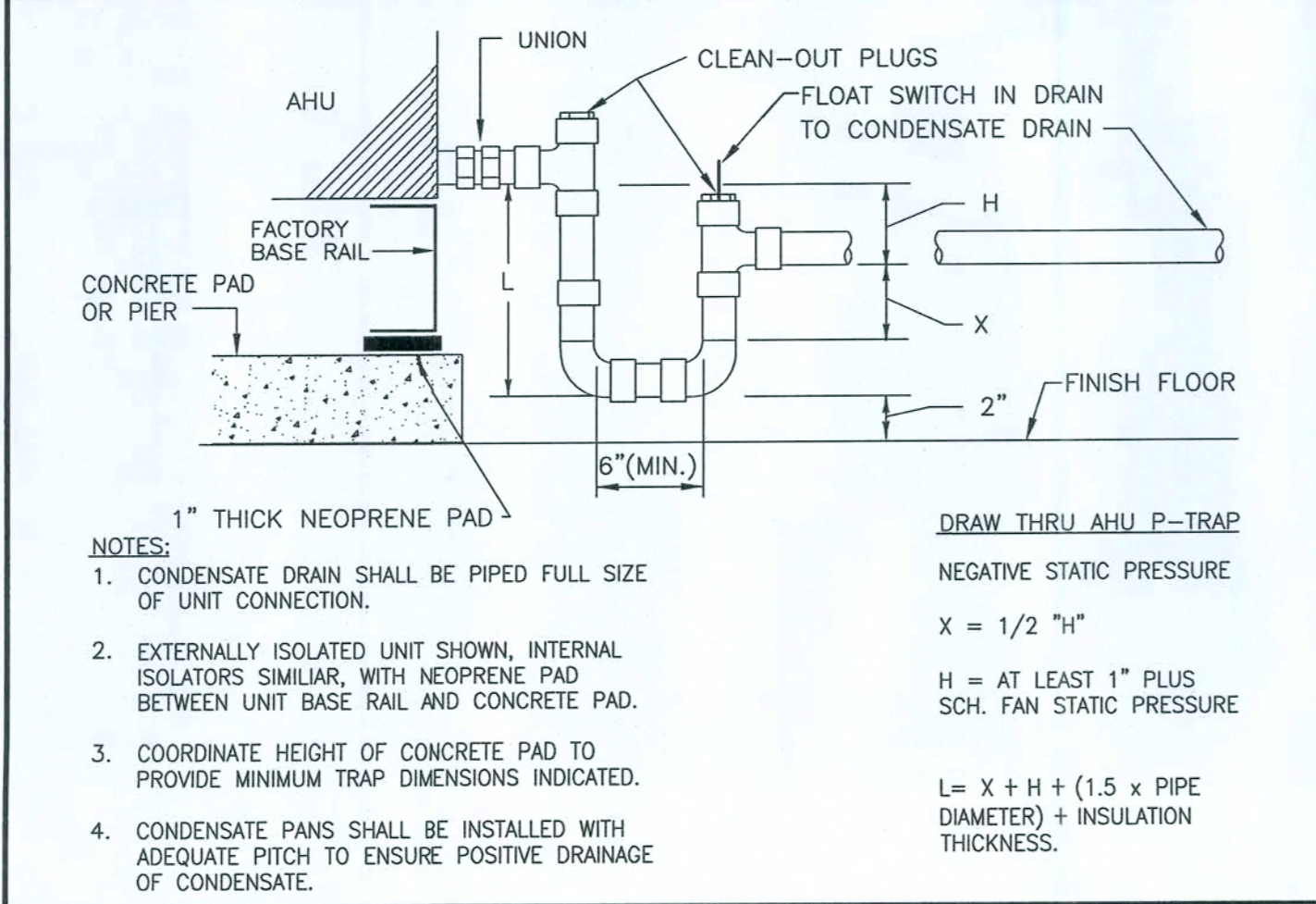
ROUND DUCT TAKEOFF DETAIL



AIR DUCT DETAILS



EQUIPMENT PAD DETAIL



AHU CONDENSATE DRAIN DETAIL

GRILLE & DIFFUSER SCHEDULE										
MARK	TYPE	MANUF.	MODEL	NOM. CFM	NECK SIZE	AIR PATTERN	N.C.	MAT'L	FINISH	COMMENTS
(A)	SUPPLY	TITUS	TMSA	300	24X24-10"	4 WAY	<29	2	1	1,3
(B)	SUPPLY	TMSA	300	24X24-10"	3 WAY	<29	2	1	1	1,3
(C)	SUPPLY	TMSA	400	24X24-12"	4 WAY	<29	2	1	1	1,3
(D)	SUPPLY	TMSA	100	24X24-6"	4 WAY	<29	2	1	1	1,3
(E)	SUPPLY	L201	100	6X4	1 WAY	<29	2	1	2	1,3
(F)	SUPPLY	TDC-AA	100	6X6	4 WAY	<29	2	1	2	1,3
(G)	SUPPLY	TMSA	200	24X24-8"	4 WAY	<29	2	1	1	1,3
(H)	RETURN	4FL	1350	24X48	RET.	<29	2	1	1	4
(I)	EXH	4FL	300	12X12	RET.	<29	2	1	1	4
(J)	EXHAUST	4FL	150	8X8	EXH.	<29	2	1	1	
(K)	EXHAUST									
(L)	EXHAUST									
(M)										
(N)										
(O)										
(P)										

MATERIAL: 1. STEEL, 2. ALUMINUM, 3. STAINLESS STEEL
FINISH: 1. WHITE ENAMEL, 2. ANODIZED CLEAR, 3. NATURAL
MOUNTING: 1. 24" X 24" LAY-IN, 2. DRYWALL, 3. GRILL BOTH SIDES, 4. SOFFIT, 5. FLANGE
COMMENTS: 1. OPPOSED BLADE DAMPER, 2. EQUALIZING DEFLECTOR, 3. SQUARE/ROUND ADAPTER, 4. FILTER BACK

EXHAUST FAN SCHEDULE										
MARK	MFR.	MODEL	TYPE	WATTS	HP	RPM	CFM	EXT. SP.	VOLT/Ø	COMMENTS
EF-1	BREIDERT	CWD	090AS	-	1/4	1030	300	0.375	120/1	1,2
FOR HOOD SUPPLY AND EXHAUST SEE M-1,2,3,4										

COMMENTS: 1 - PROVIDE WITH BACK DRAFT DAMPER AT WALL, 2 - PROVIDE SOLID STATE SPEED CONTROL

ASHRAE 62.1 STANDARD - OUTSIDE AIR REQUIREMENTS

ROOM NAME	AREA (SQ. FT.)	SPACE REQUIREMENTS		OCCUPANCY REQUIREMENTS				TOTAL O/A CFM
		CFM/SQFT	CFM	PEOPLE/SQFT	PEOPLE	CFM/PERSON	CFM	
SALES	2225	.12	267	15/1000	33	7.5	250	517
STORE	323	.12	38					38
CORR	140	.06	8					8
TOTAL								563

OUTSIDE AIR DIVIDED EQUALLY BETWEEN HP-1 AND HP-2

AIR BALANCE SCHEDULE							
OPERATION MODE	HP-1	HP-2	EF-1	KEF-1	KSF-1	AIR BAL.	RELIEF
1 STORE CLOSED (UNOCCUPIED)	0	0	OFF	OFF	OFF	0	
2 STORE OPEN GRILLE CLOSED	300	300	-300	OFF	OFF	+300	
3 STORE OPEN GRILLE OPEN	600	600	-300	-3500	2800	+200	
4 FREE COOLING *	600/3000*	600/3000*	-300	-3500	2800	+400	**5000-5600

* IN FREE COOLING MODE O.A. DAMPERS SHALL MODULATE WITH A MINIMUM POSITION AS SHOWN BASED ON OPERATION MODE, TO FULL OPEN AS REQUIRED.
** RELIEF DAMPER SHALL MODULATE TO MAINTAIN BLDG PRESSUREIZATION OF +400 CFM

SET POINT SCHEDULE			
OPERATION MODE	T1 / H1	T2 / H2	H-3
	C - H - RH	C - H - RH	RH
1 STORE CLOSED (UNOCCUPIED)	80-65-60	80-65-60	65
2 STORE OPEN GRILLE CLOSED	75-70-60	75-70-60	65
3 STORE OPEN GRILLE OPEN	75-70-60	75-70-60	65
4 FREE COOLING *	75-70-60	75-70-60	65

MECHANICAL LEGEND	
	SUPPLY DUCT
	RETURN DUCT
	EXHAUST DUCT
	FRESH AIR DUCT
	FLEXIBLE DUCT
	SQ SUPPLY DIFFUSER, SEE DESIGNATION FOR TYPE
	ROUND SUPPLY DIFFUSER, SEE DESIGNATION FOR TYPE
	RETURN GRILLE, SEE DESIGNATION FOR TYPE
	EXHAUST GRILLE, SEE DESIGNATION FOR TYPE
	DUCT SCOOP TAKEOFF WITH BALANCING DAMPER
	DIFFER/GRILLE TYPE SEE SCHEDULE
	TURNING VANES
	MANUAL VOLUME DAMPER
	MOTORIZED VOLUME DAMPER
	CONDENSATE DRAIN LINES
	REFRIGERANT LINES
	CONDENSATE DRYWELL, SEE DETAIL
	ROOF MTD EXHAUST FAN WITH CURB, SEE SCHEDULE
	ROOF MTD GRAVITY RELIEF OR INTAKE SEE SCHEDULE
	WALL MOUNTED EXHAUST FAN
	CEILING MOUNTED EXHAUST FAN
	INLINE FAN WITH VIBRATION ISOLATION
	WALL LOUVER/ INTAKE OR EXHAUST BY ARROW DIRECTION
	THERMOSTAT
	HUMIDISTAT
	DUCT MTD SMOKE DETECTOR
	REMOTE TEMP SENSOR

CRAIG SALLEY AND ASSOCIATES
ARCHITECTS • PLANNERS • INTERIOR DESIGNERS
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S & S FOOD STORE NO. 29
BIRLEY & PINEMOUNT ROAD
LAKE CITY, FLORIDA



CRAIG SALLEY
ENGINEER
1632820
HIGH SPRINGS, FLORIDA
352-535-0577
RICHARD E. CUBURN PE
E-36820

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HOOD INFORMATION

HOOD NO.	MODEL	LENGTH	MAX. COOKING TEMP.	TOTAL EXH. CFM	EXHAUST PLENUM RISER(S)					TOTAL SUP. CFM	SUPPLY PLENUM RISER(S)					HOOD CONSTRUCTION	HOOD CONFIG.	
					WIDTH	LENG.	DIA.	CFM	.P.		WIDTH	LENG.	DIA.	CFM	S.P.		END TO END	ROW
1	5424 ND-2-PSP-F	14' 0.00"	600 Deg.	3500	10"	16"		1750	-454"	2800						430 SS Where Exposed	ALONE	ALONE
					10"	16"		1750	-454"									

HOOD INFORMATION

HOOD NO.	TYPE	FILTER(S)			LIGHT(S)			WIRE GUARD	LOCATION	UTILITY CABINET(S)					FIRE SYSTEM PIPING	HOOD HANGING WGT
		QTY.	HEIGHT	LENGTH	QTY.	TYPE				FIRE SYSTEM	ELECTRICAL	SWITCHES	LOCATION			
1	SS Baffle with Handles	3	16"	16"	4	Incandescent Light Fix		NO	Left	Ansul R102	3.0/1.5	EMS11102	1 Light 1 Fan 1 Other	Outside	YES	788 LBS

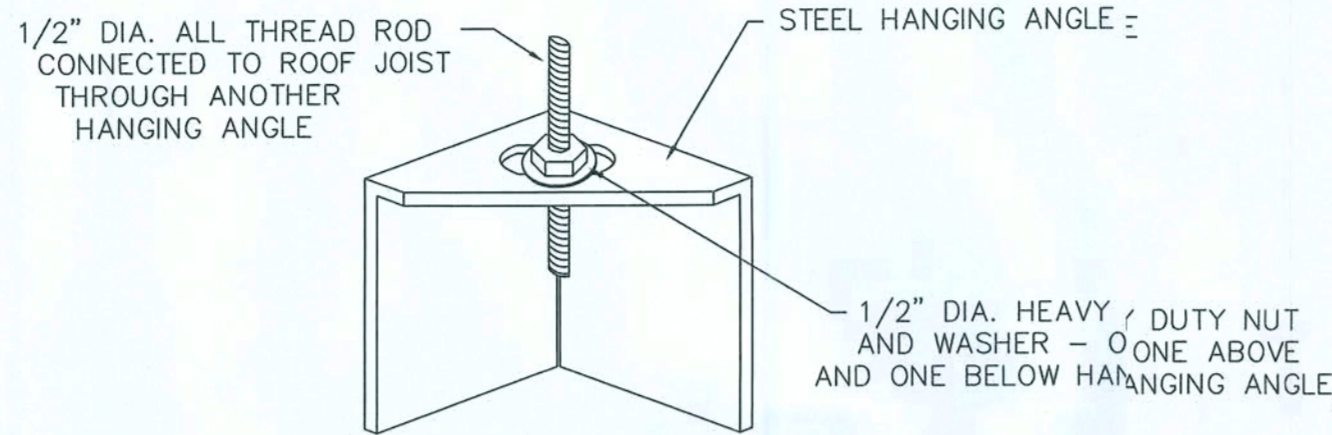
HOOD OPTIONS

HOOD NO.	OPTION
1	BACKSPLASH 84.00" High X 180.00" Long 430 SS

PERFORATED SUPPLY PLENUM(S)

HOOD NO.	POS.	LENGTH	WIDTH	HEIGHT	RISER(S)				
					WIDTH	LENG.	DIA.	CFM	S.P.
1	Front	180"	12"	6"	10"	24"		933	0.135"
					10"	24"		933	0.135"
					10"	24"		933	0.135"

CORNER HANGING ANGLE

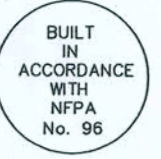


ROD, NUTS, AND WASHERS TO BE SUPPLIED BY INSTALLING CONTRACTOR. HANGING ANGLE IS PRE-PUNCHED AT FACTORY.

GENERAL NOTES :

1. ELECTRICAL HOOK-UP TO GAS MOTOR CONTROLS (MOTOR STARTERS, FAN SWITCHES, FAN DISCONNECTS, RELAYS, ETC.) BY OTHERS.
2. FIRE CHASE BY OTHERS, IF REQUIRED.
3. ALL PHASES OF INSTALLATION SHALL COMPLY WITH NFPA 96.
4. WRITTEN MEASUREMENTS HAVE PRECEDENCE OVER SCALE.
5. PROVIDE CLEANOUTS IN EXHAUST AIR DUCTS AS INDICATED TO ALLOW CLEANING AT ALL BENDS AND HORIZONTAL RUNS.
6. EXHAUST DUCT TO BE 16 GA. GAV STEEL. ALL SEAMS AND JOINTS TO HAVE A LIQUID TIGHT CONTINUOUS EXTERNAL WELD.
7. FAN TO HAVE A MINIMUM OF 10 FT. OF CLEARANCE FROM THE OUTLET TO ADJACENT BUILDINGS, PROPERTY LINES, AIR INTAKES OR 3 FT. VERTICAL CLEARANCE PER NFPA96.
8. HORIZONTAL EXHAUST DUCT TO SLOPE NOT LESS THAN 1/4" PER FOOT TOWARD HOOD FOR DUCT LESS THAN 75' LONG.
9. HOOD TO OVERHANG COOKING EQUIPMENT 6" ON ALL OPEN SIDES.
10. EXHAUST DUCT TO BE PROTECTED FROM COMBUSTIBLES PER NFPA96 AND LOCAL CODE.
11. BUILDING PRESSURE SHALL NOT EXCEED 0.02" WATER COLUMN AT EXTERIOR DOORS.
12. KITCHEN SHALL BE BALANCED TO BE NEGATIVE WITH RESPECT TO THE DINING ROOM.

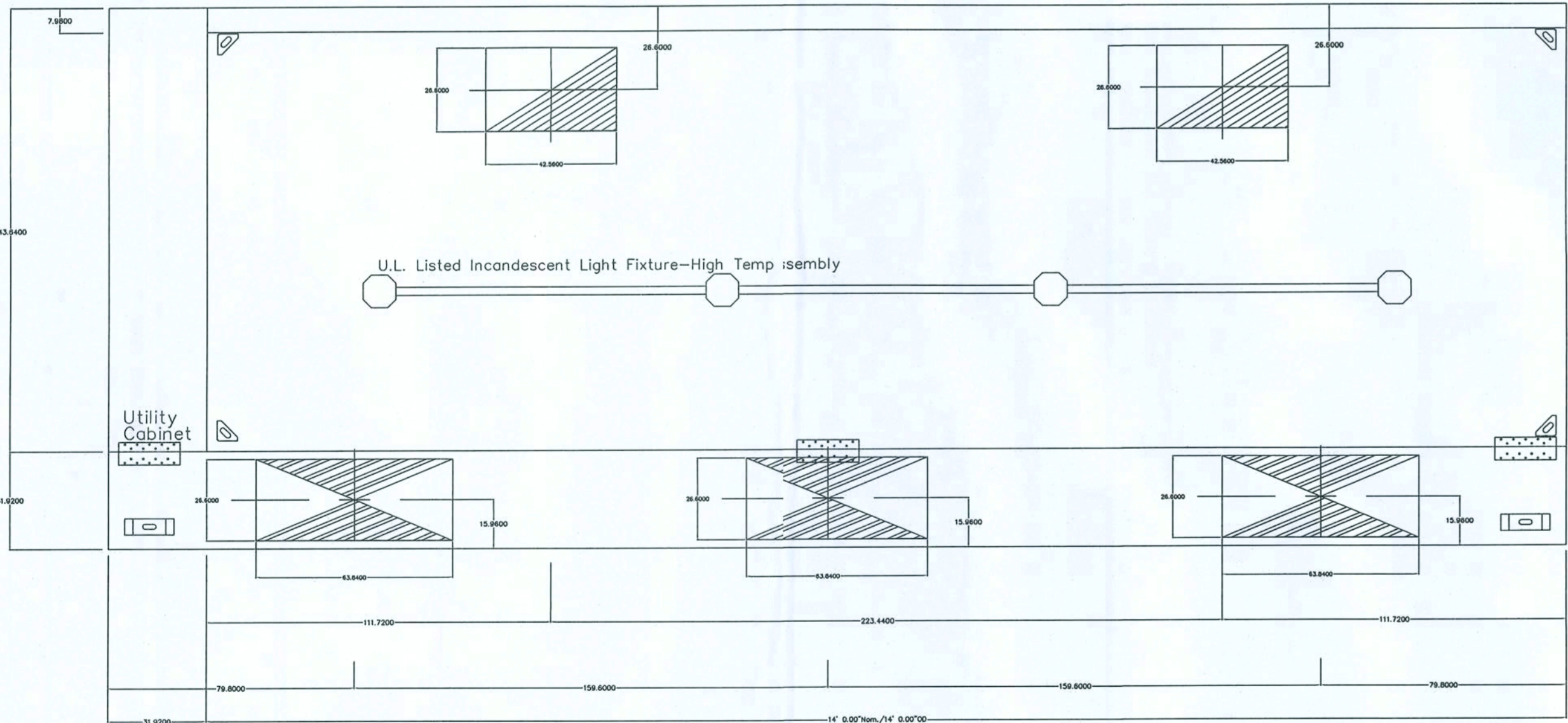
CAPTIVE-AIRE HOODS ARE BUILT IN COMPLIANCE WITH



NFPA #96
NSF

UL 710 & ULC710 STANDARDS
E.T.L. LISTED 3054804-001
TESTED TO UL 710 STANDARDS

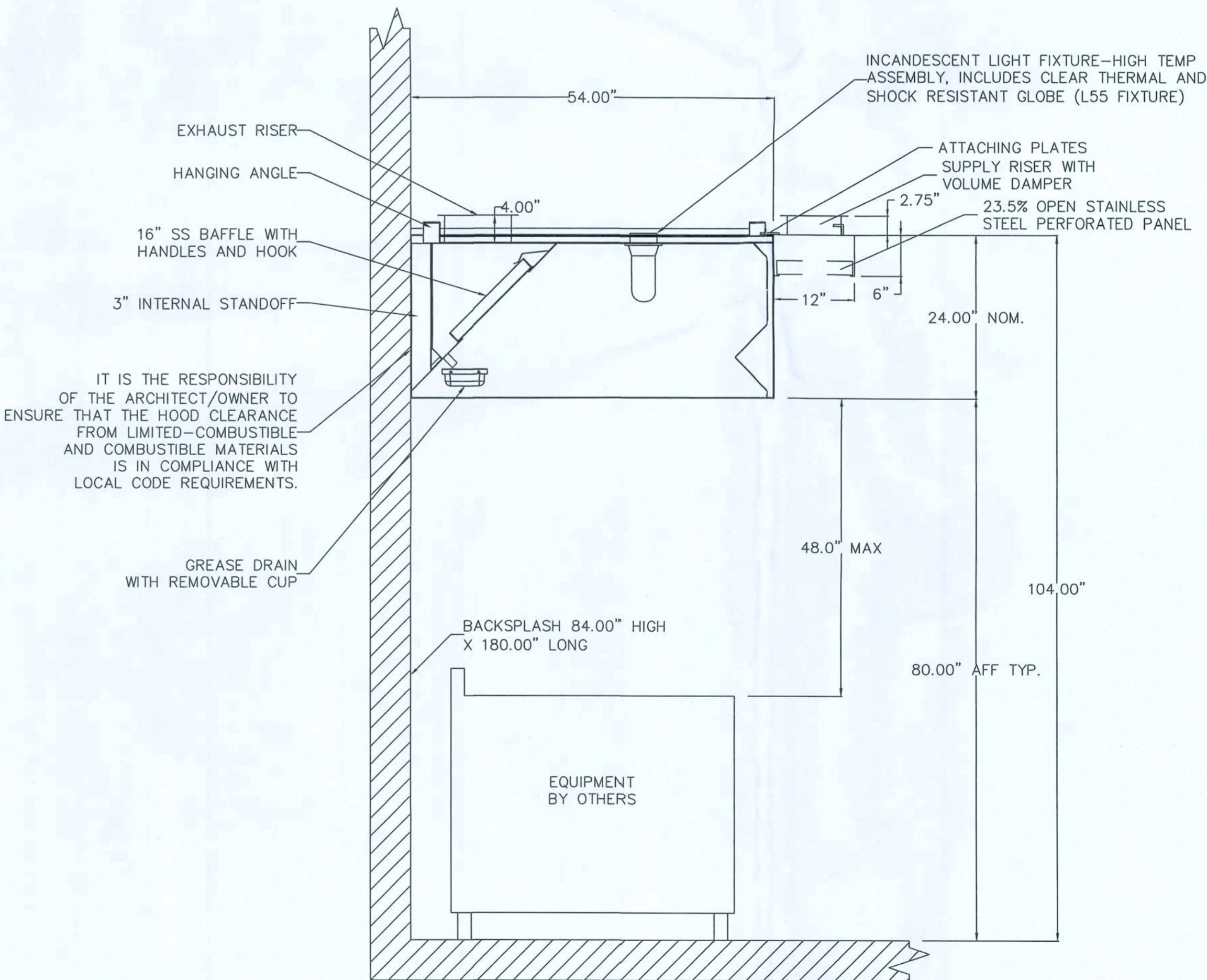
FOR QUESTIONS OR FURTHER INFORMATION, CONTACT
THE JACKSONVILLE, FL OFFICE (904) 389-8616



PLAN VIEW - Hood #1

14' 0.00\"/>

NOTE: Additional hangin angles provided for hoods longer than 12 ft.



SECTION VIEW - MODEL 5424ND-2-PSP-F

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EXHAUST FAN INFORMATION

FAN UNIT NO.	FAN UNIT MODEL #	MODEL	TAG	CFM	S.P.	RPM	H.P.	Ø	VOLT	FLA	WEIGHT (LBS.)
1	NCA18FA	NCA18FA		3500	1.000	932	1.500	3	208	4.7	175.59

HEATER/MUA FAN INFORMATION

FAN UNIT NO.	FAN UNIT MODEL #	BLOWER	HOUSING	TAG	CFM	S.P.	RPM	H.P.	Ø	VOLT	FLA	WEIGHT (LBS.)
2	A2-G12	G12	A2		2800	0.650	724	1.000	3	208	3.3	322.38

FAN OPTIONS

FAN UNIT NO.	OPTION (Qty. - Descr.)
1	1 - Grease Box
	1 - Hinge Kit - Ships Loose for Curb Supplied by Others
2	1 - Separate 120V Wiring Package (Required for EMS or Prewire with VFI - Three Phase Only)

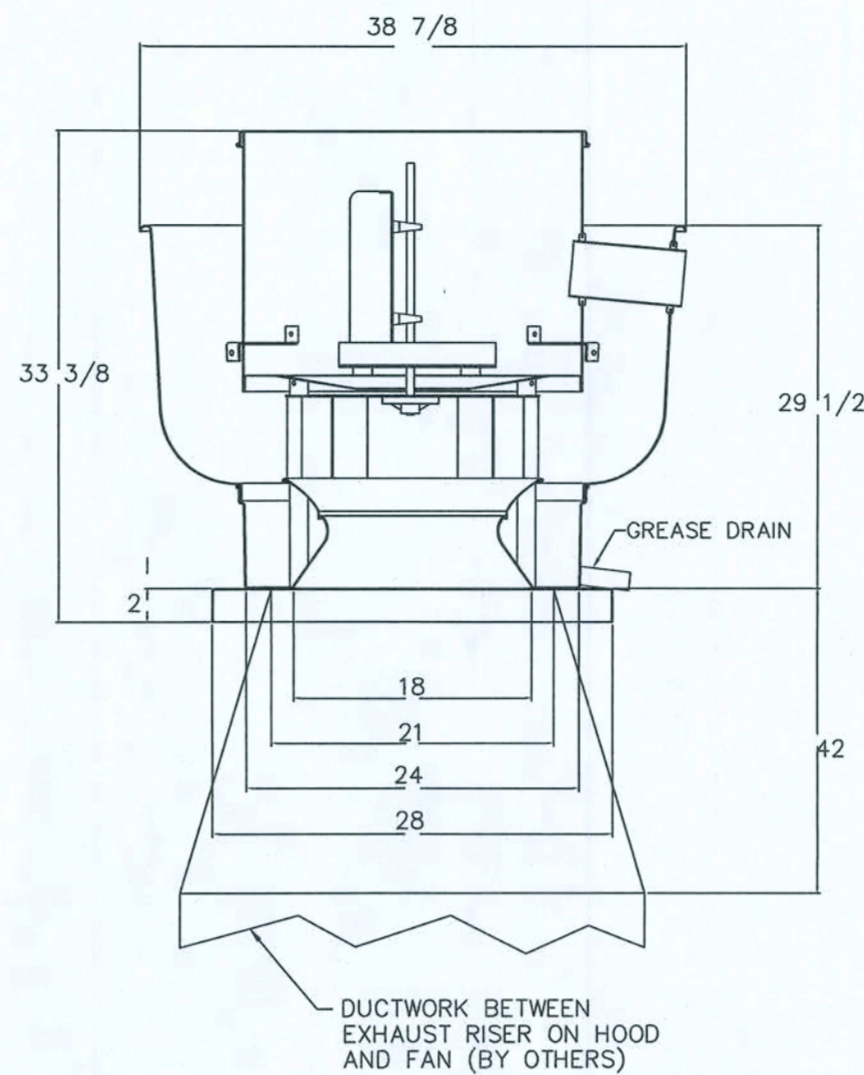
FAN ACCESSORIES

FAN UNIT NO.	FAN UNIT TAG	EXHAUST			SUPPLY			
		GREASE CUP	GRAVITY DAMPER	WALL MOUNT	SIDE DISCHARGE	GRAVITY DAMPER	MOTORIZED DAMPER	WALL MOUNT
1		YES						
2					YES			

CURB ASSEMBLIES

NO.	ON FAN	ITEM	SIZE
1	# 1	Curb	26.500"W x 26.500"L x 22.000"H 4.000:12.000 Pitch Vented
2	# 2	Curb	31.000"W x 31.000"L x 15.000"H

FAN #1 NCA18FA - EXHAUST FAN



FEATURES:

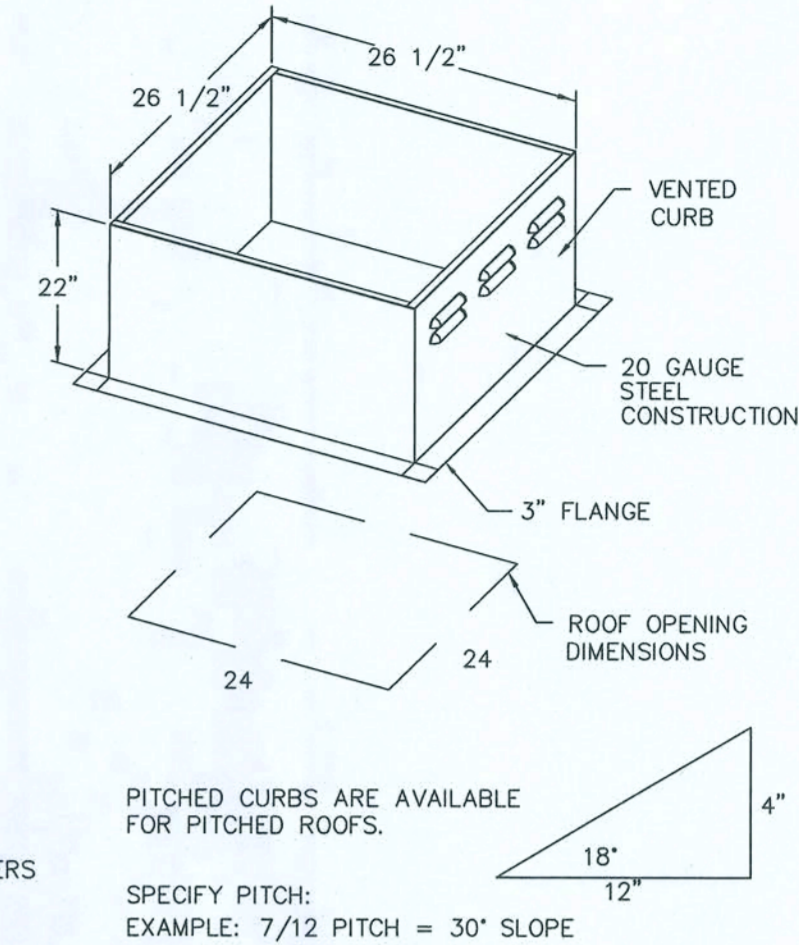
- ROOF MOUNTED FANS
- RESTAURANT MODEL
- UL762
- AMCA SOUND AND AIR CERTIFIED
- WIRING FROM MOTOR TO DISCONNECT SWITCH
- WEATHERPROOF DISCONNECT
- HIGH HEAT OPERATION 300°F (149°C)
- GREASE CLASSIFICATION TESTING

NORMAL TEMPERATURE TEST
EXHAUST FAN MUST OPERATE CONTINUOUSLY WHILE EXHAUSTING AIR AT 300°F (149°C) UNTIL ALL FAN PARTS HAVE REACHED THERMAL EQUILIBRIUM, AND WITHOUT ANY DETERIORATING EFFECTS TO THE FAN WHICH WOULD CAUSE UNSAFE OPERATION.

ABNORMAL FLARE-UP TEST
EXHAUST FAN MUST OPERATE CONTINUOUSLY WHILE EXHAUSTING BURNING GREASE VAPORS AT 600°F (316°C) FOR A PERIOD OF 15 MINUTES WITHOUT THE FAN BECOMING DAMAGED TO ANY EXTENT THAT COULD CAUSE AN UNSAFE CONDITION.

OPTIONS

- GREASE BOX
- HINGE KIT - SHIPS LOOSE FOR CURB SUPPLIED BY OTHERS

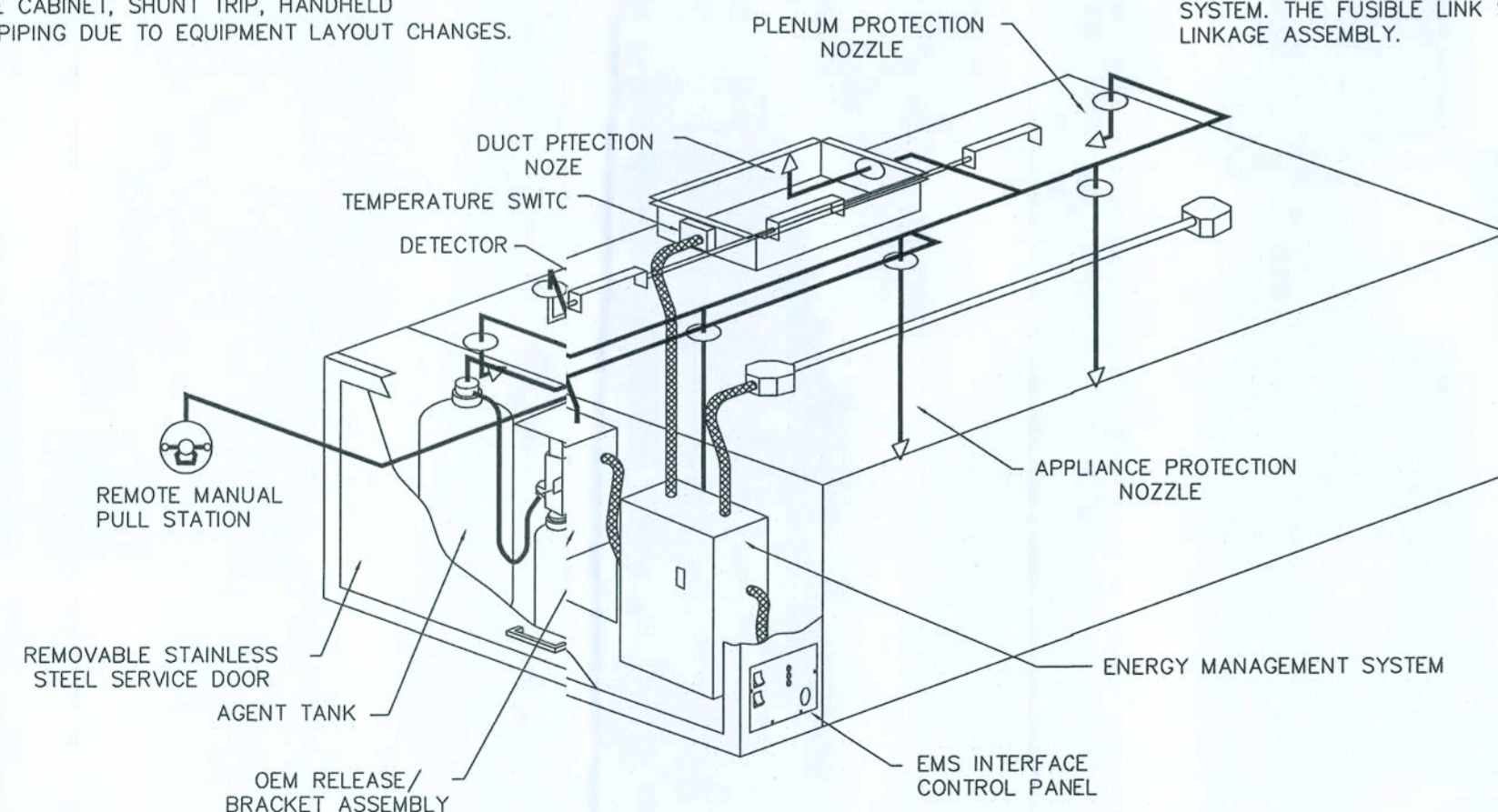


FAN #2 A2-G12 - SUPPLY FAN
1. UNTEMPERED SUPPLY UNIT WITH 12" BLOWER IN SIZE #2 HOUSING
2. INTAKE HOOD WITH EZ FILTERS
3. SIDE DISCHARGE - AIR FLOW RIGHT -> LEFT
4. SEPARATE 120VAC WIRING PACKAGE FOR MAKE-UP AIR UNITS. OPTION MUST BE SELECTED WHEN MOUNTING VFD IN PREWIRE PANEL OR WITH EMS PACKAGE. PROVIDES SEPARATE 120VAC INPUT TO SUPPLY FAN. THIS 120V SIGNAL MUST BE RUN BY ELECTRICIAN FROM EMS TO MUA SWITCH.

Fire System Information

FIRE SYSTEM NO.	TYPE	SIZE	FLOW POINTS	INSTALLATION	
				SYSTEM	LOCATION ON HOOD
1	Ansul R102	3.0/1.5	14	Fire Cabinet Left	Left

INCLUDES: FIELD INSTALLATION AND HOOKUP DURING NORMAL BUSINESS HOURS BY CERTIFIED INSTALLERS ONLY IN THE LOCATION NOTED ABOVE, TWO SITE VISITS ONLY (ONE VISIT TO SET PULL STATION & SYSTEM HOOKUP AND ONE VISIT FOR ONE TEST; ADDITIONAL VISITS WILL RESULT IN ADDITIONAL CHARGES), ONE MECHANICAL GAS VALVE PER SYSTEM AT A MAXIMUM SIZE OF 2", PERMIT, AND SYSTEM TEST.
EXCLUDES: UNION LABOR & PREVAILING WAGE (LABOR & WAGES WILL BE ADDED IF APPLICABLE), GAS VALVE INSTALLATION, ELECTRICAL HOOKUP AND CONNECTIONS, HANGING OF FIRE CABINET, SHUNT TRIP, HANDHELD EXTINGUISHER(S), ON-SITE RE-PIPING DUE TO EQUIPMENT LAYOUT CHANGES.



TYPIC ANSUL R102 FIRE SUPPRESSION SYSTEM
WITH ENERGY MANAGEMENT SYSTEM
(UTILITY CABINET CAN BE LEFT OR RIGHT MOUNTED)

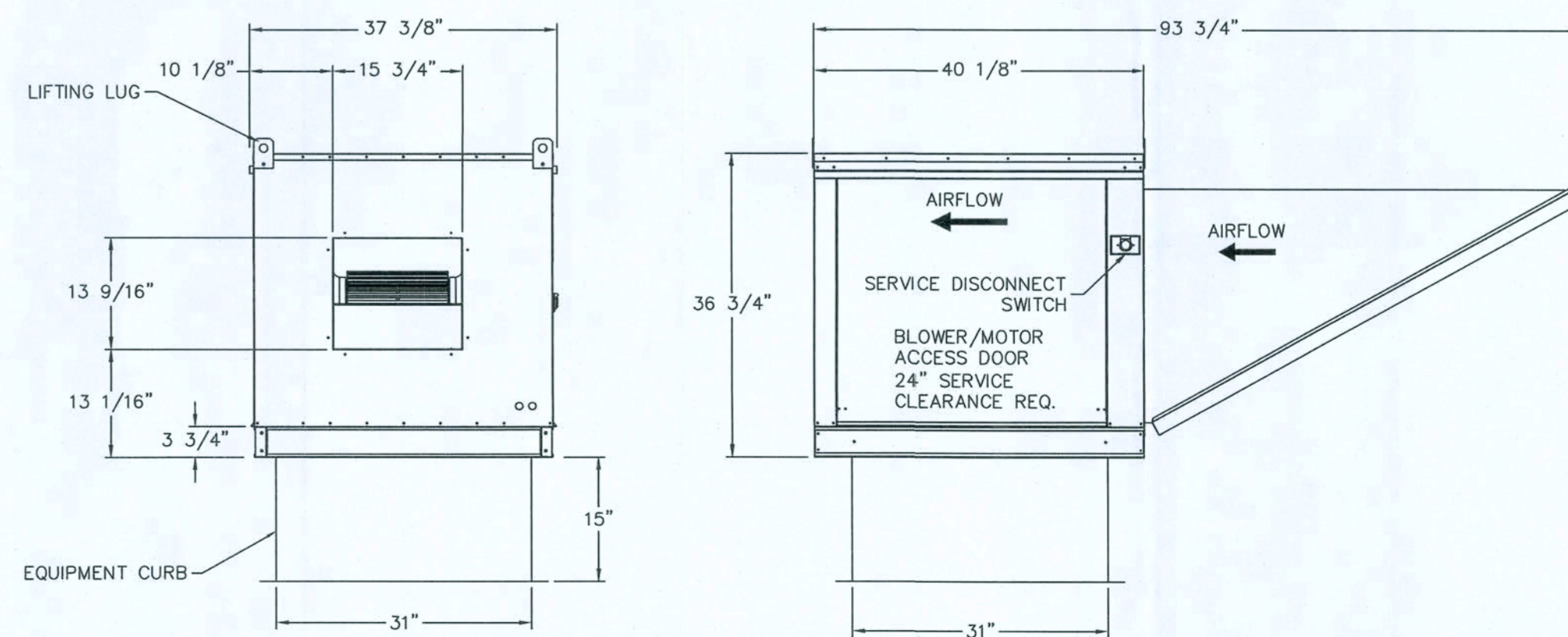
SPECIFICATIONS

THE RESTAURANT FIRE SUPPRESSION SYSTEM SHALL BE THE PRE-ENGINEERED TYPE WITH A FIXED NOZZLE AGENT DISTRIBUTION NETWORK. IT SHALL BE LISTED WITH UNDERWRITERS LABORATORIES, INC. (UL)

THE SYSTEM SHALL BE CAPABLE OF AUTOMATIC DETECTION AND ACTUATION WITH LOCAL OR REMOTE MANUAL ACTUATION. ACCESSORIES SHALL BE AVAILABLE FOR MECHANICAL OR ELECTRICAL GAS LINE SHUT-OFF APPLICATIONS.

THE EXTINGUISHING AGENT SHALL BE A POTASSIUM CARBONATE, POTASSIUM ACETATE-BASED FORMULATION DESIGNED FOR FLAME KNOCKDOWN AND SECUREMENT OF GREASE RELATED FIRES. IT SHALL BE AVAILABLE IN PLASTIC CONTAINERS WITH INSTRUCTIONS FOR LIQUID AGENT HANDLING AND USAGE.

THE REGULATED RELEASE MECHANISM SHALL BE COMPATIBLE WITH A FUSIBLE LINK DETECTION SYSTEM. THE FUSIBLE LINK SHALL BE SELECTED AND INSTALLED ACCORDING TO THE OPERATING TEMPERATURE IN THE VENTILATING SYSTEM. THE FUSIBLE LINK SHALL BE SUPPORTED BY A DETECTOR BRACKET/LINKAGE ASSEMBLY.



HVAC PLAN
1/4" = 1'-0"

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ENGINEERS-ARCHITECTS
P.O. BOX 977
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RICHARD E. CORBURN PE
E-35860

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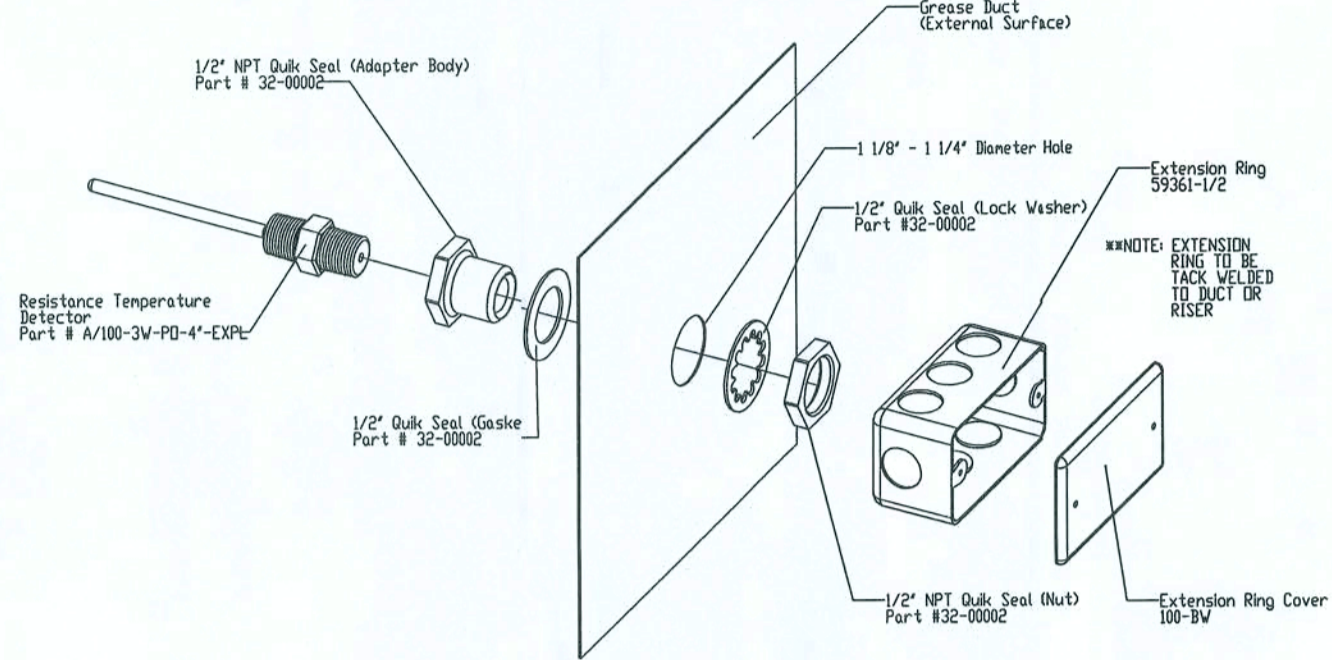
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ELECTRICAL PACKAGES

NO.	TAG	PACKAGE #	LOCATION	SWITCHES		ROOFTOP STARTERS	OPTION	FANS CONTROLLED				
				LOCATION	QUANTITY			TYPE	#	H.P.	VOL	FLA
1		EMS11102	Utility Cabinet Left	Utility Cabinet Left	1 Light		Exhaust in Fire	Exhaust	3	1.500	208 ₃	4.7
				Hood # 1	1 Fan 1 Other			Supply	3	1.000	208 ₃	3.3

RTD SENSOR INSTALLATION

NOTES: One RTD per Exhaust Fan
RTD has 3 wires that connect to ctrl cabinet



The temperature interlock control package complies with IMC 2006 507.2.1.1 by interlocking with cooking appliances through means of a heat sensor to automatically activate exhaust fans during cooking operations.

Model: EMS Series

Certifications: Controls shall be listed by ETL (UL 508A).

Application: The Energy Management System (EMS) is capable of saving energy during idle cooking periods. The EMS is designed to automatically reduce exhaust and supply airflow quantities while ensuring hood performance is maintained. The EMS uses high and low speeds that shall be adjusted by variable frequency drives. A temperature switch in the exhaust duct shall control airflow set points and modulates the fans during cooking operation to maximize energy saving. A 100% airflow override button shall be supplied with an adjustable timer.

Construction: The control interface shall include (1) fan switch, (1) hood light switch, (1) 100% airflow override push button and indicator lights. Indicator lights shall include a "power" light, a "fans on" light, and a "100% airflow override" light. The control interface shall be screen printed on stainless steel and be able to be installed on the face of the hood, face of the utility cabinet, or on the face of the control enclosure. The control enclosure shall be NEMA 1 rated and listed for installation inside the exhaust hood utility cabinet. The control enclosure may be constructed of stainless steel or painted steel.

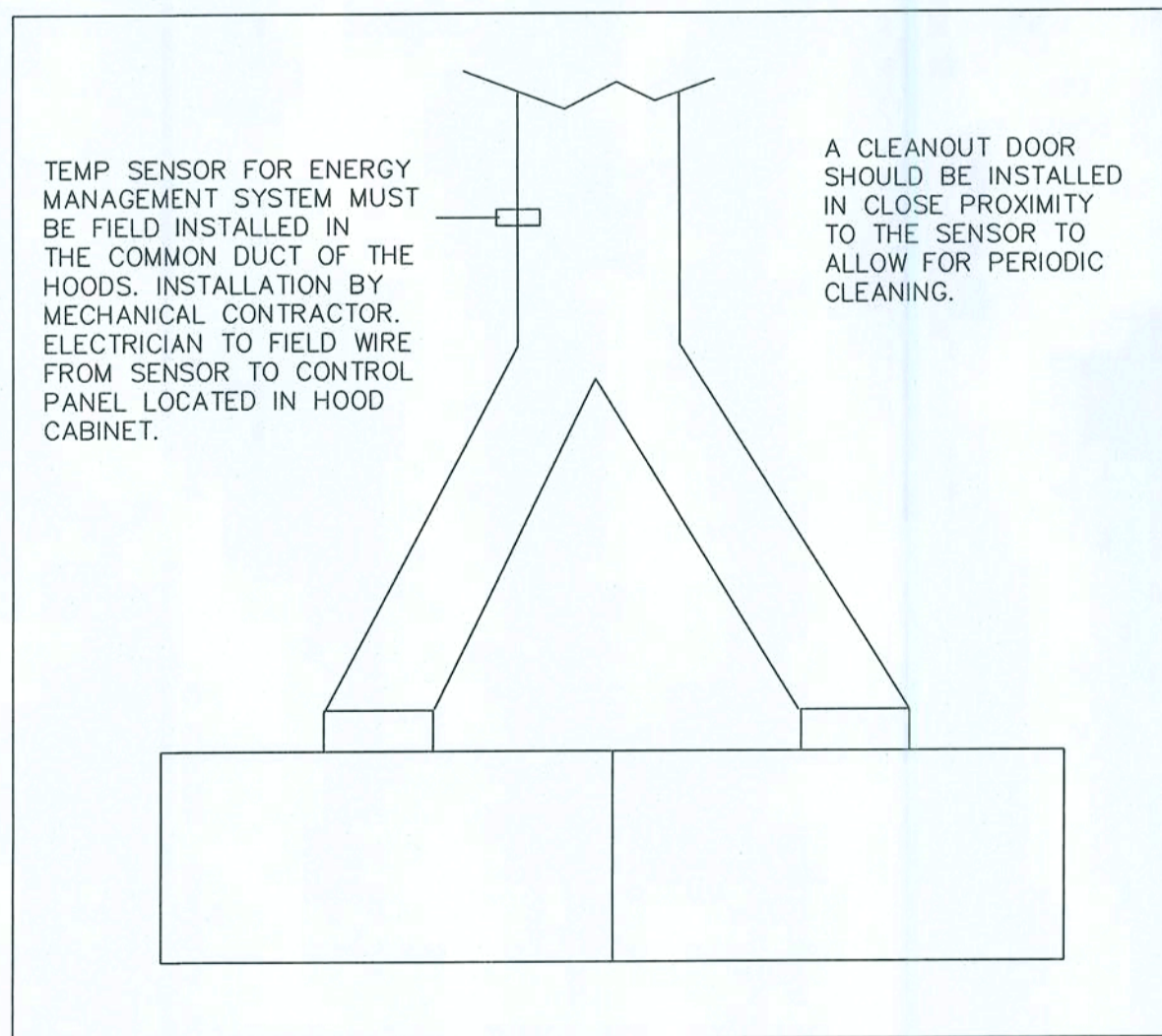
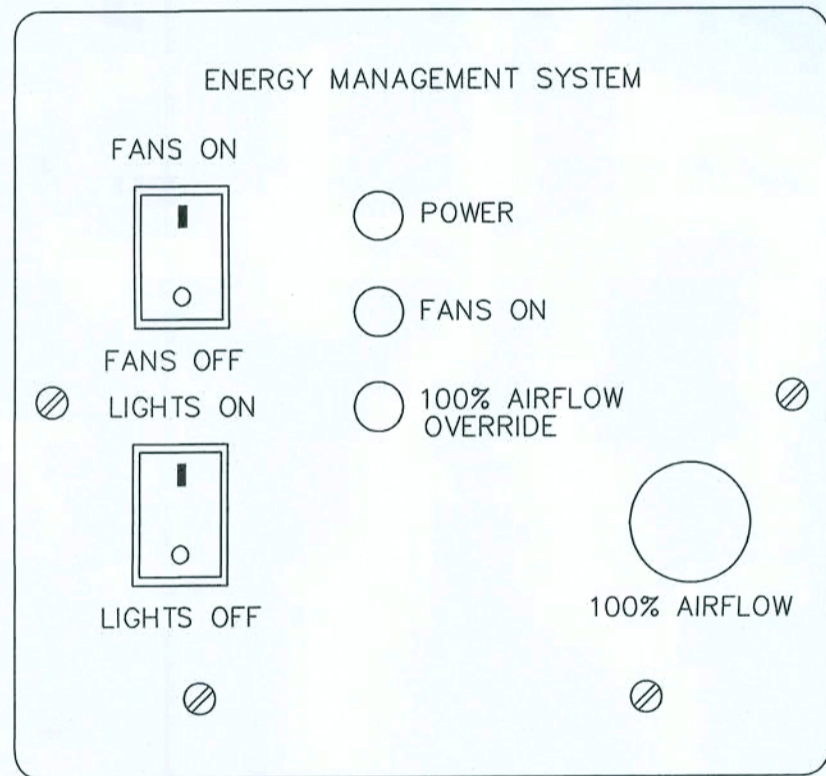
Variable frequency drives shall allow full adjustment of high speed and low speed airflows for proper kitchen balance. Drives shall contain motor thermal overload protection and control inputs for up to 7 preset speeds. Acceleration and deceleration times shall be fully adjustable as well as fan speed at each of the 7 different inputs. Drive shall also allow for a minimum and maximum frequency set-point. Drives are capable of controlling up to 5 HP each.

Adjustable temperature switch shall be mounted in the exhaust hood riser. Temperature probe shall be constructed of Stainless Steel. Temperature switch shall be factory set at 130°F for 600°F cooking applications and 90°F for 400°F cooking applications. The temperature sensor is fully modulating and adjusts on temperature changes. The riser mounted temperature sensor constantly monitors the exhaust air temperature and works in conjunction with a panel mounted temperature controller to modulate the system based on the temperature, therefore maximizing energy savings.

The timer shall contain one instantaneous contact and one delayed contact. Time shall be adjustable from .05 seconds to 30 days. Timer is energized with the 100% flow Override button. When button is depressed, time starts and fans go to high speed. On timeout, fans return to low speed or speed dictated by temperature switch.

The panels include color coded wiring with as-built wiring diagrams, and spade terminals controlled by the fire system micro switch. The panel is factory pre-wired to shut down supply fans in a fire condition. There is also a factory pre-wire option to turn on the exhaust fans in a fire condition (if required).

TYPICAL INTERFACE CONTROL



TEMP SENSOR FOR ENERGY MANAGEMENT SYSTEM MUST BE FIELD INSTALLED IN THE COMMON DUCT OF THE HOODS. INSTALLATION BY MECHANICAL CONTRACTOR. ELECTRICIAN TO FIELD WIRE FROM SENSOR TO CONTROL PANEL LOCATED IN HOOD CABINET.

A CLEANOUT DOOR SHOULD BE INSTALLED IN CLOSE PROXIMITY TO THE SENSOR TO ALLOW FOR PERIODIC CLEANING.

MODULATING EMS INSTALLATION

JOB NAME S&S 29

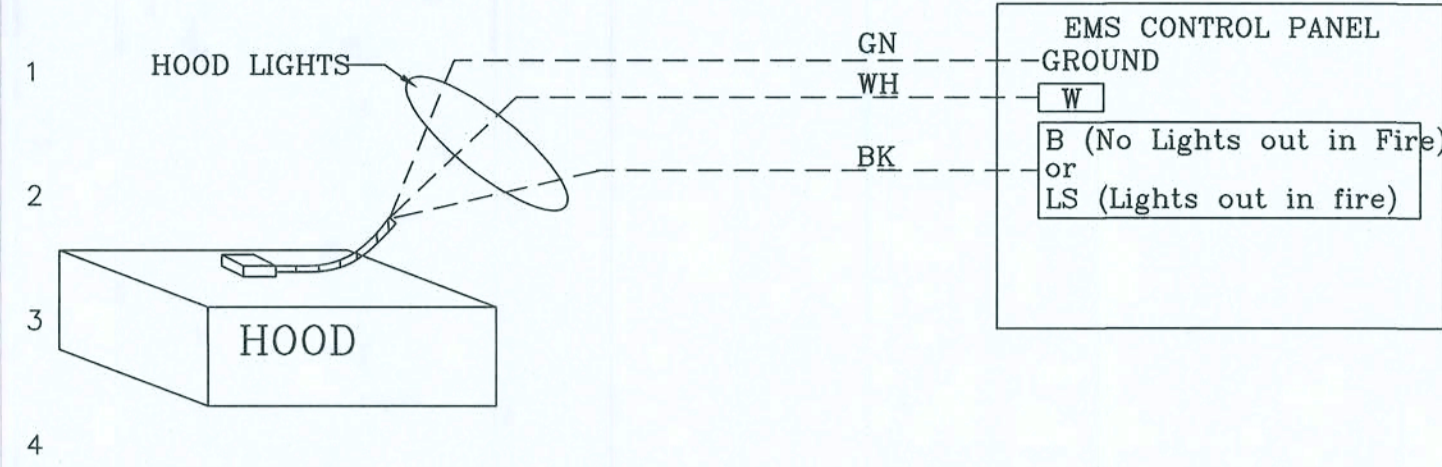
DATE 2/8/2010

DRAWING NUMBER EMS11102-1097974-#1-1

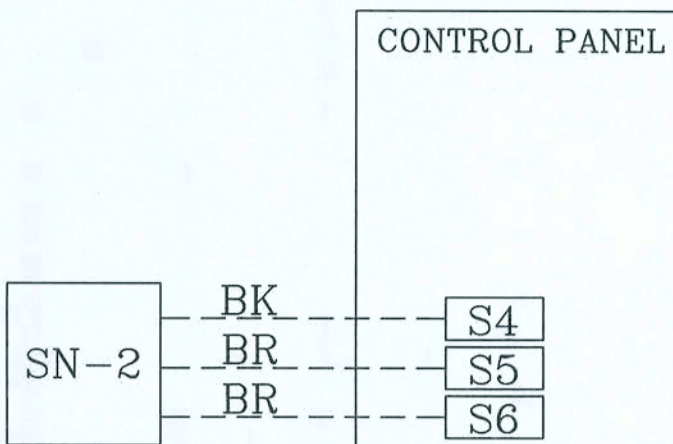
JOB NUMBER 1097974

MODEL EMS11102

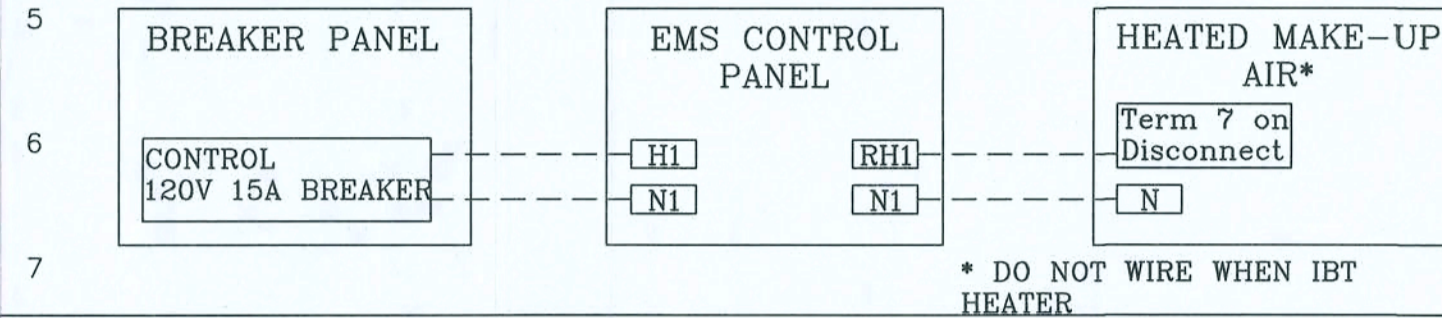
HOOD TO CONTROL PANEL



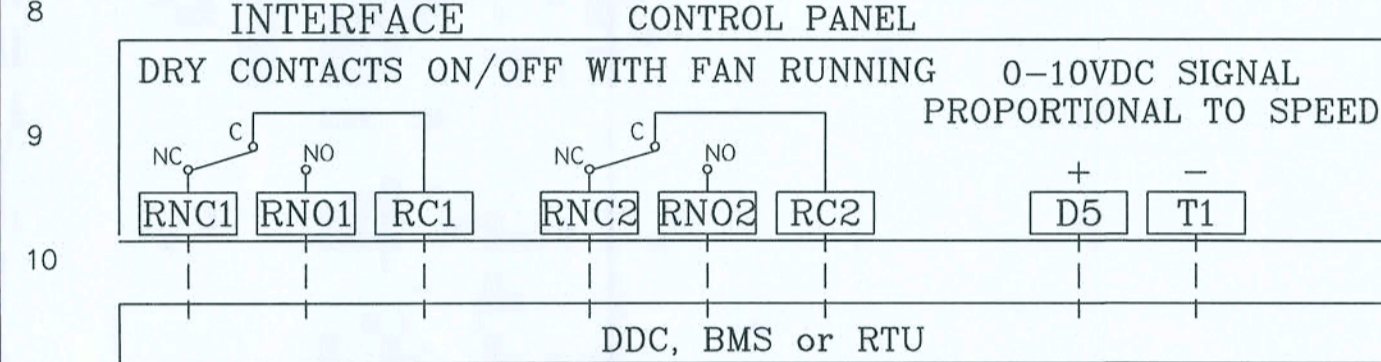
TEMPERATURE SENSOR WIRING (IF FIELD INSTALLED)



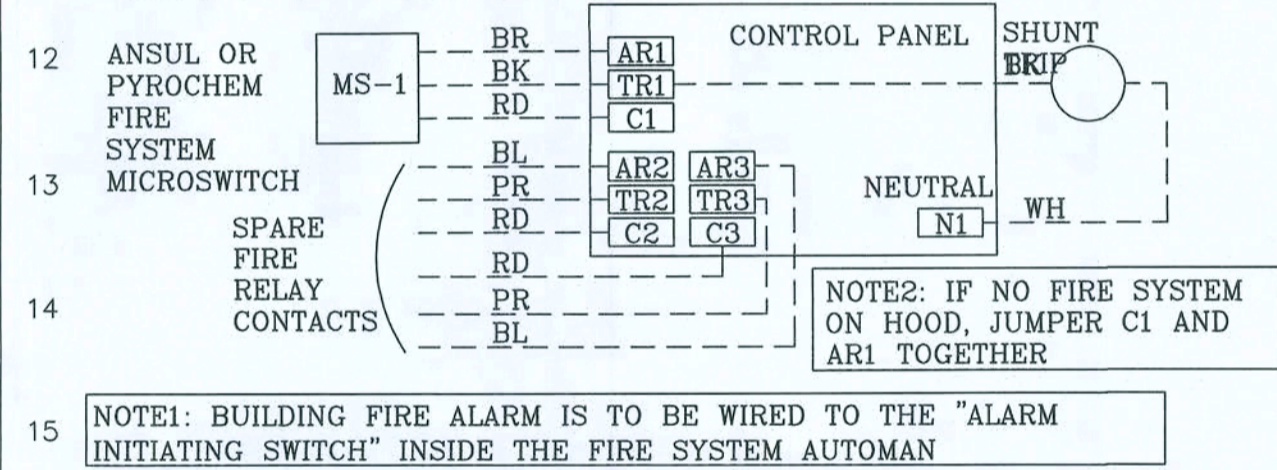
POWER FEED FOR CONTROLS AND LIGHTING



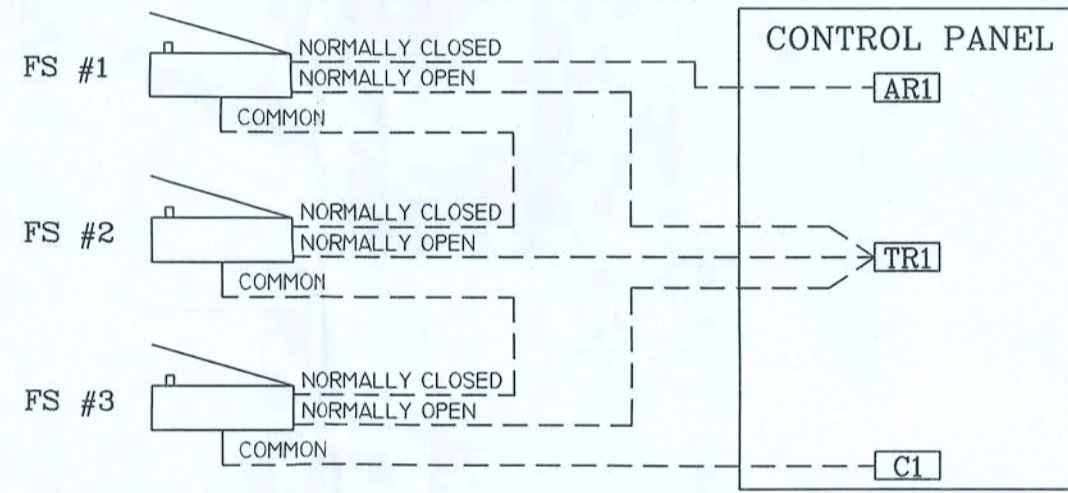
DDC, BUILDING MANAGEMENT OR RTU INTERFACE



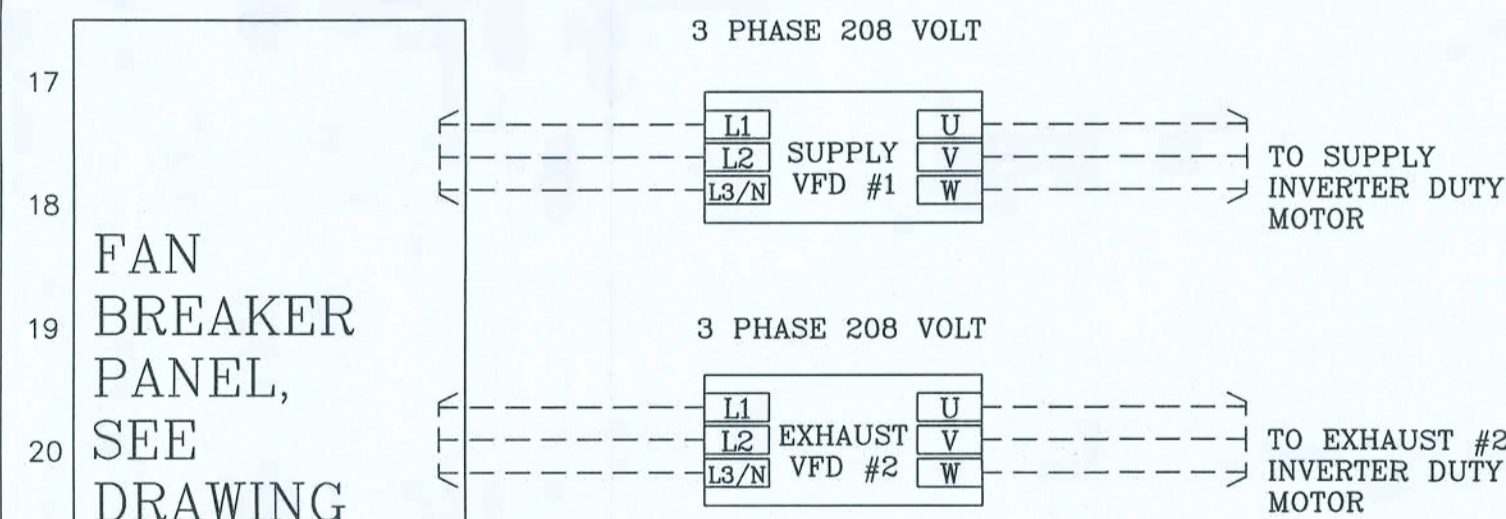
FIRE SYSTEM MICROSWITCH WIRING TO CONTROL PANEL



MICRO-SWITCHES WIRING WHEN MULTIPLE FIRE SYSTEMS CONNECTED TO ONE EMS PANEL (3 SHOWN HERE)



FAN WIRING TO CONTROL PANEL



NOTES

--- DENOTES FIELD WIRING
--- DENOTES INTERNAL WIRING

WIRE COLOR

BK - BLACK YW - YELLOW
BL - BLUE GR - GRAY
BR - BROWN PR - PURPLE
OR - ORANGE OR/BL - ORANGE/BLUE
RD - RED (STRIPE)
WH - WHITE BL/RD - BLUE/RED
GN - GREEN (STRIPE)
RD/GN - RED/GREEN
(STRIPE)

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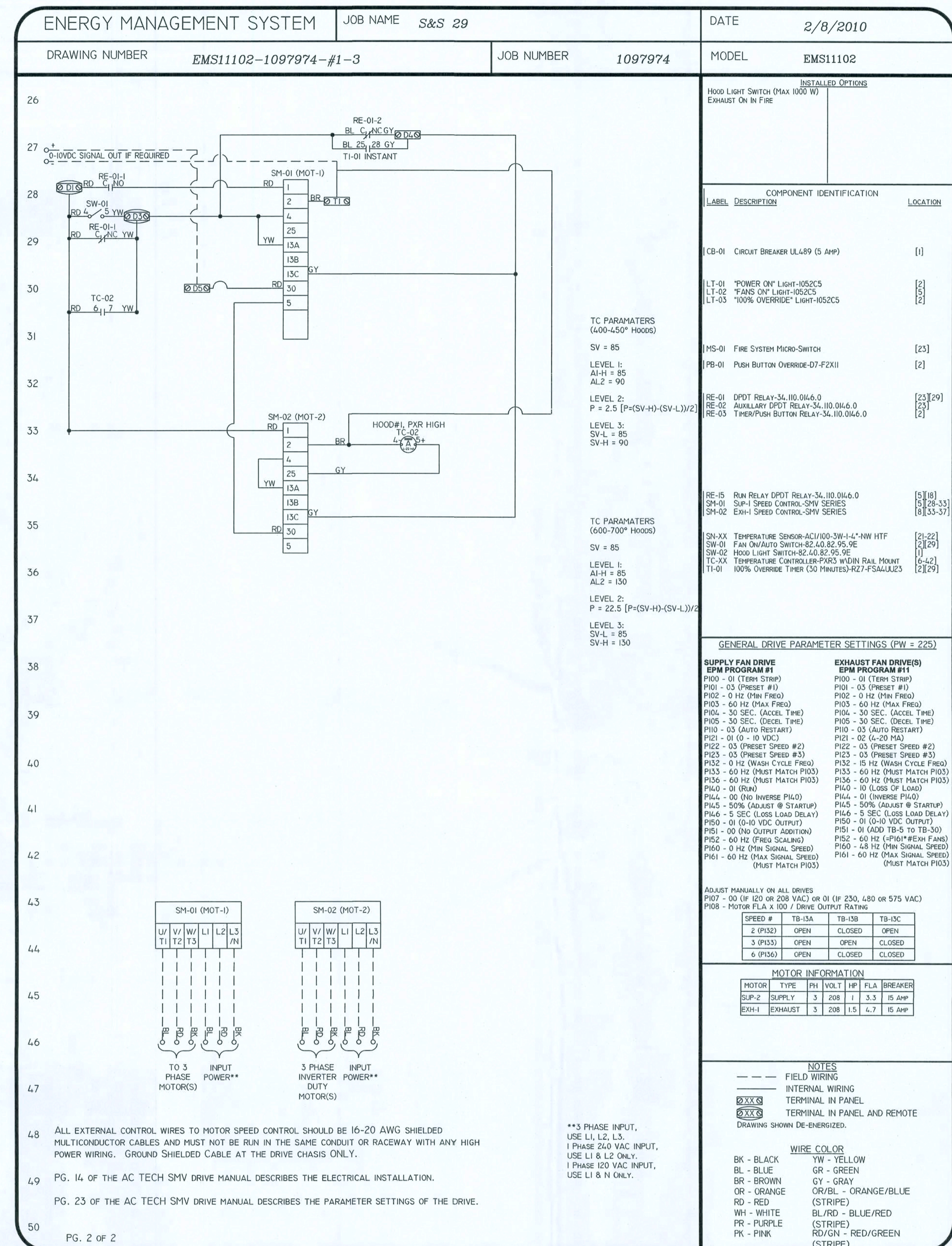
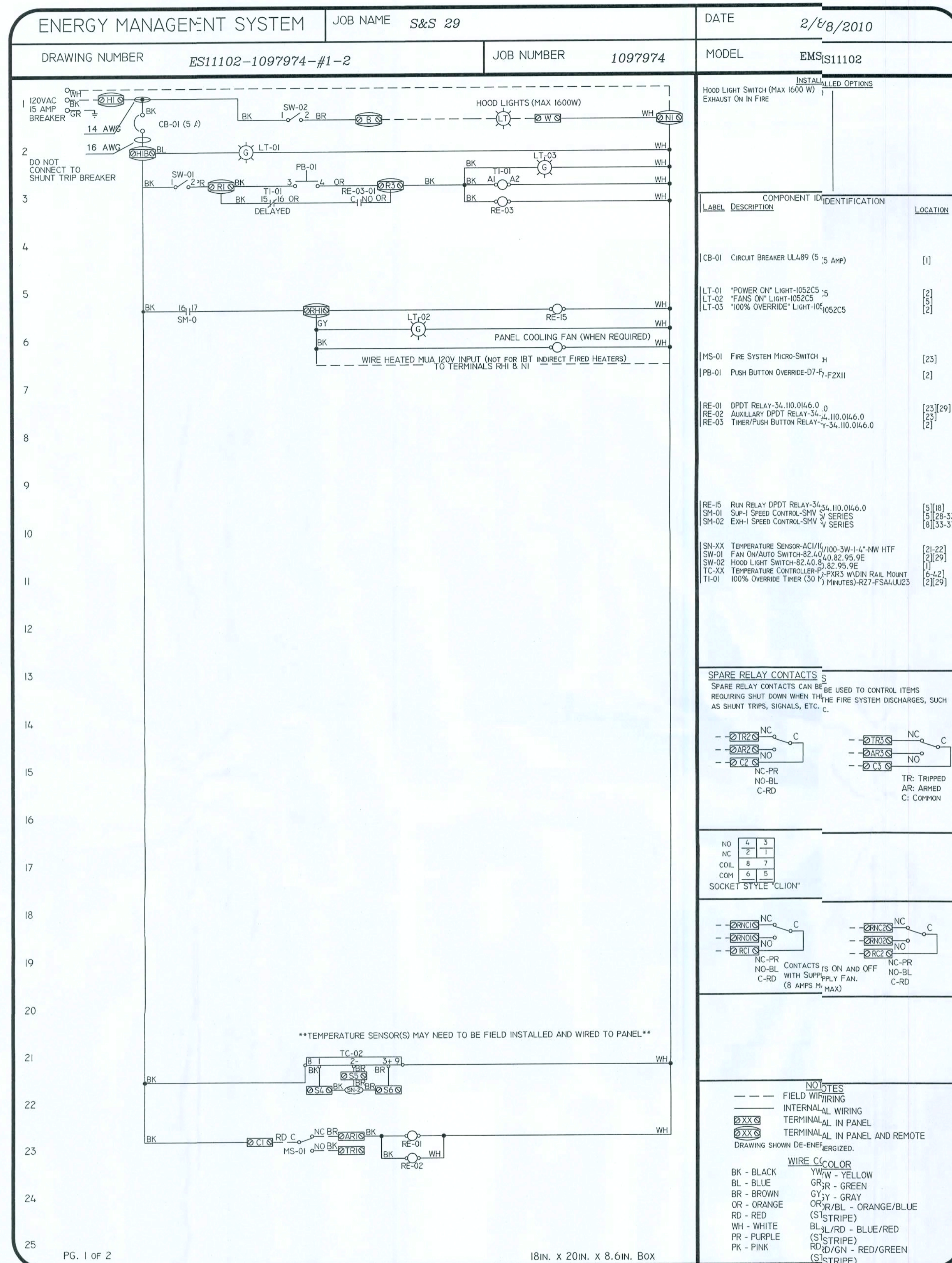
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OF SHEETS



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E-32820

DATE
2/12/16

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F
HETS

HVAC SPECIFICATIONS

A. It is the intent of these specifications to define the work and materials typically installed by a Mechanical Contractor. However, it is not intended to define a subcontract between the Mechanical Contractor and the General Contractor. The General Contractor is responsible for the entire project and any questions regarding scope of work shall be directed to the General Contractor.

B. Work shall include all labor, materials, fixtures, equipment, tools and service necessary for installation, testing and adjusting of all mechanical systems shall be furnished and installed in compliance with the Drawings, Specifications, and any Addenda thereto.

C. Drawings and Specifications shall be understood to cover, according to their intent and meaning, complete mechanical systems. Work shown and not specified, or work specified and not shown shall be performed as though mentioned in both.

D. Minor items and accessories reasonably inferred as necessary for the complete and proper operation of any system shall be provided by contractor or subcontractor for such system whether or not they are specifically called for.

E. Before submitting a bid, the Mechanical Contractor is to coordinate with the General Contractor to ascertain, in detail, the division of work, and the extent of performance other subs and the General Contractor.

F. All work shall be performed or installed in strict accordance with Florida Building Code 2001, Mechanical w/ 2008 and 2009 Supplements and all applicable rules, regulations and codes of local state and Federal Governments having law jurisdiction, and each contractor and subcontractor shall be responsible for such compliance.

G. Fees for permits, inspections, patent use, royalties, etc. shall be paid by the contractor.

H. All systems shall be tested for proper operation, rotation air supply, water supply, pressures, flows, balance, vibration, and appropriate interlocks as required by these specifications or manufacturers' recommendations.

I. All work shall be installed in accordance with the appropriate codes and satisfy the local inspector having jurisdiction.

J. Upon completion of each part of the mechanical system, the contractor shall demonstrate to the Engineer that each item on that system is installed with proper covers, safeties, controls, etc., and that all are in proper working order.

K. A set of "red-lined" mechanical drawings shall be carefully maintained at the job site. Actual conditions are to be put on the drawings in red on a daily basis so the drawings will continuously show locations and routings of piping, ducts, grilles, equipment, valves, and any equipment specified on the drawings or in these specifications.

L. Equipment and materials shall be new and meet or exceed specification requirements.

1. All products shall be current model for which replacement parts are available.

M. Acceptable manufacturers are listed; additional manufacturers may request approval for their products up to 10 days in advance of bid. Engineer may require supplemental information prior to accepting or rejecting the alternate.

N. All work shall be performed in compliance with OSHA regulations.

O. Shop drawings and product data shall be submitted on all equipment, fixtures, etc.

1. Submittals shall include all equipment to be installed by the subcontractor and all submittals must be made at same time.

2. Each package must have the General Contractors review stamp prior to submittal.

3. The Engineer will review one submittal and one resubmittal; subsequent resubmittals may require a review charge to be paid by subcontractor.

4. Shop drawings shall be labeled in the same designation as the drawings.

P. Job conditions shall be determined prior to bidding in the following manner:

1. Site visit to determine:

a. Existing conditions.

b. How and where materials will be delivered and stored.

c. Special problems encountered during construction.

2. Examine all Contract Drawings and Specifications to determine:

a. Type of construction to be used.

b. How construction or work will affect the work of this Section.

c. Nature and extent of work of other trades.

Q. Failure to determine existing conditions or nature of construction will not be considered as a basis for granting additional compensation.

R. Installation:

1. Contract Drawings show the arrangements and sizes of principal apparatus and devices to be provided under this Contract and connection thereto. These shall be followed as closely as actual building construction will permit.

2. Dimensions of work as indicated on Plans are not guaranteed to be as-built dimensions.

3. No measurements shall be scaled from Drawings and used as definite dimensions for layout or fitting work in place.

4. Layout of equipment, as shown on the plans, shall be checked and exact location determined by dimension if equipment approved by the Architect.

5. Consult the Drawings for all dimensions, locations of partitions, sizes of structural member, foundations, etc.

6. Do not make final layouts until shop or equipment drawings are approved and job conditions verified.

7. Mechanical reference symbols are given on the mechanical legend on the drawings.

S. Rough-in:

1. Work included:

a. Contractor shall rough-in for all equipment, fixtures, etc., in building whether or not such equipment is furnished by this Contractor or by Owner.

2. Method:

a. Determine in advance the location and size of all openings and chases necessary for proper installation of all work and have openings and chases provided during construction.

b. Install all inserts for hangers and supports of mechanical work and equipment work as general construction progresses.

c. Rough-in openings in masonry or stud walls shall be cut, not broken or chiseled.

d. Sleeves shall be required at all points where piping passes through concrete walls, slabs or masonry walls; sleeves installed below grade or where subject to high water conditions shall be installed watertight.

T. Coordination:

1. Work shall be coordinated between all Contractors, Subcontractors, Installers, Suppliers, Trades, etc., to:

a. Insure a neatly fitted installation.

b. Determine the nature and extent of the work of others.

c. Eliminate interferences.

d. Maintain minimum headroom and clearances.

2. Any interference which develops or is foreseen and cannot be resolved by the affected trades, etc. shall be handled as follows:

a. Cease installation of that portion of the work which is in conflict as no additional compensation will be allowed for any relocation, etc.

b. Continue work only on other portions of the work which are not in conflict.

c. Notify the Architect immediately.

d. Architect's decision shall be final as to any relocation, rerouting, removal, etc.

e. No additional compensation will be allowed for removal, relocation, repairs or changes required by interferences.

U. Clear away all debris, surplus materials, etc., resulting from work on operations, leaving job and equipment in clean first-class condition.

V. Clean all rotating equipment, ducts, piping, etc., and leave them in a ready-to-use condition.

W. Where factory finish is provided on equipment, all marred or damaged surfaces shall be touched-up or refinished hereunder as approved.

X. Thoroughly clean all items of equipment, leaving them in first-class condition.

Y. Wipe clean or wash if necessary air surfaces of all coils, fan housings, fan wheels, fan motors, air unit plenums, and all air filters.

Z. All pumps, motors, fans and other rotating equipment shall be stored at Site with openings bearing, etc., covered to exclude dust and moisture; all stockpiled conduit shall be placed on dunnage and protected from weather, from entry of foreign materials.

BALANCING OF AIR SYSTEMS

A. Balance and adjust each air distribution system shown on the Drawings.

B. Perform work in accordance with procedures and standards described in SMACNA Balancing and Adjustment Manual.

C. Balancing shall be done by a certified balancing firm independent of the Mechanical Contractor.

D. Reports shall be made on SMACNA forms.

E. Submit five (5) copies for approval and record.

F. Examine HVAC units to see that they are free from obstructions.

G. Open all dampers and grilles.

H. Check lubrication of all moving equipment.

I. Check for proper installation of filters.

J. Perform other inspection and maintenance activities necessary for proper operation of systems.

K. Fuse sizes and thermal overload heaters shall be checked against each motor nameplate.

L. The amperage shall be read at each electrical motor to determine the load imposed on it.

M. Adjustment and Balance:

1. Adjust variable type pulleys, volume dampers, control dampers, etc. to provide correct volumes to main trunk lines.

2. Check and adjust outside air quantities as required.

3. Adjust air extractors and manual balancing dampers to supply correct air volume to each main branch duct from main trunk lines.

4. Adjust manual balancing dampers to supply correct volume to each individual branch duct.

5. Use terminal registers only for minimal adjustment of air flows, i.e. less than 5% of air volume.

6. Adjust grilles and diffusers for proper air flow patterns.

7. Air conditioning units shall be placed in operation and both wet and dry bulb temperature taken at one-hour intervals to determine the amount of cooling being accomplished and to indicate adjustments needed.

8. After spaces have been brought down to design temperatures and equipment is functioning properly, air shall be rebalanced if necessary by means of calibrated thermometers placed in each room and in open spaces not over 20' apart. There shall be no deviation in temperature of more than 3 F. throughout the space cooled.

9. A thorough check shall be made, with an anemometer, of air motion in the occupied space. Any air motion exceeding 50 fpm shall be remedied.

COPPER PIPE

A. Refrigerant

1. ACR Copper

2. All refrigerant pipe and fittings having an external or internal working pressure greater than 15 psig shall comply with ANSI Code for Pressure Piping where applicable.

3. Joints

a. Solder using Silver solder or "Sil-Fos."

b. Compression fittings may be used at equipment connections.

4. Fittings

a. Wrought copper

b. Approved compression type brass.

PLASTIC PIPE AND FITTINGS

A. Air Conditioning condensate drains

1. PVC

a. Schedule 40.

b. Type 1, Grade 1.

2. Joints

a. Bonded joints using adhesive per manufacturer's recommendations

3. Fittings

a. PVC - ASTM D-2665-69

Packaged Heat Pump Systems HP-1 & HP-2

A. Packaged Heat Pump Unit with reverse cycle and heat strip.

B. Acceptable Manufacturers

1. Trane

2. Carrier

3. Lennox

C. Evaporator Blower

1. Airflow as indicated on drawings.

2. Fan shall be direct - drive, forward-curved, double inlet, statically and dynamically balanced.

3. Fan motor shall be resiliently mounted and shall be easily removable for service.

4. Fan motor shall be permanent - split-capacitor type with integral overload protection, high - efficiency, Florida Energy Code Minimum.

5. Cooling coil shall have aluminum fins mechanically bonded to copper tubing. Coil shall have factory installed refrigerant metering devices.

D. Compressor and Condensing Section

1. Outdoor unit shall be designed for use with Refrigerant R410 and contain sufficient charges (R22) for complete system. Brass service valves with refrigerant line fittings and service ports shall be located on exterior of unit.

2. Outdoor coil shall be constructed with aluminum fins mechanically bonded to non-ferrous tubing. Factory installed coil refrigerant metering device shall be mounted on unit liquid service valve. Metering device internal components shall be removable for cleaning or replacement.

3. Condenser Fan unit fan shall be propeller type, direct driven, and arranged for vertical air discharge. Fan motor shall be factory lubricated, inherently protected and resiliently mounted.

4. Compressor shall be of the welded-hermetic type with internal vibration isolation and shall be covered with a shield to muffle operating sound. Compressor motor shall have both thermal and current sensitive overload devices. Compressor shall be equipped with a crank-case heater and have internal high-pressure protection.

5. Controls shall be factory wired and located in a readily accessible location. Controls and protective devices shall include a liquid line low pressure switch, suction line accumulator and pressure relief device. Control wiring terminal board shall be designed to match indoor unit terminal board and accessory thermostat terminals for standardized point-to-point connection.

E. Resistance Heater:

1. Heaters shall be wired for the number of stages of operation indicated on the Drawings.

2. Heaters shall be equipped with thermal and current overload devices as required by equipment listings and applicable codes.

F. Economizer Hood and O.A. Intake with Enthalpy Controller--

1. O. A. Damper shall modulate to full open position to provide maximum use O.A. for cooling when Enthalpy Controller settings are within set points.

G. Refer to Mechanical Equipment Schedule for Model Numbers.

EXHAUST FANS

A. Wall mounted spun aluminum dome and ducted to the outside.

B. Meet the specification for air delivery at static pressure as specified on the Equipment Schedule.

C. Meet the noise criteria (if specified on Schedule).

D. Be of the manufacture and model number specified in the Equipment Schedule or equal.

E. Shall be UL listed.

F. Acceptable Manufacturers

1. Breidert

2. Carnes

3. Greenheck

G. General

1. Acoustically insulated steel housing

2. Spun Aluminum Dome.

3. Adjustable mounting brackets

4. Automatic backdraft damper at the fan intake.

5. Lifetime lubricated motor

6. Terminal box on housing with cord, plug and receptacle inside the housing.

7. Fan motor and wheel shall be removable without removing entire fan housing.

8. Provide speed control on direct drive fan.

GREASE EXHAUST HOOD:

A. APPROVED:

a. HOOD SHALL BE MANUFACTURED IN ACCORDANCE WITH NFPA #46 AND NSF

b. CONSTRUCTION MATERIAL - TYPE 304 STAINLESS STEEL, 16 GAUGE AND 18 GAUGE.

c. SUPPLY MAKE-UP AIR AND EXHAUST ON DUCT COLLARS.

d. Baffle type FILTERS meeting NFPA #46 AND CLASSIFIED BY UL.

e. LIQUID VAPOR TRAP.

f. HOOD LIGHTS WITH GLOBES AND GUARDS.

g. HOOD DESIGN FOR SUPPLY OF 20% MAKE-UP OF OUTSIDE AIR FROM SUPPLY FANS.

h. SPECIFIC HOOD REQUIREMENTS SEE SCHEDULES.

B. KITCHEN HOOD EXHAUST SHALL BE GALVANIZED STEEL, WELDED SEAM, LIQUID TIGHT, MINIMUM 16 GAUGE. EXHAUST DUCTWORK SHALL COMPLY WITH FLORIDA MECHANICAL CODE AND NFPA #46.

C. HOOD EXHAUST AND MAKE UP FANS SHALL BE UL AND NSF LISTED, SEE SCHEDULE FOR MODEL AND CAPACITY.

D. GREASE EXHAUST HOOD EXTINGUISHING SYSTEM:

1. DESIGNED TO MEET NFPA #46 AND FLORIDA BUILDING CODE 2001 MECHANICAL w/ 2008 & 2009 SUPPLEMENTS AND ALL APPLICABLE RULES, REGULATIONS AND CODES OF LOCAL STATE AND FEDERAL GOVERNMENTS HAVING LAW JURISDICTION, AND EACH CONTRACTOR AND SUBCONTRACTOR SHALL BE RESPONSIBLE FOR SUCH COMPLIANCE.

2. SUPPLEMENTS

3. AUTOMATIC, FIXED PIPES EXTINGUISHING SYSTEM

4. GALVANIZED STEEL PIPE SIZED PER MANUFACTURER'S INSTRUCTIONS.

5. AUTOMATIC AND MANUAL TRIP DEVICE.

6. CONTRACTS TO SHUNT TRIP BREAKER OF KITCHEN EQUIPMENT BREAKERS AND CLOSE GAS SOLENOID VALVE.

7. FIRE EXTINGUISHING SYSTEM SHALL BE INSTALLED IN ACCORDANCE WITH THEIR LISTING AND WITH MANUFACTURER'S INSTRUCTIONS.

8. SYSTEM SHALL BE ACCEPTABLE TO THE FIRE MARSHAL'S OFFICE AND BUILDING DEPARTMENT.

9. SYSTEM SHALL BE DRY CHEMICAL OR ANSUL.

10. TRIP MECHANISM, MANUAL OR AUTOMATIC, SHALL HAVE AUXILIARY CONTACTS

11. CONTRACTOR SHALL PROVIDE FIRE SUPPRESSION SYSTEM SHOP DRAWINGS TO SATISFY BUILDING OFFICIALS.

E. GREASE HOOD EXHAUST DUCT FIRE WRAP

a. WRAP ALL GREASE HOOD EXHAUST DUCT WITH THERMAL CERAMICS "FASTWRAP+", 1 1/2" THICK TO PROVIDE FIRE RESISTANCE RATING IN LIEU OF 1 HOUR CHASE. FIRE WRAP SHALL BE RATED AT 2000 ° F AND WILL PROTECT COMBUSTIBLES AT DUCT CLEARANCE.

DUCTWORK

A. All Supply Ductwork shall be low pressure sheetmetal ductwork.

1. External insulation shall be installed on all duct, 2" fiberglass duct wrap.

B. All general exhaust ductwork shall be low pressure sheet metal.

1. Insulation not required

C. RAW Outdoor air ductwork in shall be low-pressure metal.

1. Insulation not required

D. Precondition Ventilation air shall be low pressure sheetmetal

1. External insulation with 2" fiberglass duct wrap.

E. LOW - PRESSURE SHEETMETAL DUCTWORK

1. Except as otherwise specified or detailed on the Drawings, all ductwork shall be constructed in accordance with the Sheet Metal and Air Conditioning Contractor's National Association (SMACNA)

2. Duct systems shall be complete, including all duct fittings, turning vanes, transverse reinforcement hangers, supports, etc., as detailed on the Drawings or in the standards.

3. Provide and install balancing dampers or adjustable splitters at all branch ducts, and where required for balancing the system.

4. Each damper shall be adjustable with an approved quadrant or 1 regulator. Dampers to be opposed blade type for ducts over 12" in any dimension, for ducts 12" single blade is acceptable except for outdoor air intakes which shall be low-leakage opposed blade.

5. Dimensions shown are net inside dimensions (including insulation).

6. Galvanized sheetmetal duct shall conform to the following thicknesses

a. Largest dimension Gauge

0-30 inches 24

30-54 inches 22

55-84 inches 20

over 84 inches 18

F. KITCHEN HOOD EXHAUST SHALL BE GALVANIZED STEEL, WELDED SEAM, LIQUID TIGHT, MINIMUM 16 GAUGE. EXHAUST DUCTWORK SHALL COMPLY WITH FLORIDA BUILDING CODE 2001 -MECHANICAL WITH 2008 AND 2009 SUPPLEMENTS AND NFPA #46.

G. Plenums shall be constructed and tested in accordance with SMACNA STANDARDS

H. FLEXIBLE CONNECTIONS

1. Provide between duct system and air moving equipment

2. Connection shall be made with not less than 4" wide flexible collar using Ventglas 30-ounce neoprene coated glass fabric.

I. Where construction methods for various items are not indicated on the Drawings or specified herein, all such work shall be fabricated and installed in strict accordance with the recognized methods, metal gauges, hanging procedures, access door and accessory installation, etc., as outlined in the latest edition of SMACNA'S Duct Manual and Sheet Metal Construction for Ventilating and Air Conditioning System.

J. Install all ductwork generally as shown on the drawings and as required by SMACNA Manual.

K. Sheetmetal

1. Low pressure ductwork and fittings shall be made tight for minimum air leakage.

2. Duct tape shall not be used to seal joints.

3. All ductwork, except in equipment rooms shall be stream lined in construction spaces above ceilings, in partitions, chases, etc.

4. Ducts shall be constructed to provide specified air through building without adding noises to the air stream by sudden contractions as sharp edges.

5. Ducts shall be securely fastened to the structure with hangers.

6. Connections:

a. Ducts shall be air tight braced and reinforced to prevent vibration and breathing

b. Seal supply, return, exhaust and outside air ductwork with adhesive sealing compound

c. Exterior ductwork to be housed with metal cover, galvanized or aluminum, or weather proofed using felt and Akap 20 and asphalt mastic (but).

d. Rectangular duct connections shall be made with pocket slip or Bar-s slip not more than 8 ft. apart up to 24 in. largest dimension and not more than 4 ft. apart above 24 in. largest dimension

L. Leakage

1. Contractor shall make necessary repair and shall make duct system ready for a leakage test.

2. Test shall be performed by Test and Balance Contractor.

3. Leakage shall not exceed 1% leakage for high pressure duct and 5% for low pressure duct construction.

DUCT INSULATION

A. Acceptable Manufacturers

1. Johns-Manville

2. CertainTeed

3. Knaf

B. Duct Wrap:

1. 2" inch thick fiberglass - R6 INSTALLED

2. Fireproofed 25 per ASTM E-84

3. Smoke developed 50 per ASTM E-84

4. Factory applied vapor barrier - heavy duty

4 mil vinyl film, class 1, meeting NFPA 90A and 90B, UL rated

5. Product:

a. Johns-Manville "Microclite"

C. Accessories:

1. Insulation shall have the same flamespread and smoke rating as the insulation to which they are applied and meet manufacturer's recommendations.

D. Ductwrap

1. Overlap seams of ductwrap, secure with 4" wide open weave glass fabric and two coats of vapor retarder mastic.

2. Underside of ductwork greater than 24" wide shall also be secured with mechanical fasteners with tape.

3. Pressure tape is not acceptable.

DUCT HANGERS AND SUPPORTS

A. All ductwork for air supply, return, fresh air or exhaust shall be supported by duct hangers, clamps, clips or supports.

B. Acceptable Manufacturers

C. Duct hangers may be a manufactured item or field fabricated as required.

D. Galvanized steel straps

1. Minimum 1/2 inch 16 gauge and one inch wide

2. Trapezoidal hangers

1. Ducts 20 inches to 40 inches largest dimension.

a. Minimum 1 inch x 1 inch x 1/4 inch steel angles.

b. Minimum 1/4 inch threaded rod

2. Ducts above 40 inches largest dimension and plenums

a. Minimum 1 1/2 inch x 1 1/2 inch x 1/4 inch steel angles.

b. Minimum 3/8 inch threaded rod.

E. Supports

1. All ductwork shall be supported from structural building members, i.e. block, beams, columns, purlins, joists, etc.

2. Ductwork shall not be supported from ceiling tile or grids, conduit, mechanical equipment, piping or non-structural steel.

3. Ductwork hangers shall be attached to building steel by bolts, screws, clamps or welding.

F. Hanger Bands

1. Horizontal concealed ductwork up to 20 inches largest dimension shall be supported by one (1) inch x 16 gauge galvanized steel straps at a maximum spacing of 10 ft. and at each elbow or branch takeoff.

2. Bands and spacing shall be at a maximum spacing of 10 feet on horizontal runs and at each elbow or branch takeoff.

a. No nails shall be driven through any ductwork and into floor joists, trusses, etc.

3. Vertical ductwork, all sizes, shall be supported by bands bolted or screwed to walls, studs, etc.

4. Hanger bands shall be bent over one (1) inch from end and turned under corners of rectangular duct.

5. Duct hanger bands shall be fastened with sheet metal screws at six (6) inch intervals up sides and into bottom.

a. Sheet metal screws shall be 3/4 inch so as not to penetrate duct liner completely.

6. Trapezoidal hangers

1. Horizontal ductwork larger than 20 inches largest dimension and all exposed ductwork shall be supported by trapeze type hangers.

2. Trapezoidal hangers shall be at a maximum spacing of 10 feet and at each elbow or branch takeoff.

3. Hanger rods shall be secured to bottom bracing angles with nuts and locknuts.

DUCT ACCESSORIES

A. Air distribution system shall be furnished complete with duct accessories necessary to allow complete air balancing and adjusting of flow and volume.

B. All square duct corners and "T" connections shall be fitted with turning vanes.

C. All branch duct takeoffs shall be fitted with nonadjustable air turning vanes AND manual control dampers, OR adjustable volume extractors which are adjustable from outside the duct.

D. Each grille and diffuser shall be fitted with a manual volume control register at the face of the grille and adjustable from the face of the grille without requiring removal of the grille.

E. Acceptable Manufacturers

1. Barber Colman

2. Titus

3. Properly submitted approved equal

F. Air turning vanes:

1. Multiple radius vanes

2. Steel construction

3. Electrocoated white finish

4. Maximum pressure loss = 20% of velocity head

5. Model number - equal to Barber Colman Models ACOA and ACOF

G. Volume Extractors:

1. Gang operated parallel blade

2. Fully adjustable from wide open to full closed

3. Supply with supporting foot as required for branch takeoffs not in the same plane as trunk lines.

VOLUME DAMPERS

A. All return air and fresh air dampers shall be parallel blade pivot dampers with motorized control where noted.

B. All balancing dampers shall have manual control dampers with positive position locking.

C. Acceptable Manufacturers

1. Prefco Manufacturing Co.

2. Titus

3. Ruskin

D. Parallel Blade Pivot Dampers:

1. Low leakage non-degradable

2. Friction free metal to metal seals incorporated into the blade and frame shapes

3. Galvanized steel frame, 16 gauge

4. Galvanized steel blades, 22 gauge with double-wrapped center and edge forming

5. Maximum leakage - 11 CFM per sq. ft. @ 1 inch S.P.

6. The static pressure loss shall not exceed 0.7" W.G. @ 2000 FPM and 50X modulation

7. Model Number

a. Equal to Prefco Model 5150

FIRE DAMPERS

A. Provide fire dampers at all locations shown or noted on the drawings.

1. Fire dampers shall have only thermally actuated fusible links.

B. Acceptable Manufacturers

1. Prefco Manufacturing Co.

2. Ruskin

3. Titus

C. Dampers - mounted vertically

1. Damper construction shall meet the requirements of NFPA 90A.

2. Type B, low profile, low pressure loss.

3. Blade stack shall only enter the air stream to 4% of the damper height.

4. Damper requires no extra height for duct installation, i.e., there shall be no "top cap."

5. Blades shall be 4-1/2 inch depth - roll formed 21 gauge galvanized steel

6. Frame, E-shaped, one piece roll-formed 21 gauge galvanized steel.

7. Blades rotate, travel and seal on a single central frame track.

8. Classified 1-1/2 hour rating, UL Listed.

9. Fire dampers shall have thermal link.

10. Model

a. Dampers shall be equal to a Prefco "Low Profile B" or approved equal.

D. Dampers - mounted horizontally in ceiling:

1. UL Listed ceiling damper

2. Single or square as required

3. 2 hour rated

4. Single or dual blade depending on duct size

5. Model Number

a. Prefco Model 5650, 5600, or 5660

E. Link:

1. Fusible link rated at 165 Degrees F. release temperature.

DUCT ACCESS PANELS AND TEST HOLES

A. Provide an access panel at each return air and/or fresh air damper which will allow for inspection and cleaning of dampers.

1. Where return and fresh air dampers are located adjacent, one access door is sufficient, providing each damper is accessible.

B. Provide an access panel at each fire damper for resetting and maintenance of each fire and smoke damper.

C. Provide test holes for measurement of air flow, on each branch duct and main trunk line or plenum.

D. Acceptable Manufacturers

1. Penn Ventilator Co.

2. Ruskin

E. Access Doors:

1. Insulated hinged duct access door

2. Standard gauge galvanized steel

3. Continuous piano hinge

4. Gasketed at door frame surface and at frame to duct surface

5. Positive acting cam latch handle

6. Doors shall be of sufficient size to allow access to both sides of dampers

7. If duct width is greater than 36 inches, provide access doors on each side of duct for access to entire dampers.

8. Exception:

a. Where access door must be installed in such a position that hinged opening is not possible, provide door that is completely removable.

b. Removable door shall have cam-locks on both sides

9. Model Numbers:

a. Hinged doors shall be equal to Penn Ventilator Model DAD

b. Non-hinged removable door shall be equal to Penn Ventilator Model DAD-RP.

F. Test Holes

1. Provide a capped access hole in each trunk line or branch duct for insertion of air-flow pitot for flow measurement.

DISPOSABLE FILTERS

A. Provide 1" pleated with perforated metal back for AH-1, AH-2, AH-3, AH-4

B. MERV-7

6 & 8 FOOD STORE NO. 29
BIRLEY & PINEMOUNT ROAD
LAKE CITY, FLORIDA



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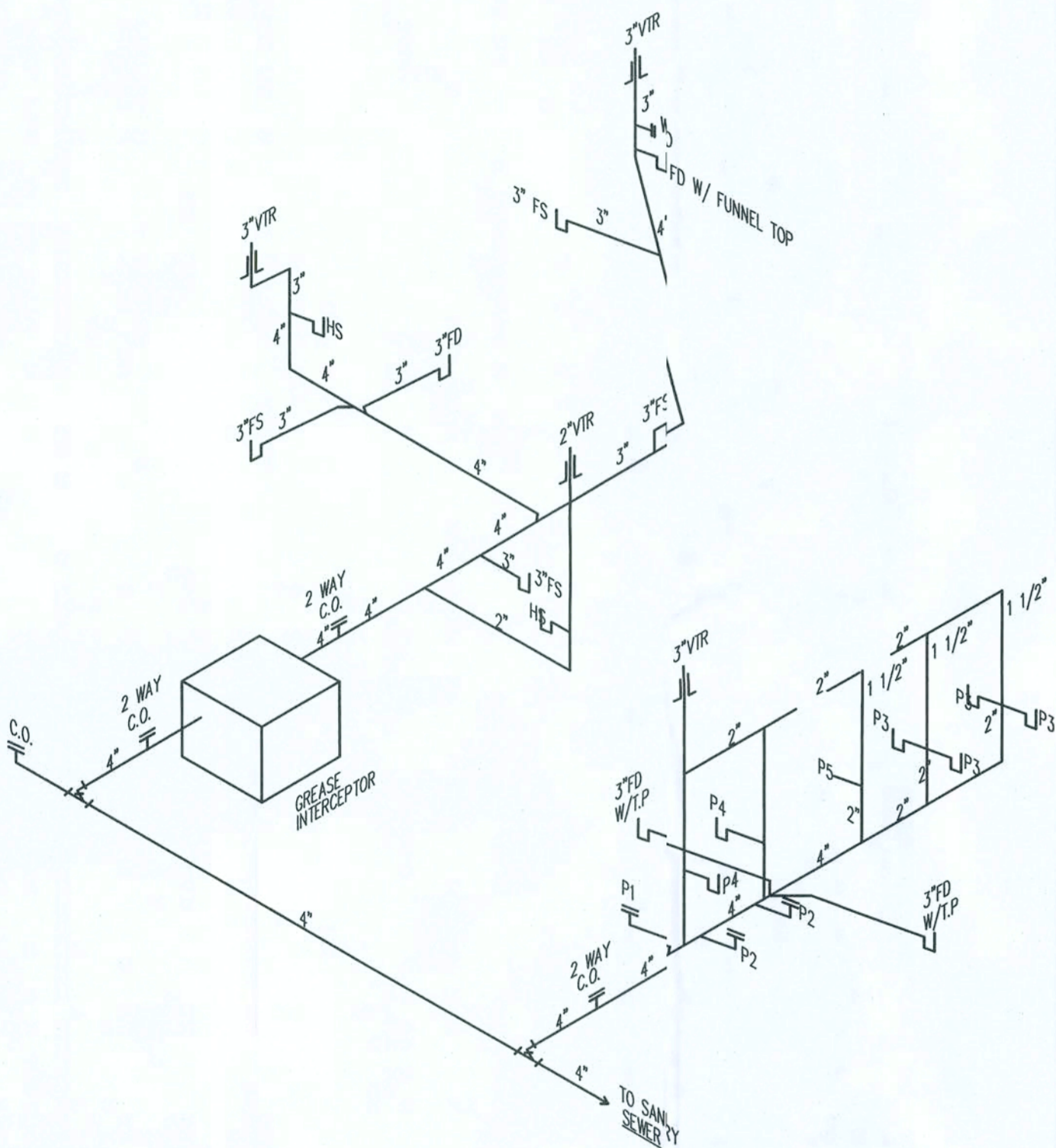
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PLUMBING FIXTURE SCHEDULE													
MARK	DESCRIPTION	MANUFACTURER	MODEL	FITTINGS OR VALVES	SUPPLIES	TRAP	MOUNTING	ACCESSORIES	COLD	HOT	WASTE	VENT	REMARKS
P1	WATERCLOSET	AMERICAN STANDARD	CADET 2168.100 1.6 GPF	BRASS SUPPLIES AND STOPS	—	INTEGRAL	FLOOR	CHURCH #9500C SEAT	1/2"	—	3"	2"	HAN.CAP HEIGHT
P2	WATERCLOSET	AMERICAN STANDARD	CADET 2292.100 1.6 GPF	BRASS SUPPLIES AND STOPS	—	INTEGRAL	FLOOR	CHURCH #9500C SEAT	1/2"	—	3"	2"	STANDARD HEIGHT
P3	DROP-IN LAVATORY	AMERICAN STANDARD	AQUALYN 0476.028	RELIANT 2385.003	BRASS CRAFT 0CR1912/2AZ	CHROME BRASS	COUNTERTOP	GRID STRAINER	1/2"	1/2"	1 1/4"	1 1/4"	HOT TEMP LIMIT STOP
P4	HANDICAP LAVATORY	AMERICAN STANDARD	ROXALYN 0195.073	AMERICAN STANDARD 1340.000 W/ESCUTCHEON	BRASS CRAFT 0CR1912/2AZ	CHROME BRASS	WALLBRACKET	GRID STRAINER	1/2"	CAP	1 1/4"	1 1/4"	SUPPLY W/TRAP INSULATION KIT
P5	URINAL	AMERICAN STANDARD	MAYBROOK 6581.015	SLOAN ROYAL 186-1	—	INTEGRAL	WALLBRACKET		3/4"	—	2"	1 1/2"	MTG.HT. PER ARCH. ELEVATIONS
P6	JANITORY MOP SINK	STERN WILLIAMS	SERVICE CEPTOR SBC-1502	T-15-VB MOP SINK FITTING	—	13"	FLOOR	T-40 MOP HANGER T-35 HOSE	1/2"	1/2"			JAN SINK - FLOOR MODEL 24 X 24 X 12 W/ STAINLESS STEEL CAP
	HAND SINK												PER KITCHEN EQUIP SPEC

PLUMBING LEGEND	
—	SANITARY OR WASTE PIPING—ABOVE FLOOR
—	SANITARY OR WASTE PIPING—BELOW FLOOR
—	VENT PIPING
—	COLD WATER PIPING
—	HOT WATER PIPING
—	HOT WATER RECIRCULATING PIPING
—RW—	RAIN WATER PIPING FLOOR
—RW—	RAIN WATER PIPING ABOVE FLOOR
—G—	GAS PIPING
—A—	COMPRESSED AIR
—B—	ATMOSPHERIC BACK FLOW PREVENTER
—V—	GAS VALVE
—F—	FLOW VALVE
—>—	DIRECTION OF FLOW
—N—	CHECK VALVE
—B—	REDUCED PRESSURE ZONE BACK FLOW PREVENTER
—O—	PIPE TURNS UP
—	PIPE TURNING DOWN
—P—	P-TRAP
—	CLEANOUT UP TO FLOOR OR GRADE
—	WALL CLEANOUT OR CLEANOUT IN RUN
—E—	PIPE CAP
—H—	WALL HYDRANT
—	DRAIN(S)
—	ROOF DRAIN
—	HOSE BIBB
—	GATE VALVE
—	HOT WATER CIRCULATOR

A/C	ABOVE CEILING	IW	INDIRECT WASTE
A/F	ABOVE FLOOR	INV	INVERT
A/G	ABOVE GRADE	MBH	1,000 BTU PER HOUR
AD	AREA DRAIN	NFWH	NON-FREEZE WALL HYDRANT
B/F	BELOW FLOOR	PRV	PRESSURE REDUCING VALVE
B/G	BELOW GRADE	RL	RAIN LEADER
BTUH	BRITISH THERMAL UNITS PER HOUR	RW	RAIN WATER
CLG	CEILING	RD	ROOF DRAIN
CO	CLEAN OUT	SS	SANITARY SOIL
CW	COLD WATER	SA	SHOCK ABSORBER
DN	DOWN	SAN	SANITARY
DS	DOWN SPOUT	TW	TEMPERED WATER
FD	FLOOR DRAIN	T&P	TEMPERATURE & PRESSURE
FA	FRESH AIR	SV	SANITARY VENT
G	GAS	VTR	VENT THRU ROOF
GI	GREASE INTERCEPTOR	WH	WALL HYDRANT
HB	HOSE BIB	W	WASTE
HW	HOT WATER	WTR	WATER
HWR	HOT WATER RECIRCULATING	YW	YARD HYDRANT
HD	HUB DRAIN	—	—

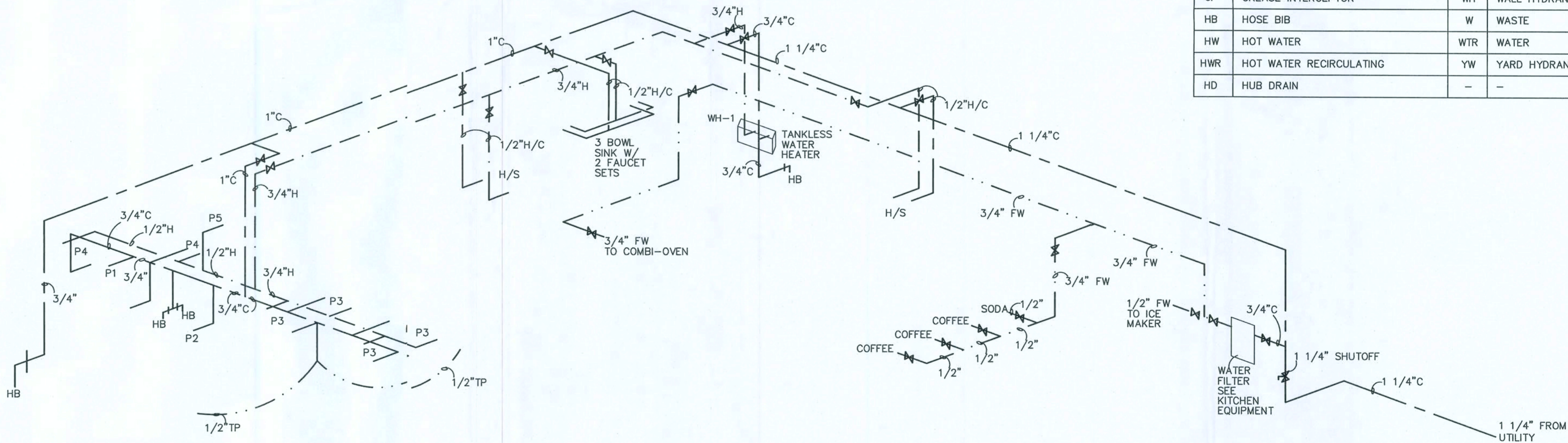


SANITARY RISER DIAGRAM
NTS

WATER HEATER SCHEDULE								
MARK	DESCRIPTION	MANUFACTURER	MODEL	FLOW (GPM)	BTUH (INPUT)	TEMP. RISE	RECOVERY (GPH)	REMARKS
WH-1	WATER HEATER	RINNAI	CONTINUUM V2532	8.5 MAX.	199,000 MAX.	90	200	PRIMARY CONTROL

120V/1Ø, 72 W EACH UNIT.

PIPING SCHEDULE - SEE NOTES							
USE	SIZE	TYPE	CONNECTION	INSULATION	THICK.	COMMENTS	
DOM. COLD	ALL	CPVC	GLUED	NONE		SCH 40 ASTM D2846	
DOM. HOT	ALL	CPVC	GLUED	FIBERGLASS	1" MIN R4	SCH 40 ASTM D2846	
SANITARY/VENT	ALL	DVW	GLUED	NONE		SCH. 40 ASTM D 1784 60T	
LAB WASTE PIPING	ALL	POLYETHYLENE	GLUED	NONE		SCH 40 ASTM F714.3	



WATER SUPPLY RISER
NTS

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S & S FOOD STORE NO. 29
BIRLEY & PINEMOUNT ROAD
LAKE CITY, FLORIDA



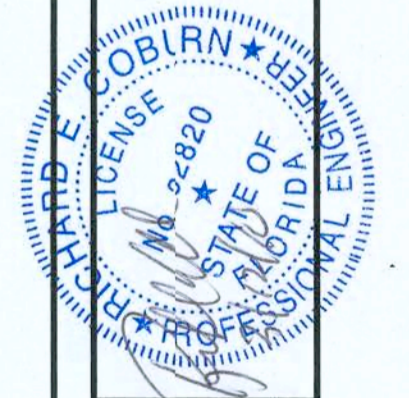
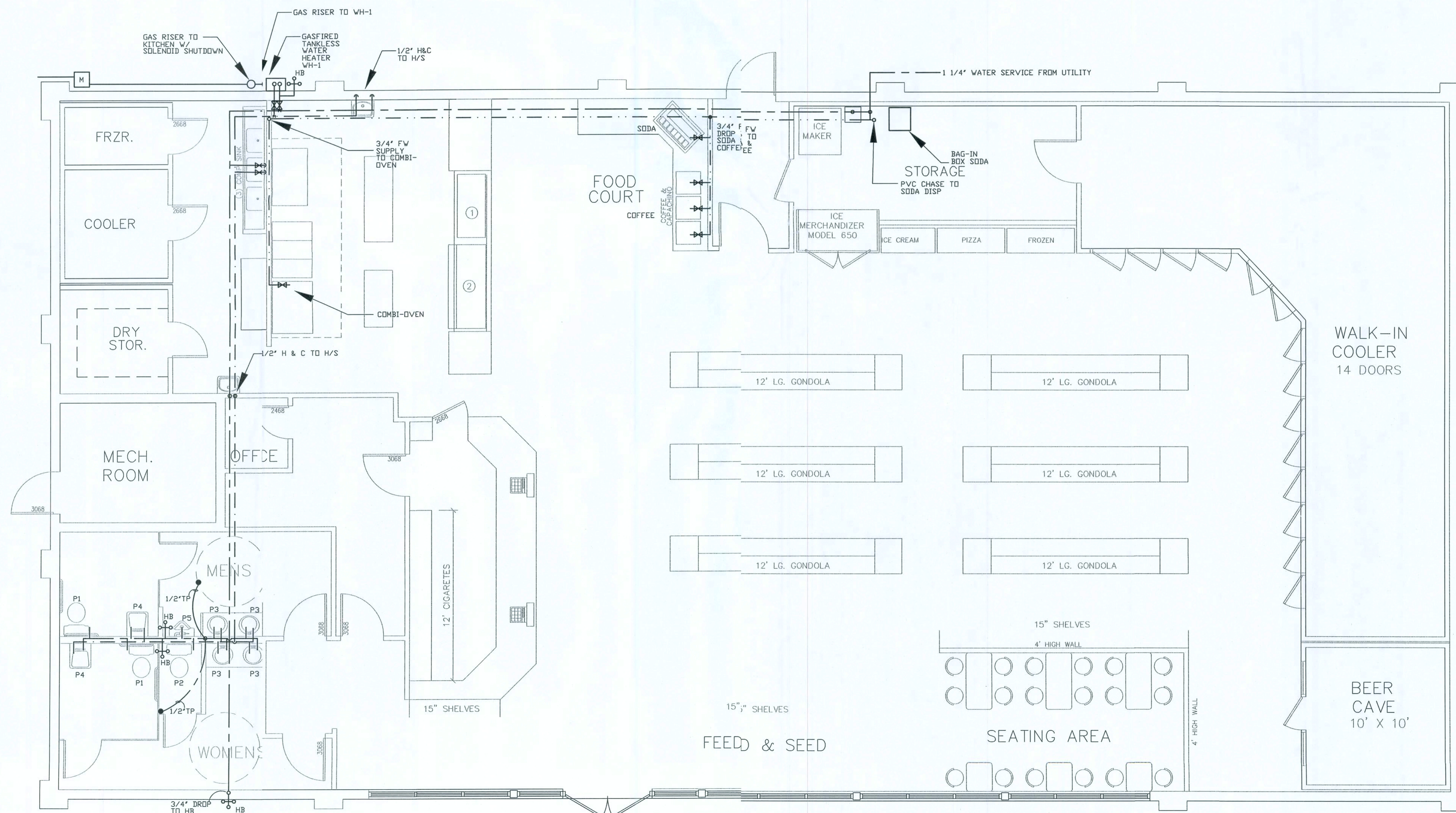
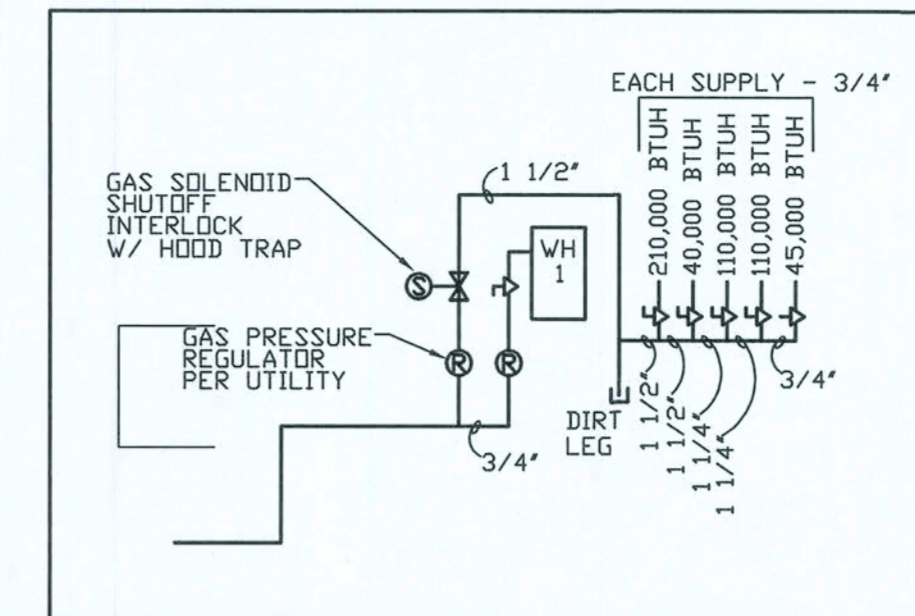
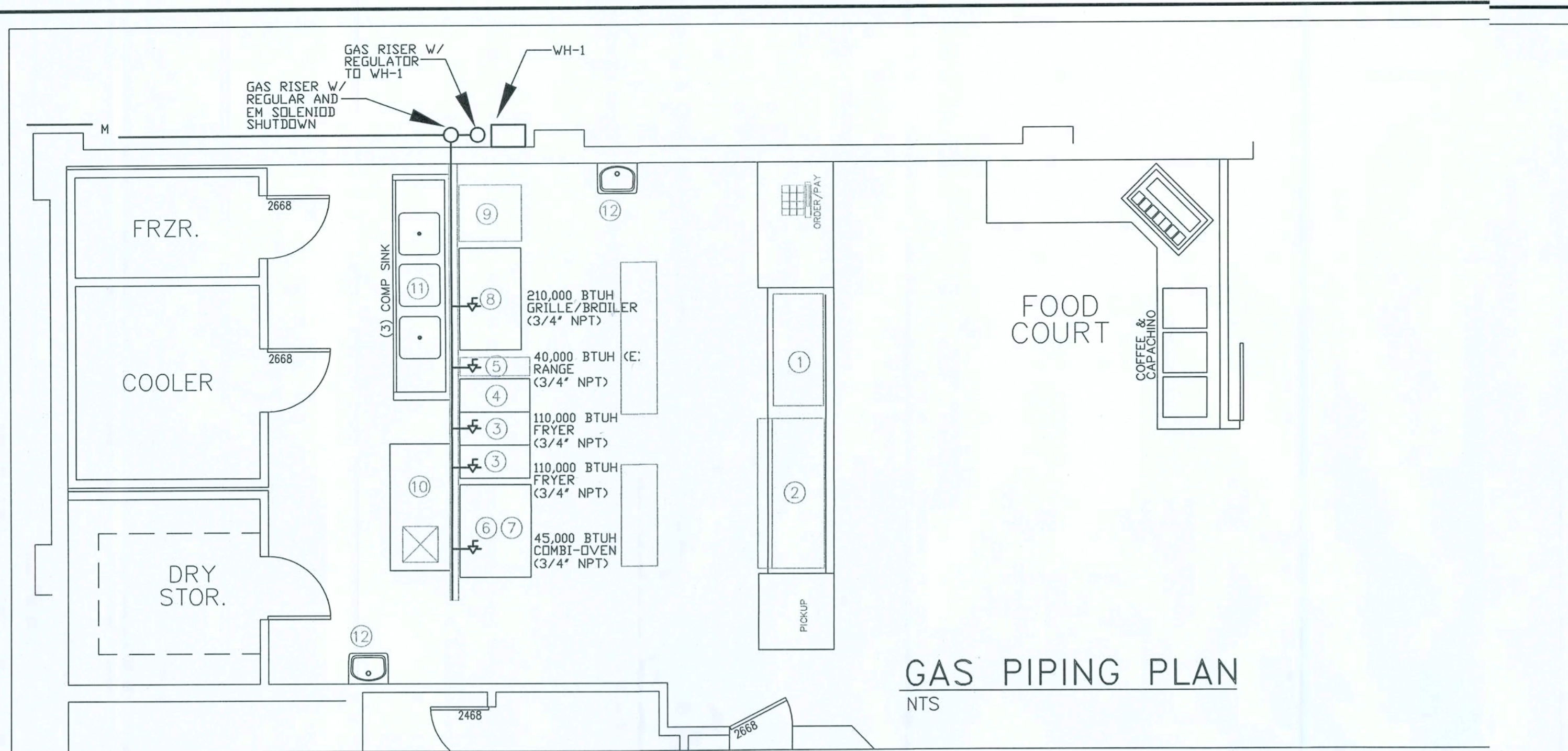
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OF
SHEETS



PLUMBING SPECIFICATIONS

- A. It is the intent of these specifications to define the work and materials typically installed by a Plumbing Contractor. However, it is not intended to define a subcontract between the Plumbing Contractor and General. The General Contractor is responsible for the entire project and any questions regarding scope of work shall be directed to the General Contractor.
- B. Work shall include all labor, materials, fixtures, equipment, tools and service necessary for installation, testing and adjusting of all mechanical systems shall be furnished and installed in compliance with the Drawings, Specifications, and any Addenda thereto.
- C. Drawings and Specifications shall be understood to cover, according to their intent and meaning, complete mechanical systems. Work shown and not specified, or work specified and not shown shall be performed as though it is installed in both.
- D. Minor items and accessories reasonably inferred as necessary for the complete and proper operation of any system shall be performed by contractor or subcontractor for such system whether or not they are specifically called for.
- E. Before submitting a bid, the Plumbing Contractor is to coordinate with the utility company to ascertain, in detail, the division of work, and the extent of performance by the Utility Company shall be furnished and performed by the Plumbing Contractor.
- F. If well and septic, contractor shall coordinate with General Contractor and review civil drawings to coordinate his scope of work.
- G. All work shall be performed or installed in strict accordance with Florida Building Code 2007 - Plumbing with 2008 and 2009 Amendments.
- H. All applicable rules, regulations and codes of local state and Federal Governments having lawful jurisdiction, and each contractor and subcontractor shall be responsible for such compliance.
- I. Fees for permits, inspections, patent use, royalties, etc. shall be paid by the contractor.
- J. Furnish all equipment and personnel and conduct all tests required to secure approval of the installation.
- K. Any repairs or changes required to secure the approval of the installation shall be done at no additional expense to the Owner.
- L. All work shall be installed in accordance with the appropriate codes and satisfy the local inspector having jurisdiction.
- M. 1. Furnish all equipment and personnel and conduct all tests required to secure approval of the installation.
- N. 2. Any repairs or changes required to secure the approval of the installation shall be done at no additional expense to the Owner.
- O. Upon completion of each part of the mechanical system, the contractor shall demonstrate to the Engineer that each item on that system is installed with proper covers, safeties, controls, etc., and that all are in proper working order.
- P. A set of "red-lined" mechanical drawings shall be carefully maintained at the job site. Actual conditions are to be put on the drawings in red on a daily basis so the drawings will continuously show locations and routings of piping, ducts, grilles, equipment, valves, and any equipment specified on the drawings or in these specifications.
- Q. Equipment and materials shall be new and meet or exceed specification requirements.
- R. 1. All product shall be current model for which replacement parts are available.
- S. 2. Accurate manufacturers are listed, additional manufacturers may request approval for their products up to 10 days in advance of bid. Engineer may require supplemental information prior to accepting or requesting an alternate.
- T. All work shall be performed in compliance with OSHA regulations.
- U. Shop drawings and product data shall be submitted on all equipment, fixtures, etc.
- V. 1. Submittals shall include all equipment to be installed by the subcontractor and all submittals must be made at same time.
- W. 2. Each package must have the General Contractors review stamp prior to submittal.
- X. 3. The Engineer will review one submittal and one resubmittal; subsequent resubmittals may require a review charge to be paid by subcontractor.
- Y. 4. Shop drawings shall be labeled in the same designation as the drawings.
- Z. Job conditions shall be inspected to determine prior to bidding in the following manner:
1. Site visit to determine:
- a. Existing conditions.
- b. How and where materials will be delivered and stored.
- c. Special problems encountered during construction.
2. Examine all Contract Drawings and Specifications to determine:
- a. Type of construction to be used.
- b. How construction or work will affect the work of this Section.
- c. Nature and extent of work of other trades.
- P. Failure to determine existing conditions or nature of construction will not be considered as a basis for granting additional compensation.
- O. Installation
1. Contract
2. Drawings show the arrangements and sizes of principal apparatus and devices to be provided under this Contract and connection thereto. These shall be followed as closely as actual building construction will permit.
3. Dimensions of work as indicated on Plans are not guaranteed to be as-built dimensions.
4. No measurements shall be scaled from Drawings and used as definite dimensions for layout or fitting work in place.
5. Layout of equipment, as shown on the plans, shall be checked and exact location determined by dimension if equipment approved by the Architect.
6. Consult the Drawings for all dimensions, locations of partitions, sizes of structural member, foundations, etc.
7. Do not make final layouts until shop or equipment drawings are approved and job conditions verified.
- R. Excavation and Backfill:
1. Plumbing Contractor shall coordinate with General Contractor to determine the extent or has work regarding excavation and backfill.
- S. Rough-in
1. Contractor shall rough-in for all equipment, fixtures, etc., in building whether or not such equipment is furnished by this Contractor or by Owner.
2. Determine in advance the location and size of all openings and chases necessary for proper installation of all work and have openings and chases provided during construction.
3. Install all inserts for hangers and supports of mechanical work and equipment work as general construction progresses.
4. Rough-in openings in masonry or stud walls shall be cut, not broken or chiseled.
5. Sleeves shall be required at all points where piping passes through concrete walls, slabs or masonry walls; sleeves installed below grade or where subject to high water conditions shall be installed watertight.
- T. Coordination:
1. Work shall be coordinated between all Contractors, Subcontractors, Installers, Suppliers, Trades, etc., to:
- a. Insure a neatly fitted installation.
- b. Determine the nature and extent of the work of others.
- c. Eliminate interferences.
- d. Maintain maximum headroom and clearances.
2. Any interference which develops or is foreseen and cannot be resolved by the affected trades, etc. shall be handled as follows:
- a. Cease installation of that portion of the work which is in conflict as no additional compensation will be allowed for any relocation, etc.
- b. Continue work only on other portions of the work which are not in conflict.
- c. Notify the Architect immediately.
- d. Architect's decision shall be final as to any relocation, rerouting, removal, etc.
- e. No additional compensation will be allowed for removal, relocation, repairs or changes required by interferences.
- U. Clear away all debris, surplus materials, etc., resulting from work on operations, leaving job and equipment in clean first-class condition.
- V. Where factory finish is provided on equipment, all marred or damaged surfaces shall be touched-up or refinished hereunder as approved.
- W. All plumbing fixtures shall be thoroughly cleaned of all plaster, stickers, rust stains, and other foreign matter, and be left ready for use.
- X. Surfaces of all floor drains, cleanouts and other equipment shall be cleaned and left in first class condition.

CHLORINATION OF DOMESTIC WATER LINES

- A. Disinfection of all water piping which shall carry potable water or any other piping connected thereto which is not separated by a backflow preventer.
- B. Disinfection shall be chlorine, either in the form of hypochlorite solution or in the form of compressed gas applied through an approved chlorinator.
- C. After completion of all tests, replacement, and repairs, all water supply systems shall be thoroughly flushed with water to remove sediment and/or debris.
- D. Begin disinfection only after flushing system.
- E. The system shall be filled with a solution containing 50 parts per million available chlorine and allowed to stand for twenty-four hours, or as required by local authorities, whichever is greater.
- F. During Chlorination all valves and equipment shall be operated to insure that chlorine reaches all parts of the system.
- G. Following disinfection all treated water shall be flushed from the system through its extremities until the quality of water delivered is comparable with the quality of the public water supply and satisfactory to the public health authority having jurisdiction.
- H. Disinfection and flushing shall be repeated if samples taken daily over a period of three days show that water quality is not being maintained.
- I. Samples shall be taken only from taps located and installed in such a manner that they will not contribute any contamination.
- J. Samples shall not be drawn from hydrants or through unsterilized hose.
- K. If disinfection and flushing has been repeated three times and water quality cannot be maintained, the Architect shall have the authority to require disassembly of piping as he shall deem necessary to determine the cause of contamination.
1. Any disassembly, cleaning or repair shall be at no additional expense to the Owner.
2. Disinfection, flushing and testing shall be repeated upon reassembly of the piping.

PIPE AND FITTINGS

- A. Refer to "PIPING SCHEDULE" on drawings.
- B. Any manufacturer engaged in the production of pipe, fittings and associated materials and who test, inspect and certify that said materials meet or exceed the ASTM designation for that material shall not be supported from ceiling tile or grids, conduit, mechanical equipment, ductwork or non-structural steel.
- C. Inspection for Underground Piping:
1. Examine areas to receive underground piping for:
- a. Complete excavation to elevations and slopes indicated.
- b. Obstructions which would interfere with drainage system installation.
2. Begin work only when conditions are satisfactory.
- D. Inspection for above-Ground Piping:
1. Examine areas to receive piping for:
- a. Obstructions.
- b. Work to be done prior to other construction.
- c. Work of other trades in other areas.
2. Begin work only when conditions are corrected satisfactorily.
- E. Installation of Underground Piping
1. Excavation:
- a. Excavate trenches of sufficient width for proper installation of pipe.
- b. Sheet and brace trenches as necessary to protect workmen and adjacent structures.
- c. Comply with current OSHA standards.
2. Final grading of trench:
- a. Perform final grading of trench bottoms by hand tools; carry machine excavation only to such depth that soil bearing for pipes will not be disturbed.
- b. Grade bottom of trenches evenly to insure uniform bearing for all piping.
- c. Cut holes as necessary for joint making.
- d. Keep trenches free from water while construction is in progress.
- e. Use surveyor's level to establish elevations and grades.
- f. Machine excavation shall be held a sufficient distance from foundations and building.
- g. Provide and maintain barricades and temporary bridges around excavations as required for safety.
- h. Water lines may be banded above sanitary lines in same trench if they are 18 inches or more above the sanitary line.
- i. Minimum bury depth for water piping shall be 24 inches.
- j. Grade horizontal drainage 1/4 inch per foot minimum.
- k. Install same type material specified for the inside building to 8 feet outside building.
3. Backfill:
- a. Backfill for all sewer lines shall be placed in accordance with manufacturer's printed instructions.
- b. Backfill trenches only after piping has been inspected.
- c. The backfill below paved areas and walks shall be brought to within 6 inches of finished grade; the remaining six inches shall be backfilled with clean topsoil.
- d. The backfill below sodded or seeded areas shall be brought to within 6 inches of finished grade; the remaining six inches shall be backfilled with clean topsoil.
- e. Provide and place any additional fill material from off the site as may be required for backfill.
- F. Installation of above-Ground Piping:
1. Pipe supports.
- a. Support piping as specified in Section 15094 for permanent installation.
- b. Pipe shall be adequately supported during construction with blocking or slings to prevent injury to personnel or damage to equipment or materials.
2. Exposed piping.
- a. Run exposed piping true and level.
- b. Run vertical exposed piping plumb.
- c. Run exposed piping with as few elbows and bends as possible.
- d. Group piping wherever practical at common elevations.
- e. Install concealed pipes close to building's structure to keep furring to a minimum.
- f. Slope water piping 1 inch in 40 feet and arrange to drain at low points.
- g. On closed systems, equip low points with 3/4 inch drain valves and hose nipples.

PLASTIC PIPE AND FITTINGS

- A. Domestic Water Supply - All
1. CPVC PER ASTM D2846
2. Joints
- a. GLUED PER MANUFACTURERS RECOMMENDATIONS
3. Fittings
- a. CPVC
- B. Vent piping (Above grade).
1. Piping shall be PVC
2. Polyvinyl Chloride (PVC) - ASTM D-1784-60T
- a. Schedule 40
- b. Type 1, Grade 1
- c. Pipe shall bear NSF seal and ASTM designation
3. Joints
- a. Bonded joints using adhesive per manufacturer's recommendations
4. Fittings
- a. PVC - ASTM D-2665-69.
- b. ABS - ASTM D-2661-69.
- C. Sanitary piping EXCEPT LAB FIXTURE (PB) DRAINS
1. PVC
- a. Schedule 40
- b. Type 1, Grade 1
- c. Pipe shall bear ASTM designation and NSF seal
2. Joints
- a. Bonded joints using adhesive per manufacturer's recommendations
3. Fittings
- a. PVC - ASTM D-2665-69

TRAPS

- A. General
1. All fixtures shall be trapped according to the Florida Building Code - Plumbing
2. All traps shall be the same size as the pipe in which they are installed or as sized on the Drawings.
3. All traps above grade shall have a clean-out plug in the bottom of the trap.
4. All traps above grade shall be PVC except for P-B which shall be POLYETHYLENE
5. All traps below grade shall be PVC or POLYETHYLENE WHERE NOTED
6. No trap below grade shall be less than 2 inches.
7. No fixture shall be double trapped.

SHOCK ABSORBERS

- A. Furnish and install shock absorbers on all domestic water piping as shown on the drawings, and/or specified in this section.
- B. Acceptable Manufacturers
1. Wade
2. Josam
- C. Description
1. Heavy duty casing
2. Minimum burst pressure - 4500 psig.
3. Nested bellows with built in stop.
4. Operating temperature 100 to 300 degrees F.
5. Permanently sealed charge of non-combustible gas.
6. All stainless steel.
7. Designed and built in accordance with plumbing and drawing standard PB1-WH201.
- D. Model Numbers (Zurn numbers used for reference only)
1. SS-1, MODEL 1250 - A - 1/2"
2. SS-2, MODEL 1250 - B - 3/4"
3. SS-3, MODEL 1250 - C - 1"
4. SS-4, MODEL 1250 - D - 1"
5. SS-5, MODEL 1250 - E - 1"
6. SS-6, MODEL 1250 - F - 1"

PIPE HANGERS AND SUPPORTS

- A. All piping shall be supported by pipe hangers, clamps, clips or supports as specified in this Section.
- B. All clevis type hangers shall have a minimum of 1 1/2 inches of vertical adjustment by using turnbuckles and/or threaded rods.
- C. All adjustments shall be positively secured by a locknut or setscrew.
- D. Hangers shall support the pipe size for which they are manufactured.
- E. Acceptable Manufacturers
1. Ornell
2. Fee and Mason

F. All clamps, hangers, clevis, etc. shall be steel.

- G. Pipe hangers in direct contact with copper shall be copper or lead plated, or of an approved dielectric material.
- H. Installation:
1. All piping shall be supported from structural building members, i.e. block, beams, columns, purlins, floor joists, etc.
2. Piping shall not be supported from ceiling tile or grids, conduit, mechanical equipment, ductwork or non-structural steel.
3. Perforated strapping may be used only for piping 3/4 in. or smaller and only when concealed in walls or ceilings.
4. Hangers for piping run flush along the walls shall be stamped steel straps similar to conduit straps for pipe sizes two (2) inches and smaller.
5. Hangers for piping run flush along the walls shall be steel wall brackets with steel clevis type hangers and threaded rod supports for pipe over two (2) inches.
6. Hangers for piping not run along walls shall be clevis type hangers with threaded rod supports for all piping over 3/4 inches.

I. Spacing:

1. Vertical runs of piping not over 15 feet long shall be supported by hangers placed not over one foot from elbows or connecting horizontal run.
2. Hangers shall be placed so as to prevent sag and permit proper drainage.
3. Hangers shall not be placed at more than the maximum distances shown on the Table below
- | Pipe Size | Max. Span - Ft. |
|-----------------|-----------------|
| 1/2 and 3/4 | 6 |
| 1 and 1-1/4 | 8 |
| 1-1/2, 2, 2-1/2 | 10 |
| 3 and 4 | 12 |
| 5 and 6 | 14 |
| 8 and larger | 16 |
4. Concentrations of valves and fittings will require closer spacing.

J. Hanger Attachments:

1. Pipe hangers shall be attached to structural steel by heavy steel clamps.
- a. Clamps shall be bolted to steel or welded to steel or cast iron.
2. Pipe hangers or clamps shall be attached to walls by means of expansion bolts (shields).

UNIONS

- A. Size
1. All unions shall be the same size as the line in which they are installed unless noted otherwise.
- B. Location
1. Unions shall be located between the shut-off valve and each of the following:
- a. Inlet and outlet to all water heaters
- b. Laboratories and sinks
- c. Water coolers
- d. Water closets and toilets
- e. Inlet and outlet of cooling coil
- f. Inlet and outlet of pumps
2. Where final fixture connection is made by compression-type fitting, unions shall not be required.
- a. This exception does not apply to water heater.
- C. Acceptable Manufacturers
1. Crane
2. Jenkins
3. Vogt
4. Stockman
- D. Unions for 2-1/2 inches and smaller copper
1. Brass ground joints, brass body
2. 150# rated
3. Sweet to threaded to match the system in which they are installed
- E. Install in locations where wrenches can be used on each half of the union with enough clearance for at least 180 degrees of rotation on a 6" pipe wrench.

VALVES, COCKS AND FAUCETS

- A. Hot, cold, and/or tempered water
1. Shutoff valves above grade
- a. CPVC Ball Valves - 1/4 turn
2. Shutoff valves below grade
- a. Bronze Gate Valve
- (1) Install in fiberglass box with cover
3. Drain valves
- a. CPVC Ball Valves - 1/4 turn
- B. Acceptable Manufacturers
1. Crane
2. Vogt
3. Sterling
4. Nilco
- C. Hose Bibbs
1. 3/4" female thread inlet
2. 3/4" male thread hose outlet
3. Rough chrome plated
4. Loose-key type
5. Provide with vacuum breaker
6. Model
- a. Equal to Chicago No. 3877-E27, Nilco 763-LS or equal
7. Provide with vacuum breaker.
- D. Wall Hydrant WH
1. Fully recessed with "key" operated cover.
2. 3/4" female inlet
3. 3/4" male threaded hose outlet
4. Rough chrome plated
5. Vacuum breaker.

PRESSURE - TEMPERATURE RELIEF VALVE

- A. Supply a pressure relief valve on each hot water heater and hot water booster heater tank.
- B. Valve size, pressure, and temperature ratings shall be as specified by the tank manufacturer, except that in no case shall the valve be smaller than 3/4 inches inlet and outlet.
- C. Valve shall have a handle for manual operation and testing.
- D. Valve shall be cast brass or bronze.
- E. Pipe the outlet of the pressure-temperature relief valve to outside of building and terminate 2" above grade or per local code.

INSULATION

- A. Provide piping insulation on all piping designated on the "Piping Schedule" shown on drawings and per Florida Energy Code, Min R4 per inch.
- B. Acceptable Manufacturers
1. Johns-Manville
2. CertainTeed
- C. Fiberglass insulation
1. Rigid lightweight heavy density fiberglass with jacket.
2. Temperature applications to 650 F.
3. Insulation, jacket, and adhesive shall be tested under procedure ASTM E-84, NFPA 255, and UL 723 not exceeding
- a. Flame spread - 25.
- b. Smoke developed - 50.
4. Equal to Johns-Manville Micro-Lok 650 AP-T.
- D. Closed Cell Rubber insulation
1. Closed cell, elastomeric tubular pipe insulation.
2. Tested under procedure ASTM E-84, NFPA 255, and UL 723 not exceeding
- a. Flame spread - 30.
- b. Smoke density - 100.
3. Adhesive
- a. Air drying contact cement
- b. Equal to Johns-Manville "Aerotube Elastomeric Pipe Insulation."
- E. Install insulation on piping after it has been inspected and tested and accepted by the Architect, Engineer and State or local inspectors.

F. All surfaces to receive insulation shall be cleaned of all dirt, grease, and moisture prior to installing any insulation.

- G. Installation of Fiberglass Insulation:
1. All insulation shall be continuous through wall and ceiling openings.
2. Vapor barrier jackets shall be used on piping except domestic hot water.
3. Hangers, supports, anchors, etc., that are secured directly to cold surfaces must be adequately insulated and vapor sealed to prevent condensation.
4. Metal shields shall be applied between hangers or supports and the pipe insulation.
5. Shields shall be formed to fit the insulation and shall extend up to the centerline of the pipe and a minimum of 9 inches long.
6. Shields shall be 16 gauge aluminum.
7. Fittings shall be covered equivalent density insulation and covered with preformed PVC insulation fitting covers.
- a. Wrap fittings with insulation.
- b. Pop the preformed cover in place, tape or tack.
- H. Installation of Closed-Cell Rubber:
1. Make all cuts neatly with a razor blade or sharp knife.
2. All longitudinal cuts shall be sealed with adhesive.
3. All butt joints shall be made neatly and sealed with adhesive.
4. Tape shall not be allowed on joints or seams.
5. Insulation shall be applied in a relaxed state, not stretched or crushed.
6. Fittings shall be insulated by fabricating tees, elbows or crosses as required from the tube insulation as described in manufacturer's literature.
7. Valves shall be insulated up to the packing nut.
8. All insulation on exposed piping shall receive two (2) coats of paint, the same color as the wall against which it is mounted.
9. Joints shall be sealed with adhesive as recommended by the manufacturer.

FLOOR AND SHOWER DRAINS

A. Acceptable Manufacturers

1. Wade
2. Josam
3. Zurn
- B. Floor Drains:
1. Cast iron floor drain with integral clamping collar.
2. Seepage openings.
3. Heavy duty grate, with vandalproof screws.
4. Square top, polished brass.
5. Adjustable top.
6. 4-inch outlet unless otherwise noted on Drawings.
7. Model - equal to Wade, Series W - 1390.

C. Installation

1. Floor drains shall be installed in the locations show on Plans.
2. Care shall be taken that rim of floor drain is not higher than finished floor in order to prevent "puddling" of water around the drain.
3. Floor drain top shall be flush with finished floor.
4. Hub drains shall extend 1 inch above finished floor per details.

D. Floor Sinks

1. Enameled cast iron
2. 4" outlet unless otherwise noted
3. 12" X 12" overall, 8" X 8" X 6 5/8" basin size
4. Adjustable 1/2 top grate
5. Equal to Zurn FD2375

CLEANOUTS AND ACCESS COVERS

- A. Provide cleanouts as shown on the Drawings or as required by Standard Plumbing Code.
- B. Acceptable Manufacturers
1. Wade
2. Josam
3. Zurn

C. Floor Cleanouts:

1. Same size as drain pipe through 4 inches.
2. Adjustable housing to match finished floor.
3. Heavy duty top.
4. Nickel brass secured cover.
5. Ferrule as required to match soil pipe.
6. Cast iron.
7. Cover shall be marked "C.O."
- B. Model Number:
- a. Synthetic floor covering:
- (1) Wade W-7030-D Series or equal
- b. Finished slab - no covering:
- (1) Equal to Wade W-7030 Series
- c. Terrazzo finish:
- (1) Wade W-7010-U Series, or equal.
- D. Concealed Cleanouts:
1. Cleanouts in crawl space or in unfinished mechanical rooms.
2. Cast iron cleanout tee on T-wall with ferrule fitting and neoprene seal raised plug head.
3. Same size as drain pipe through 4 inches.
4. Position cleanout plug for easy access by electric eel.
5. Model Number:
- a. Cleanout ferrule.
- (1) Wade W-8530-B Series or equal.
- E. Exposed Wall Cleanouts
1. Same size as pipe.
2. Polished chrome cleanout cover over wall openings.
- F. Install all cleanouts and coverplates flush with the finished floor in which they are installed.
1. Any cleanout which presents a tripping hazard due to improper installation shall be removed and reinstalled.

PLUMBING FIXTURES

- A. Furnish and install plumbing fixtures per Plumbing Fixture Schedule
1. Manufacturers and Model Numbers establish quality; equivalent fixtures by other manufacturers are acceptable.

S & S FOOD STORE NO. 29
BIRLEY & PINEMOUNT ROAD
LAKE CITY, FLORIDA



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PLUMBING SPECIFICATIONS
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