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FLOOR PLAN

 ${f v}$   ${f m}$ 

DJR APPROVED

**G-1** 

## 18

# S&S F00D ST0RE N0. 29

PINEMOUNT RD. & BIRLEY RD. LAKE CITY - COLUMBIA COUNTY - FLORIDA

## STRUCTURAL DESIGN DATA

OTTOOTOTIME DEGIC	
 BASIC WIND SPEED:	IIØ MPH
WIND IMPORTANCE FACTOR (1):	l = 1.00
BUILDING CATAGORY:	CATAGORY II
WIND EXPOSURE:	"B"
INTERNAL PRESSURE COFFEIGIENT:	+/- 018

SIZE	END ZON	IE (5)	INTERIOR	ZONE (4)
(Sf.)	POS. +	NEG	POS. +	NEG
0-20	20.8	27.2	208	22.6
20-50	19.5	24.6	19.5	21.3
50-100	18.5	22.6	18.5	20.4

## **DESIGN CRITERA**

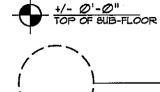
FLORIDA BUILDING CODE	2007
FLORIDA PLUMBING CODE	2007
FLORIDA MECHANICAL CODE	2007
FLORIDA GAS CODE	2 <i>00</i> 7
FLORIDA FIRE PREVENTION CODE	2007
NFPA 96, VENTILATION CONTROL AND FIRE PROTECTION OF COMMERCIAL COOKING OPERATIONS	2007
NFPA 101, LIFE SAFETY CODE, FLORIDA EDITION	2007
BUILDING AREA = 5,000 G.S.F.	

### STANDARD ABBREVIATIONS

 a	AT	GÅLV.	GALVANIZED
#	NUMBER or POUND(5)	HORZ.	HORIZONTAL
=	EQUAL9	ING.	INSULATION
ф	DIAMETER	INT.	INTERIOR
W/	WITH	LAV.	LAYATORY
W/O	WITHOUT	LVL.	LAMINATED VENEER LUMBER
¢.	CENTERLINE	MAX.	MAXIMUM
\$	AND	MIN.	MINIMUM
+/- or ±	PLUS OR MINUS	MISC.	MISCELLANEOUS
1'	ONE FOOT	M.O.	MASONRY OPENING
1"	ONE INCH	No. or Nr.	NUMBER
1/4" or 14"	ONE QUARTER INCH	o.c.	ON CENTER
8d	8 PENNY	O/H	OVERHEAD
BM	BEAM	OHD	OVERHEAD DOOR
BOT.	воттом	PLYWD.	PLYWOOD
CLG.	CEILING	P/T	PRESSURE TREATED
co	CLEANOUT	REINF.	REINFORCING (ED)
CONC.	CONCRETE	REQ'D	REQUIRED
COTG	CLEANOUT TO GRADE	RM.	ROOM
DBL.	D <i>O</i> UBLE	<del>SF</del>	SQUARE FEET
DIM.	DIMENSION	SGD	SLIDING GLASS DOOR
DN.	DOWN	SHT.	SHEET
ELEV.	ELEVATION	SRLH	SUMANNEE RIVER LOG HOMES
EXT.	EXTERIOR	TYP.	TYPICAL
F	FRENCH (DOORS)	VERT.	VERTICAL
FDN.	FOUNDATION	WC	WATERCLOSET (TOILET)

### SYMBOLS

THESE SYMBOLS ARE MOST OFTEN ENCOUNTERED IN THE FOLLOWING DRAWINGS: ELEVATIONS, DIMENSION PLANS, SECTIONS & STRUCTURAL PLANS



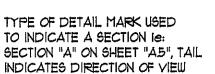
• • .

ELEVATION - TRUE MEASUREMENT.

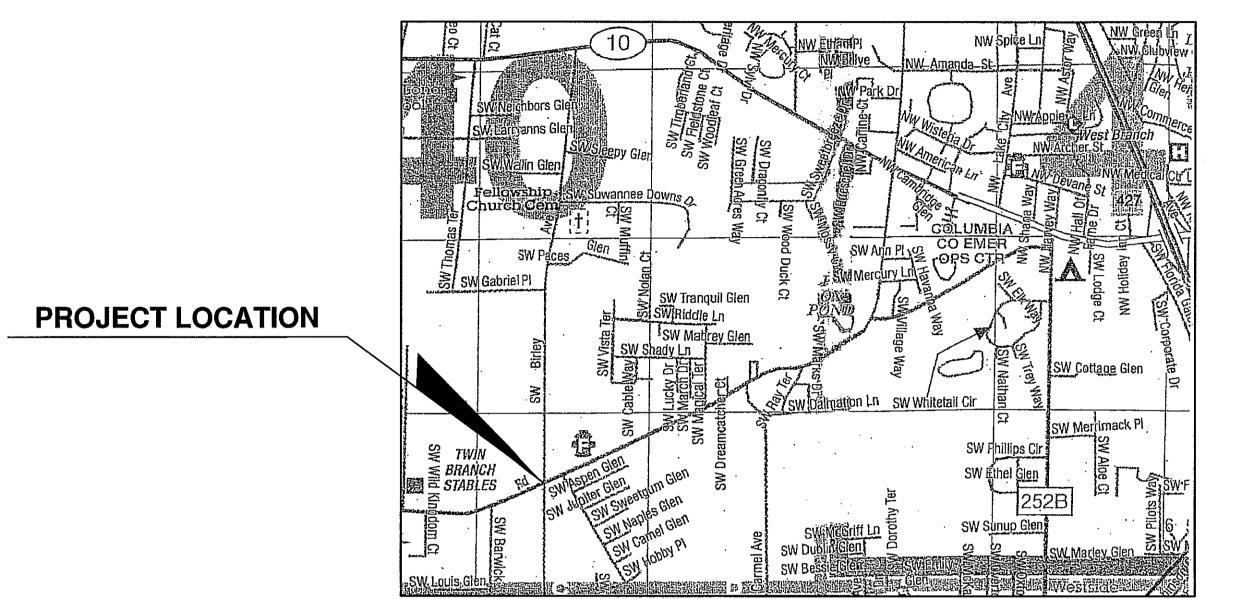
TYPE OF DETAIL MARK USED TO INDICATE A SECTION OR DETAIL ASSOCIATED WITH A PLAN VIEW

TYPE OF ELEVATION MARK USED

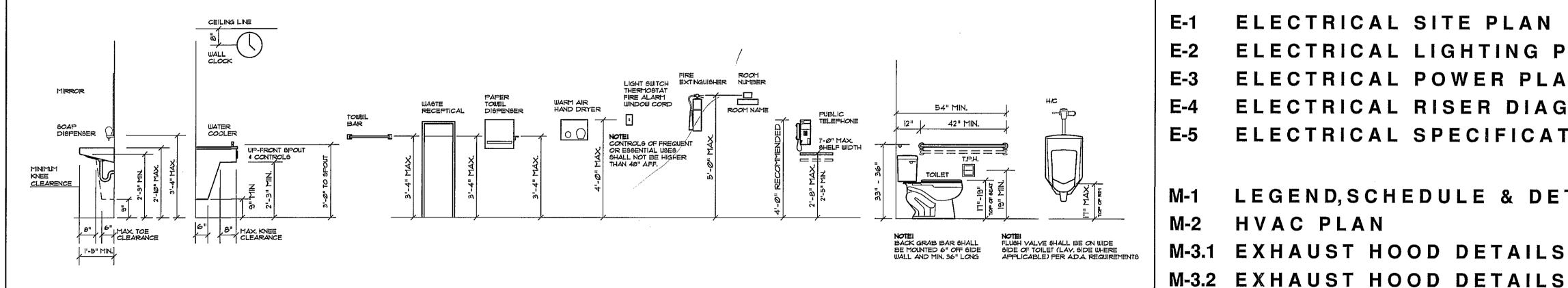
TO INDICATE A PREFERRED TARGET



TYPE OF SECTION MARK USED TO INDICATE A VIEW TAKEN IN THE DIRECTION OF THE ARROW IE: SECTION "A" FOUND ON "A.5"



## LOCATION MAP SECTION 05, TOWNSHIP 4 SOUTH, RANGE 16 EAST **COLUMBIA COUNTY, FLORIDA**



#### A.D.A NOTES: ACCESSIBILITY

RESTROOM NOTES

WATERCLOSETS: SHALL COMPLY WITH SEC. 4.16 OF ADA HEIGHT OF SEAT SHALL BE IN ACCORDANCE WITH SEC. 4.16.3 OF ADA FLUSH CONTROLS SHALL BE IN ACCORDANCE WITH SEC. 4.16.5 OF ADA

GRAB BARS: SHALL COMPLY WITH SEC. 4.16.4 OF ADA DISPENSERS: SHALL COMPLY WITH SEC. 4.16.6 OF ADA

LAYATORIES, SINKS & MIRRORS: SHALL COMPLY W/ SECTION 4.19 OF ADA HEIGHTS SHALL COMPLY WITH SEC. 4.19.2.1 OF ADA EXPOSED PIPES & SURFACES SHALL COMPLY W/ SECTION 4.19.4 OF ADA FAUCETS SHALL COMPLY WITH SEC. 4.19.5 OF ADA MIRRORS SHALL COMPLY WITH SEC. 4.19.6 OF ADA

OWNER SELECTED MATERIAL AND INSTALLATION OF FINISH FLOORING MATERIALS TO COMPLY WITH THE FOLLOWING:

SEC. 4.5 OF ADA SEC. 4.3 OF ADA

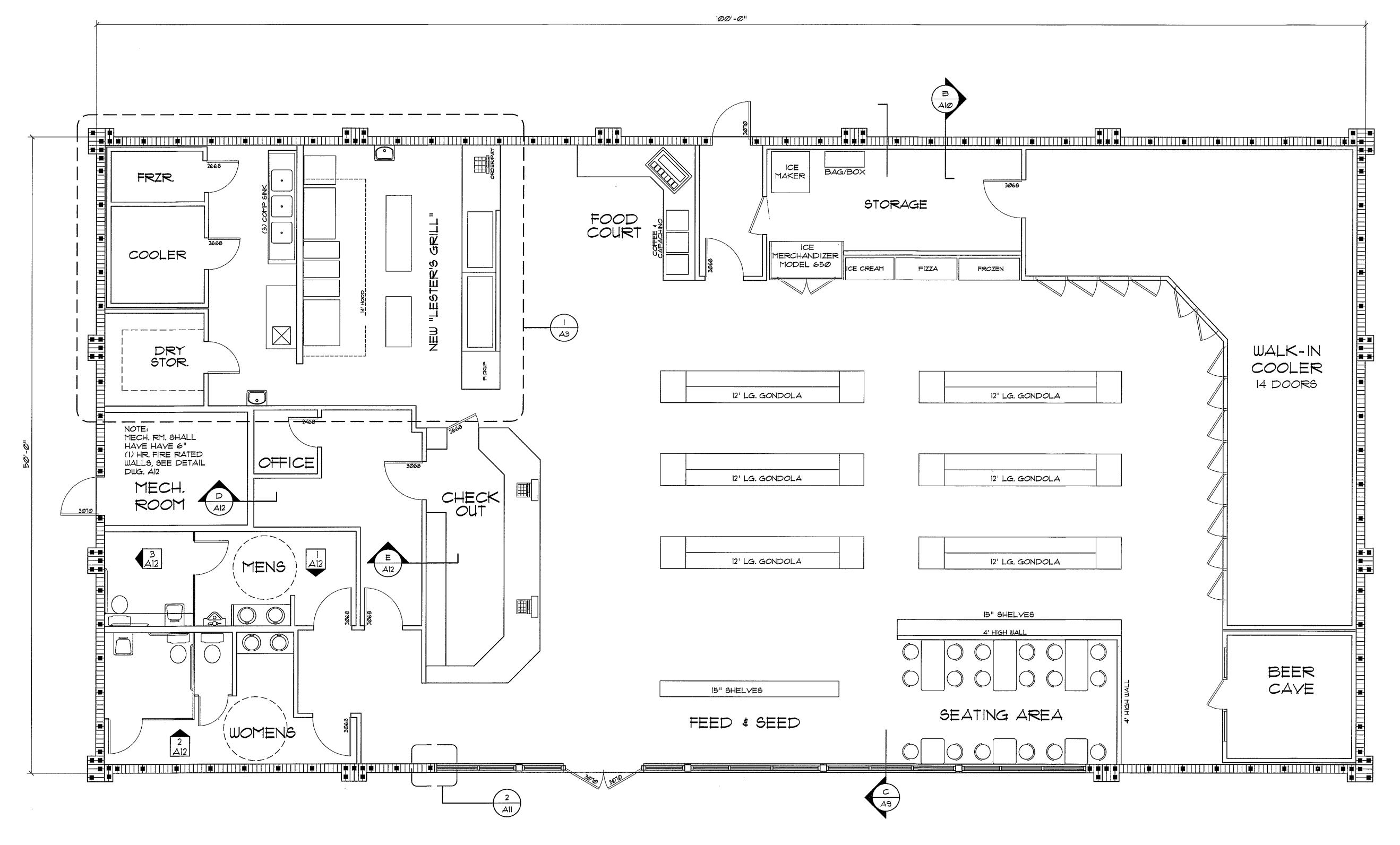
APPLICABLE SECTIONS OF NFPA FIRE CODES APPLICABLE SECTIONS OF NFPA 101-LATEST LIFE SAFETY CODE

FIXTURES, DEVICES AND RELATED HARDWARE NOT SPECIFICALLY DEFINED OR MENTIONED ELSEWHERE ARE TO BE OWNER SELECTED AND INSTALLED TO COMPLY WITH THE ABOVE APPLICABLE ADA SECTIONS.

## STANDARD MOUNTING PER A.D.A. REQUIREMENTS



ASSOCIATES
INTERIOR DESIGNERS



## **FLOOR PLAN**

SCALE: 1/4" = 1'

BASIC WIND SPEED:	IIØ MPH	TYPE OF CONSTRUCTION	HURRICANE UPLIFT CONNECTORS
JIND IMPORTANCE FACTOR (1):	I = 1.00	Roof: Hip Roof Construction, Wood Trusses @ 24" O Walls: 8" CM.U. Walls - Reinf. per Drawings Floor: 4" Thk Concrete Slab W/ 6x6 W2.1/2.i W.W.M. Foundation: Continuous Footer/Stem Wall  ROOF DECKING:  Material: 5/8" CDX Plywood Sheet Size: 48"x96" Sheets Perpendicular to Roof Framing Fasteners: *8 Commom Nails @ 6" O.C. Edge, 12" O.C. Field  SHEARWALLS  Material: 8" CM.U. W/*5 Vert. Reinforcing @ 32" o.c.	Truss to CMU Wall: "SIMPSON" META20 @ Ea. Truss End W/ TSS Galvanized Saddle
BUILDING CATAGORY:	CATAGORY II		Truss to Steel Bm.: "SIMPSON" LTT20B © Ea. Truss End W/ 1/2" Anchor Bolt
JIND EXPOSURE:	"B"		Girder to CMU Wall: "SIMPSON" HHETA24 @ Ea. Truss Enc
NTERNAL PRESSURE COEFFICIENT:	+/- Ø.18		W/ Galvanized Moisture Barrier
TWFRS PER TABLE 1609.2A (FBC 2007) DESIGN WIND PRESSURES:	ROOF: - 23,1 PSF WALLS: + 26,6 PSF EAVES: + 32,3 PSF		FOOTINGS AND FOUNDATIONS  Footing: 12"X24" W/3 #5 Rebar - continuous  Stemwall: 8" CM.U. with #5 Vert. Reinforcing # 32" o.c.
COMPONENTS & CLADING PER TABLES 609.2A, 1609.2B & 1609.2C (FBC 2007) DESIGN WIND PRESSURES:	OP'NGS: + 21.8 / - 29.1 PSF EAVES: - 68.3 PSF ROOF: + 19.9 / - 25.5 PSF		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.

Citing -3/10

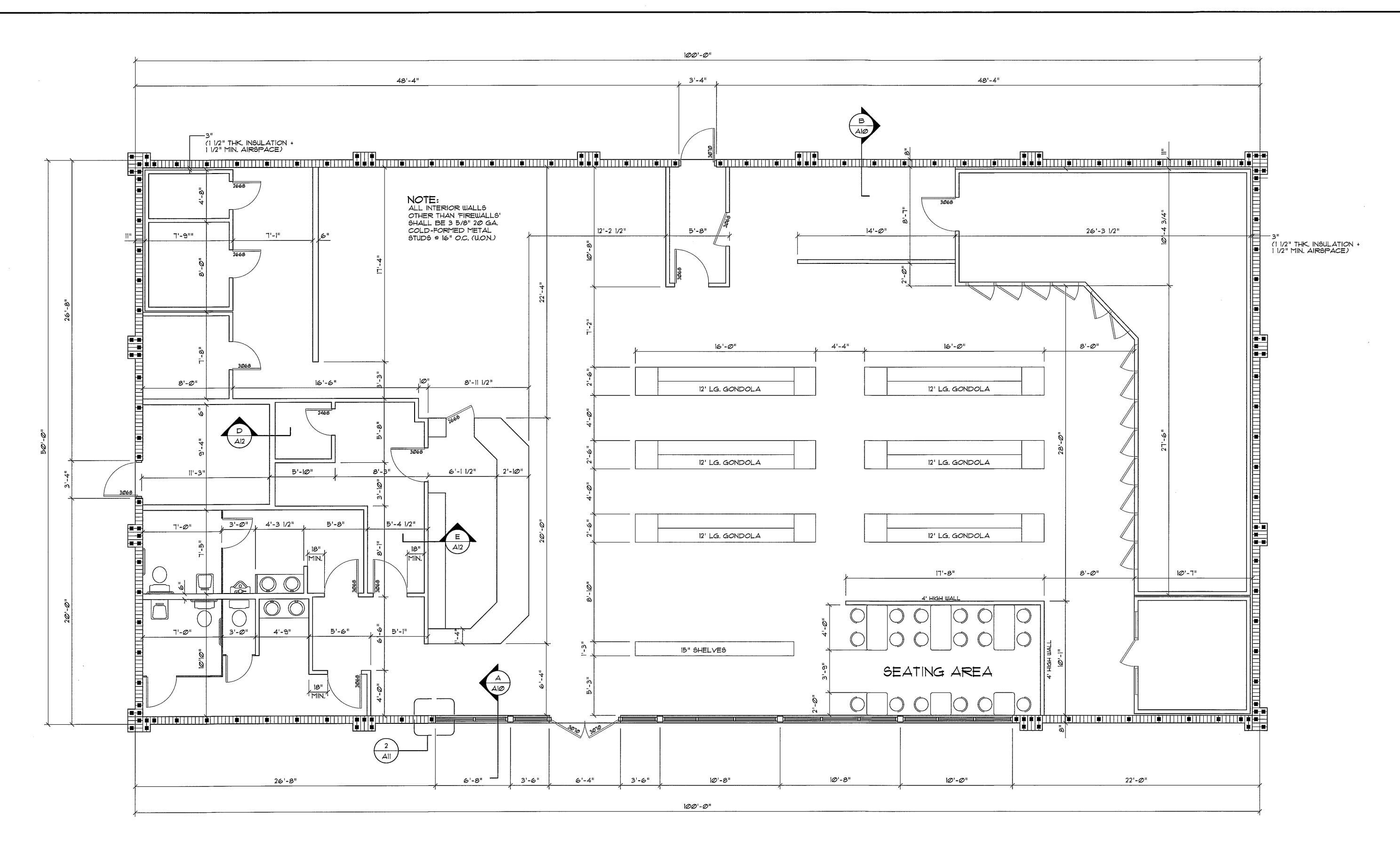
S & S BIRLEY

CRAIG SALLEY FL. REG. NO. DATE 2/12/10 DRAWN

APPROVED

A-1

SHEETS



## **DIMENSION PLAN**

SCALE: 1/4" = 1'

S & S FOOD STORE N

Ciny Salley 3/10/10

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

DATE
2/12/10

DRAWN
DJR

APPROVED

**A-2** 

OF 18

2668 FRZR. 2668 COOLER 6'-6" 2'-Ø" 8'-0" 4'-0" (6) (7) 1 DRY STOR. 2668

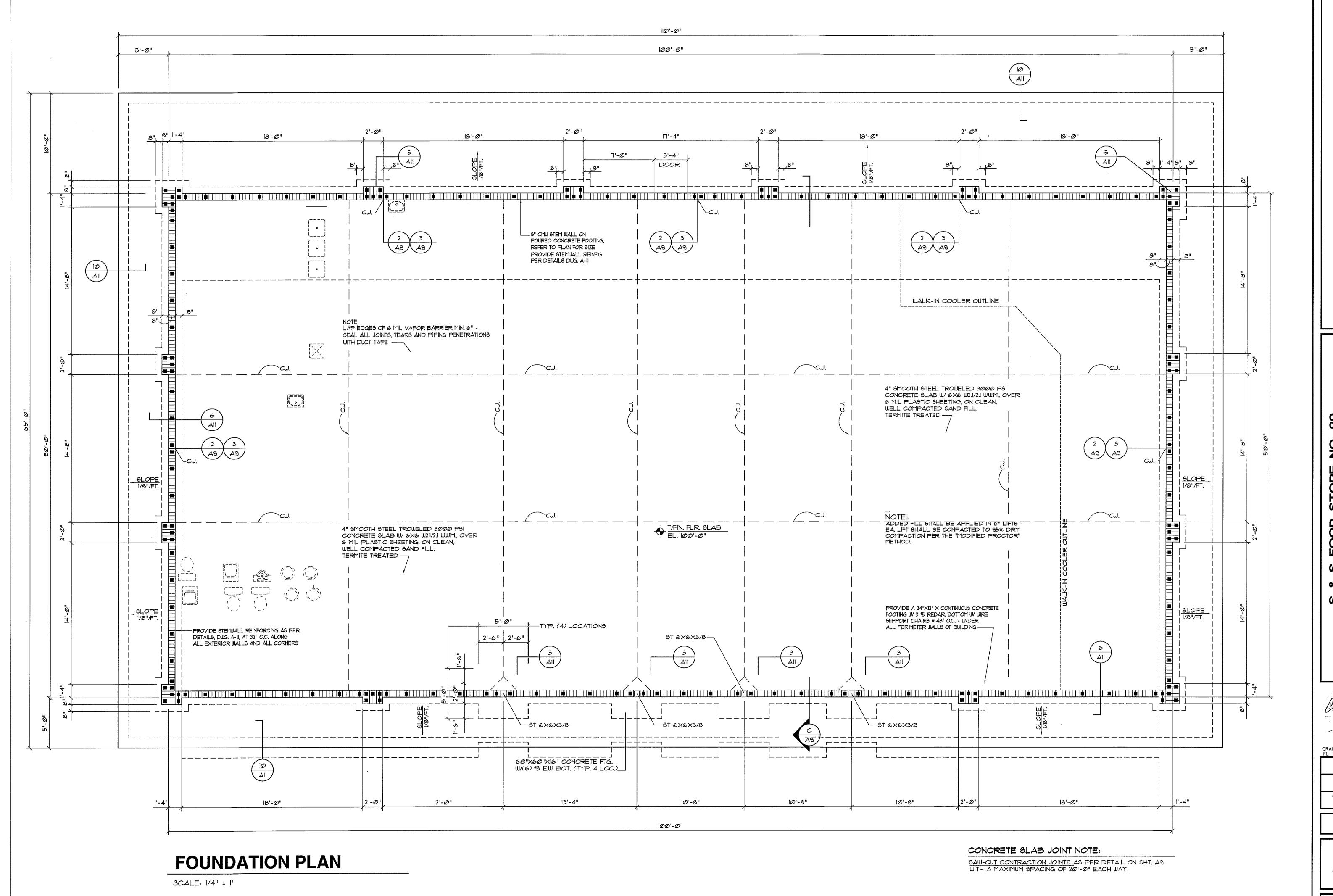
KITCHEN EQUIPMENT LAYOUT	1
SCALE: 1/2" = 1'	ДЗ

#### EQUIPMENT SCHEDULE ELEC/GAS REQUIREMENTS NO. DESCRIPTION 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 FRYER FILTER MATE 5 2 BURNER COOK TOP (2) 33,000 BTU BURNERS GAS COMBI-OVEN 120V/60/1, 5.7A, NEMA 5-15P, 91,000 BTU 120V/60/1,12.5A,NEMA 5-15P, 50,000 BTU CONVECTION OVEN 60,000 BTU 8 GRIDDLE 80,000 BTU CHARBROILER REFRIGERATED SANDWICH PREP 1157/60/1, 10 5' 66 PREP TABLE 3-COMPARTMENT SINK 12 HAND SINK SEE - CAPTIVE AIRE SPECIFICATIONS 13 | 14' EXHAUST HOOD

#### 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. 1.1.1 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. 1.1.2 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. A.I.I.I 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.I.I.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



AIG SALLEY AND ASSOCIATES

TECTS · PLANNERS · INTERIOR DESIGNERS

'BERRY ROAD • GAINESVILLE, FLORIDA • LIC. NO. AA0002479 • 352-372-8424

Е

S & S FOOD STORE NO. 29 BIRLEY & PINEMOUNT ROAD

Traig Silley
3/10/10

DATE

2/12/10

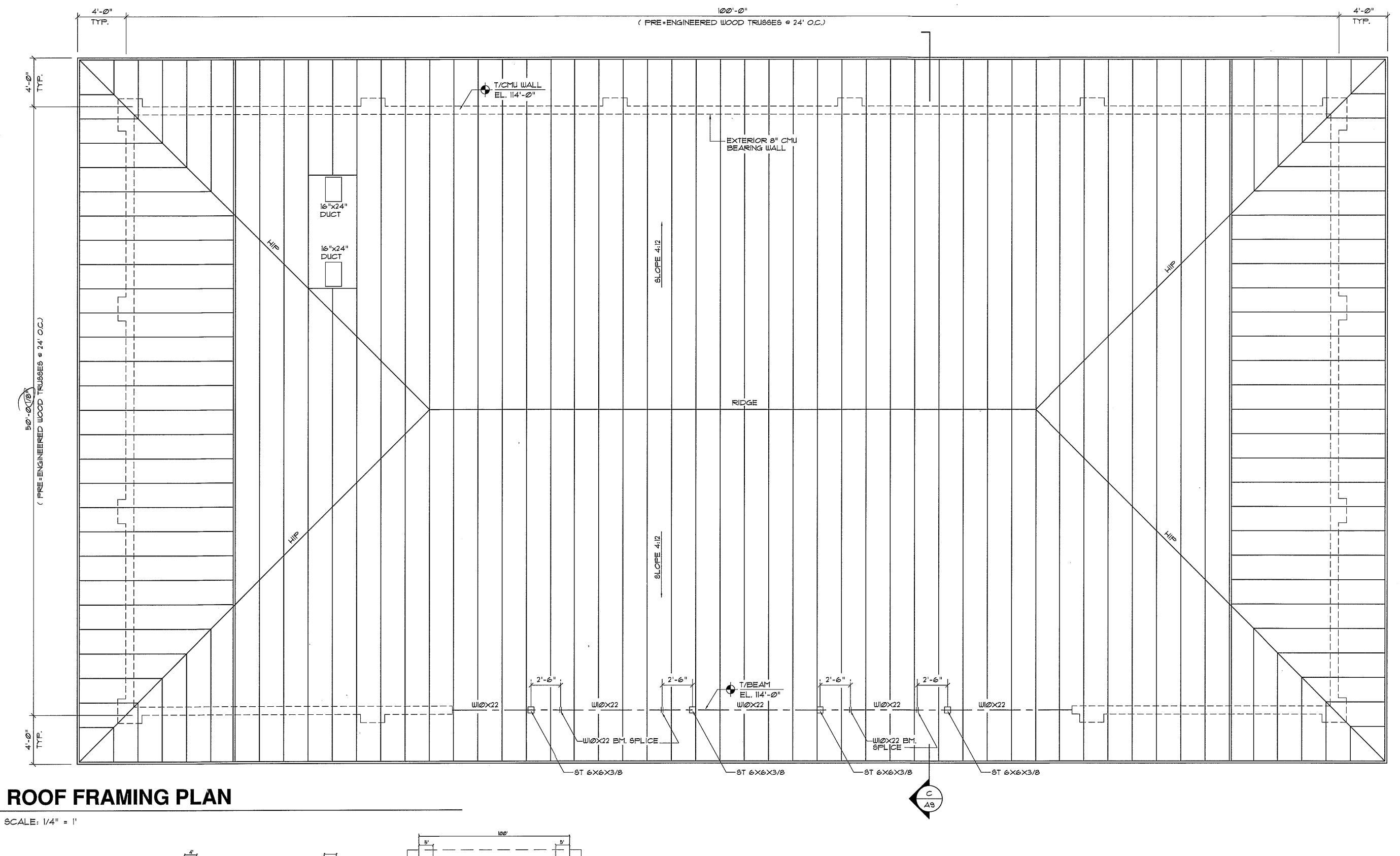
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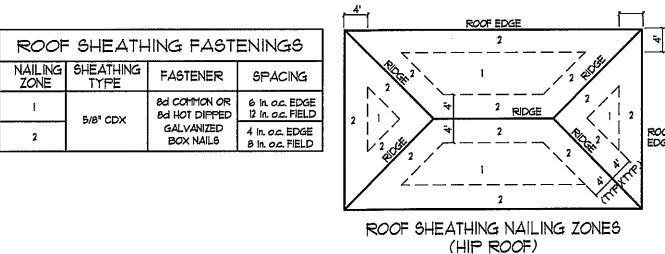
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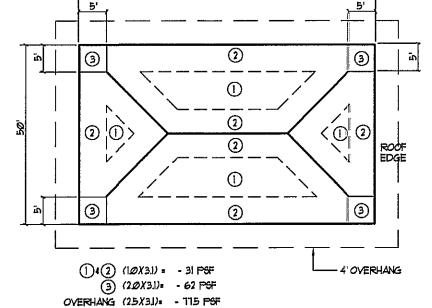
**A-4** 

OF 18



SCALE: 1/4" = 1'





## **Roof Nail Pattern DETAIL**

SCALE: NONE

Wind Uplift DIAGRAM SCALE: NONE

ING OFFICIAL.

SHOP DWG 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 COMPARABLE 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 CONSTRUC-TION DOCUMENTS OR AS APPROVED BY THE BUILD-

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 JOINN'S WITH AN UPLIFT OR GRAVITY LOAD OF 100 LBS OR GREATER.

### **WOOD STRUCTURAL NOTES**

- TEMPORY BRACING OF THE STRUCTURE DURING ERECTION, REQUIRED FOR SAFE AND STABLE CONSTRUCTION, SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR SO ENGAGED. TEMPORY AND PERMANENT BRACING OF ROOF TRUSSES SHALL BE AS PER THE STANDARD GUIDELINES OF THE "TRUSS PLATE INSTITUTE".
- 2. 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
- 3. THE DESIGN WIND SPEED FOR THIS PROJECT IS 110 MPH PER THE 2007 FLORIDA BUILDING CODE SECTION 1609 AND LOCAL JURISDICTION REQUIREMENTS.
- 4. SHEATH ROOF WITH 5/8" CDX PLYWOOD W/LONG EDGE PERPENDICULAR TO THE ROOF TRUSSES, SECURE TO FRAMING WITH 8d NAAILS SPACED PER THE NAILING SCHEDULE.

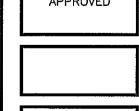
CRAIG SALLEY, R.A. FL. REG. NO. 4475

CRAIG SALLEY AND
ARCHITECTS · PLANNERS · 3911 NEWBERRY ROAD · GAINESVILLE, FLORIDA · LIC.

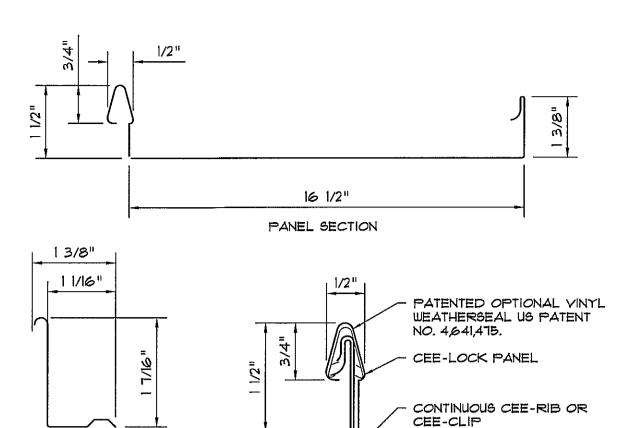
2/12/10 DJR APPROVED

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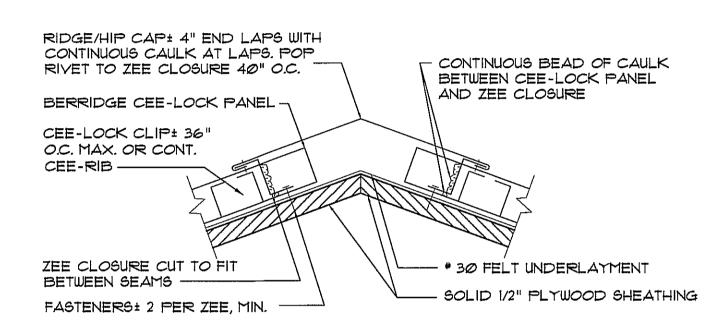
SEAM SECTION

### **PANEL DETAIL**

CONT. CEE-RIB

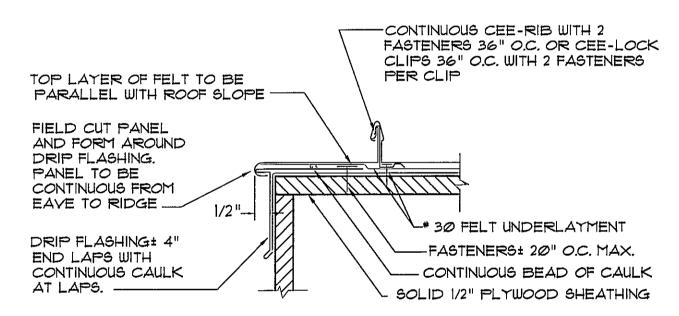
OR CEE-CLIP SECTION

SCALE: NONE



#### RIDGE/HIP DETAIL

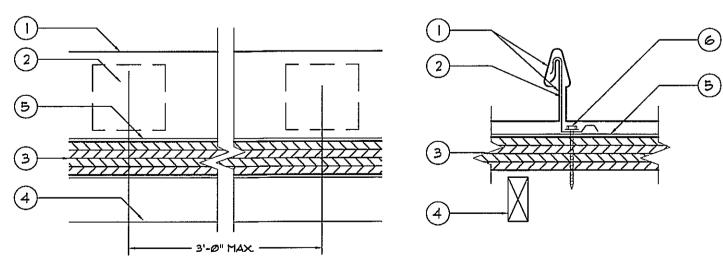
SCALE: NONE



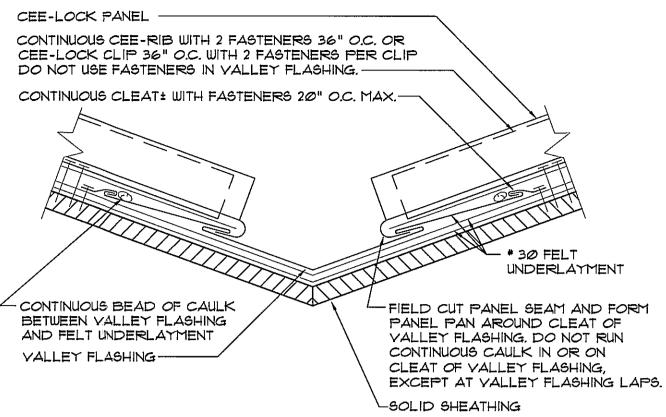
NOTE: FIELD CUT AND FORM LAST PANEL AROUND DRIP FLASHING. PANEL MUST BE CONTINUOUS FROM RIDGE TO EAVE.

### GABLE DETAIL / PANEL TURNDOWN

SCALE: NONE

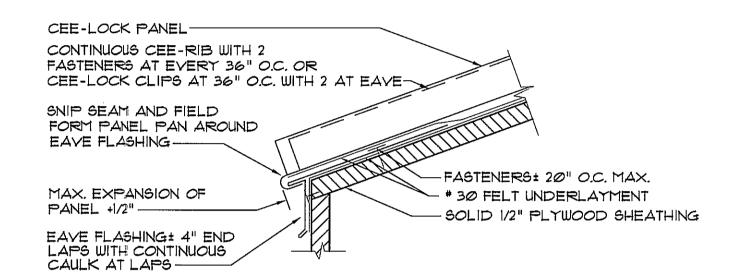


- 1. CEE-LOCK PANEL \* NO. 24 MSG (MIN. YIELD STRENGTH 40,000 PSI) THICKNESS COATED STEEL, 16 1/2 IN. WIDE I 1/2 IN. HIGH. PANEL (NON-STRUCTURAL VINYL WEATHER SEAL OPTIONAL IN SEAM) CONTINUOUS OVER TWO OR MORE SPANS WITHOUT LAPS.
- 2. CEE-CLIP (PANEL CLIP) ONE PIECE ASSEMBLY FABRICATED FROM NO. 24 MSG (MIN. YIELD STRENGTH 40,000 PSI) COATED STEEL. CEE-CLIP LOCATED AT EACH PANEL SIDE LAPS BEING PLACED AT 3'-0" O.C. MAXIMUM.
- 3. DECK 5/8" APA 40/20 PLYWOOD.
- 4. JOIST 2" X 4" AT 2'-0" O.C. MAXIMUM WITH #12 X 2" PAN HEAD WOOD SCREW AT 12" O.C. MAX, AT PLYWOOD TO JOIST CONNECTION AND AT PLYWOOD ENDS.
- 5. # 30 FELT UNDERLAYMENT.
- 6. FASTENERS (SCREWS) FOR ATTACHING "CEE-CLIP" (ITEM TWO) TO DECK USE NO. 10 PANCAKE HEAD TEKS STEEL SCREWS, TWO FASTENER PER "CEE-CLIP".



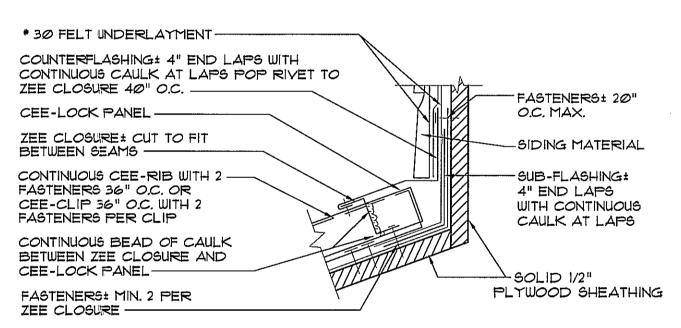
### **VALLEY DETAIL**

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' SPECIFICATIONS & DETAILS AS SHOWN ON THIS DRAWING, OR AN APPROVED PRODUCT OF EQUAL DESIGN.

BERRIDGE MANUFACTURING COMPANY 1720 MAURY STREET HOUSTON, TX 77026 1-800-237-8127 http://www.berridge.com

APPROVED ALTERNATE:

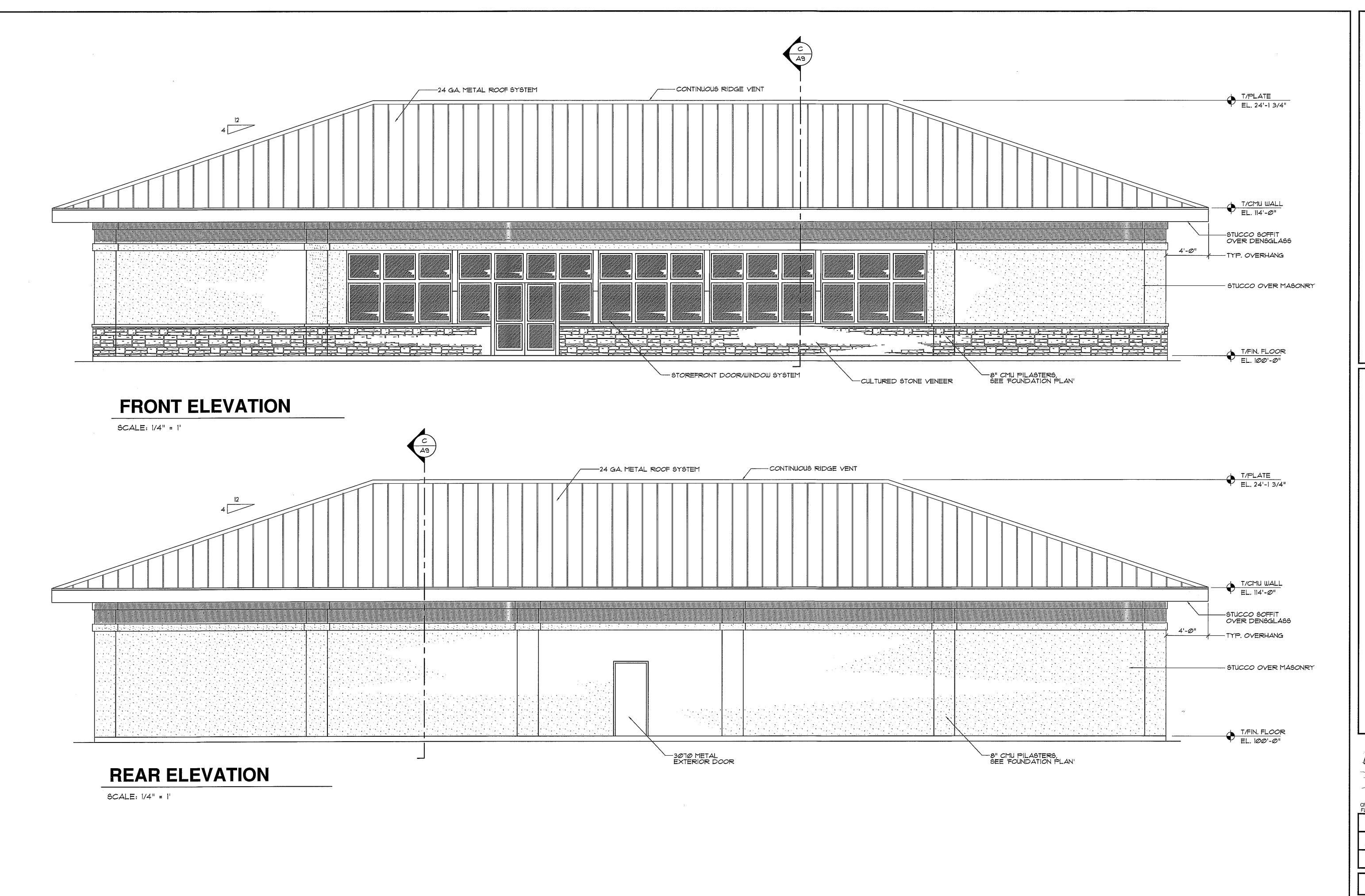
ENGLERT, INC. 1200 AMBOY AVENUE PERTH AMBOY, NJ Ø8862

### STANDING SEAM PANEL INSTALLATION NOTES

- . DOUBLE LAYER OF NUMBER THIRTY FELT UNDERLAYMENT OR EQUAL AND THE CEE-LOCK OPTIONAL VINYL WEATHERSEAL (US PATENT NO. 4,641,475) ARE RECOMMENDED FOR ALL APPLICATIONS WHERE THE ROOF SLOPE IS 3 ON 12 OR LESS
- 2. STRIPPABLE FILM: THE STRIPPABLE PLASTIC FILM WHICH IS APPLIED OVER MOST BERRIDGE PREFINISHED PRODUCTS, PANELS, FLASHINGS, COILS, AND FLAT SHEETS PROVIDES PROTECTION OF THE FINISH DURING FABRICATION AND TRANSIT. THIS FILM MUST BE REMOVED PRIOR TO INSTALLATION.
- 3. SOLID SHEATHING REQUIREMENTS: 5/8" PLYWOOD SHEATHING SHALL BE USED TO PROVIDE SUFFICIENT HOLDING POWER FOR FASTENERS.
- 4. SHEATHING INSPECTION:
- A. SHEATHING END JOINTS SHOULD BE STAGGERED.
- B. ALL END JOINTS SHOULD MEET AT EITHER A JOIST OR RAFTER.
- C. BLOCKING OR "H" CLIPS SHOULD BE USED IF JOISTS DO NOT REMAIN FLAT UNDER THE WEIGHT OF WORKMEN.
- D. 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".
- E. ALL CUTS AT PENETRATIONS SHOULD BE TIGHT, WITHOUT GAPS.
- F. USE WOOD-FRAMED CRICKETS AT LARGE PENETRATIONS.
- G. MAKE SURE SUBSTRATE JOINTS ARE TIGHT AT ALL HIPS, VALLEYS, AND RIDGES.
- 5. FASCIA/RAKE INSPECTION:
- A. STRIKE A LINE THE FULL LENGTH OF THE FASCIA OR RAKE. IF NOT STRAIGHT CORRECT WITH SHIMS.
- B. MAKE SURE FASCIA/RAKE IS FLUSH WITH SHEATHING.
- 6. 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 DEPICTED IN THE CEE-LOCK PANEL TYPICAL DETAILS. (THE UNDERLAYMENT MUST COVER THE ENTIRE ROOF DECKED SURFACE).
- T. FELTING INSTALLATION:
- A. DO NOT USE RED ROSIN PAPER UNDER METAL ROOFING PANELS. B. SWEEP ROOF AREA CLEAN.
- C. USE FLAT HEAD GALYANIZED ROOFING NAILS x 1 1/4" LONG WITH BERRIDGE GALVANIZED FELT CAPS.
- D. INSTALL VALLEY FELT FIRST.
- E. 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.
- 8. 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.
- 9. FLASHING INSTALLATION:
- A. REMOVE STRIPPABLE PLASTIC FILM FROM ALL FLASHINGS PRIOR TO INSTALLATION.
- B. ALWAYS STAGGER JOINTS WHEN ONE FLASHING IS INSTALLED OVER OTHER FLASHING.
- C. INSTALL ALL FLASHINGS AS PER BERRIDGE TYPICAL DETAILS.
- D. ALL FLASHINGS ARE TO BE DESIGNED AND INSTALLED TO NOT TRAP WATER.
- 10. PANEL INSTALLATION:
- A. REMOVE STRIPPABLE PLASTIC FILM FROM EACH PANEL PRIOR TO INSTALLATION.
- B. 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.
- C. BEGIN BY INSTALLING J-CLIP AND/OR DRIP FLASHING AT GABLE THEN PLACING FIRST CEE-LOCK CONTINUOUS LENGTH PANEL
- D. INSTALL CEE-LOCK CLIPS OR CONTINUOUS CEE-RIB AS PER BERRIDGE TYPICAL DETAILS AND CEE-LOCK CONTINUOUS RIB/CLIP INSTALLATION NOTES.
- E. IF OPTIONAL VINYL WEATHERSEAL (US PATENT 4,641,475) 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.
- F. 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
- G. EACH PANEL IS TO BE KEPT TIGHT AGAINST THE LEG OF THE ADJOINING PANEL. NEVER PERMIT A GAP BETWEEN VERTICAL LEGS.
- H. 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.
- J. 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.
- II. CEE-LOCK CLIP INSTALLATION:
- A. INSTALL CLIPS AT PER BERRIDGE TYPICAL CEE-LOCK PANEL DETAILS. B. CLIP SPACING ON SOLID SHEATHING TYPICALLY 36" ON CENTER.

RECESSED BELOW THE ELEVATION OF THE SUBSTRATE.

- 12. FASTENERS: PLATED 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
- 13. SEALANT RECOMMENDATIONS: TREMCO, INC. SPECTREM I SILICONE SEALANT,



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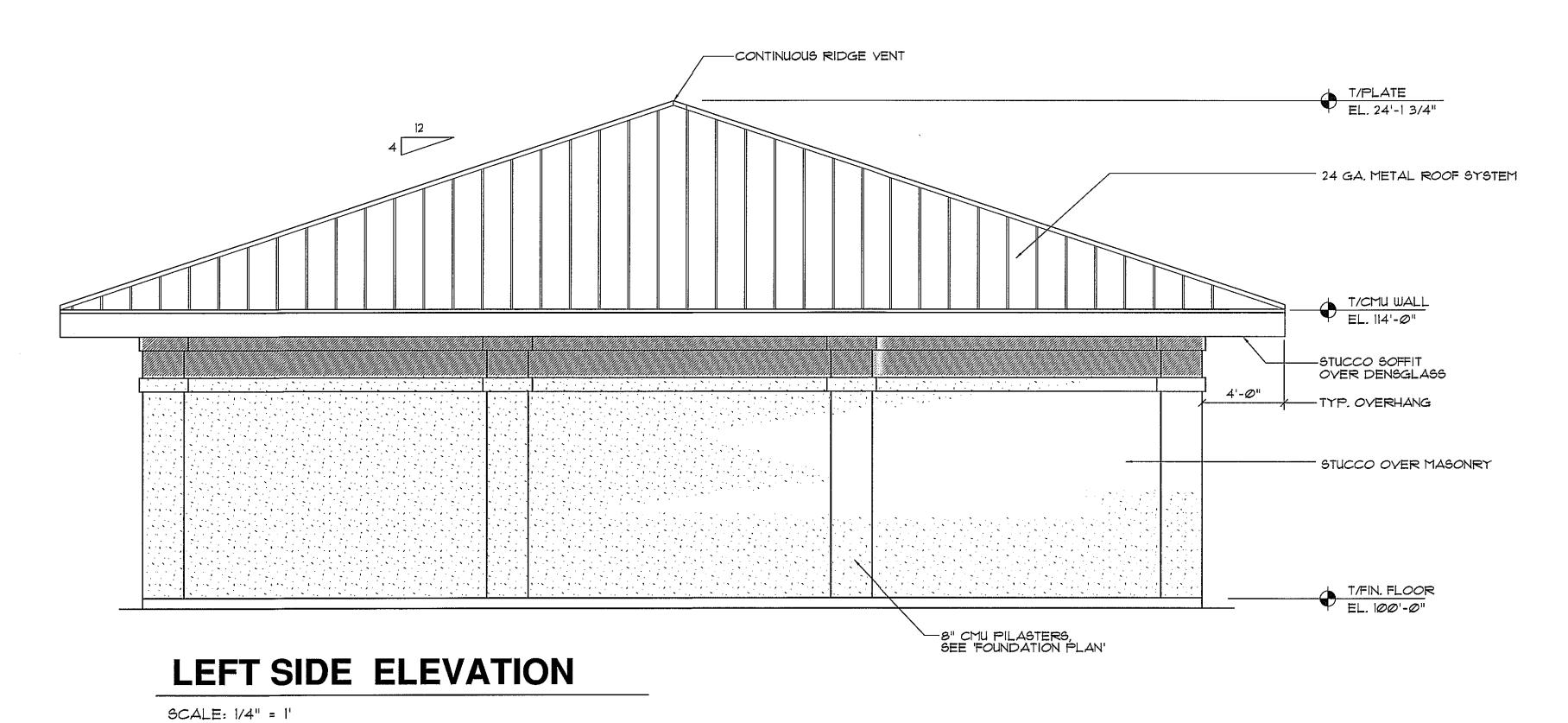
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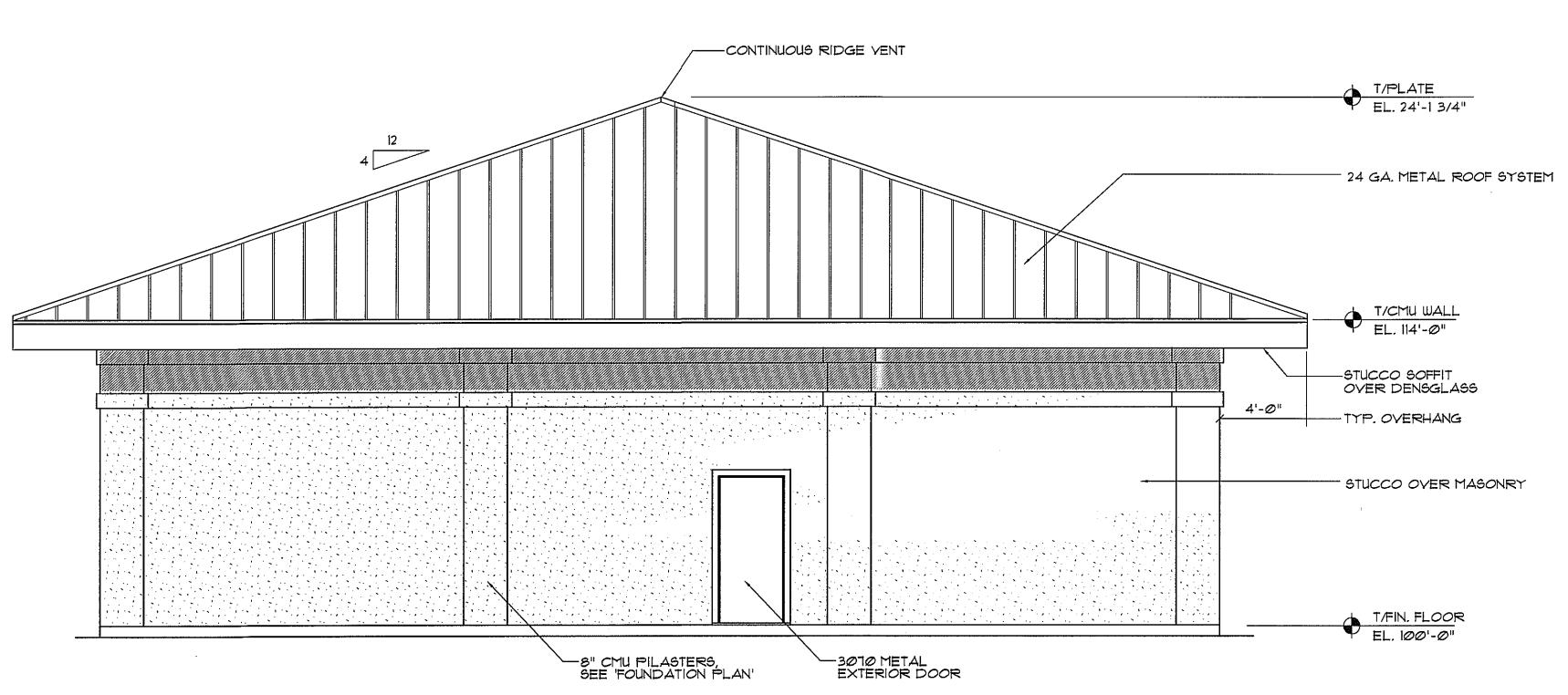
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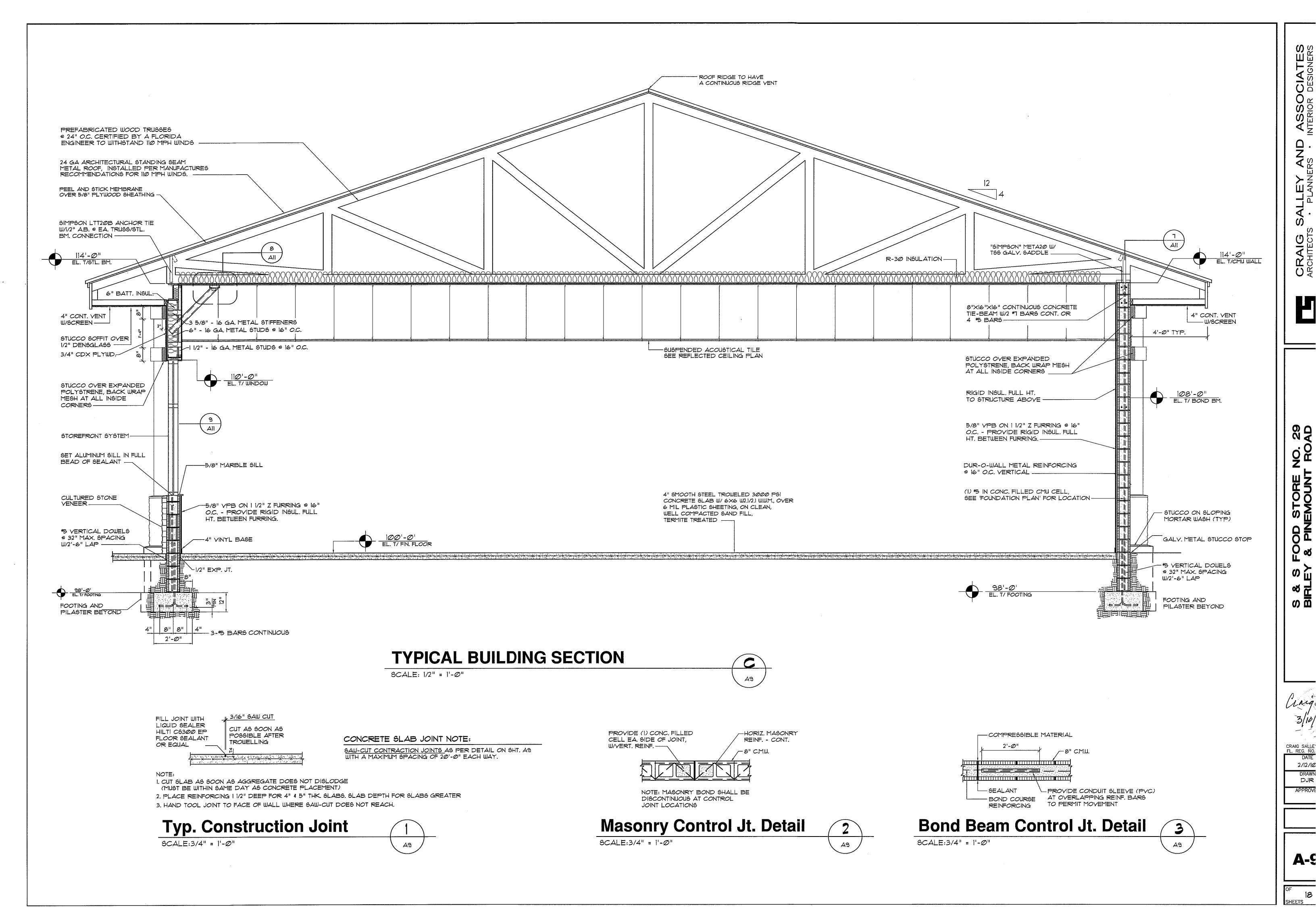
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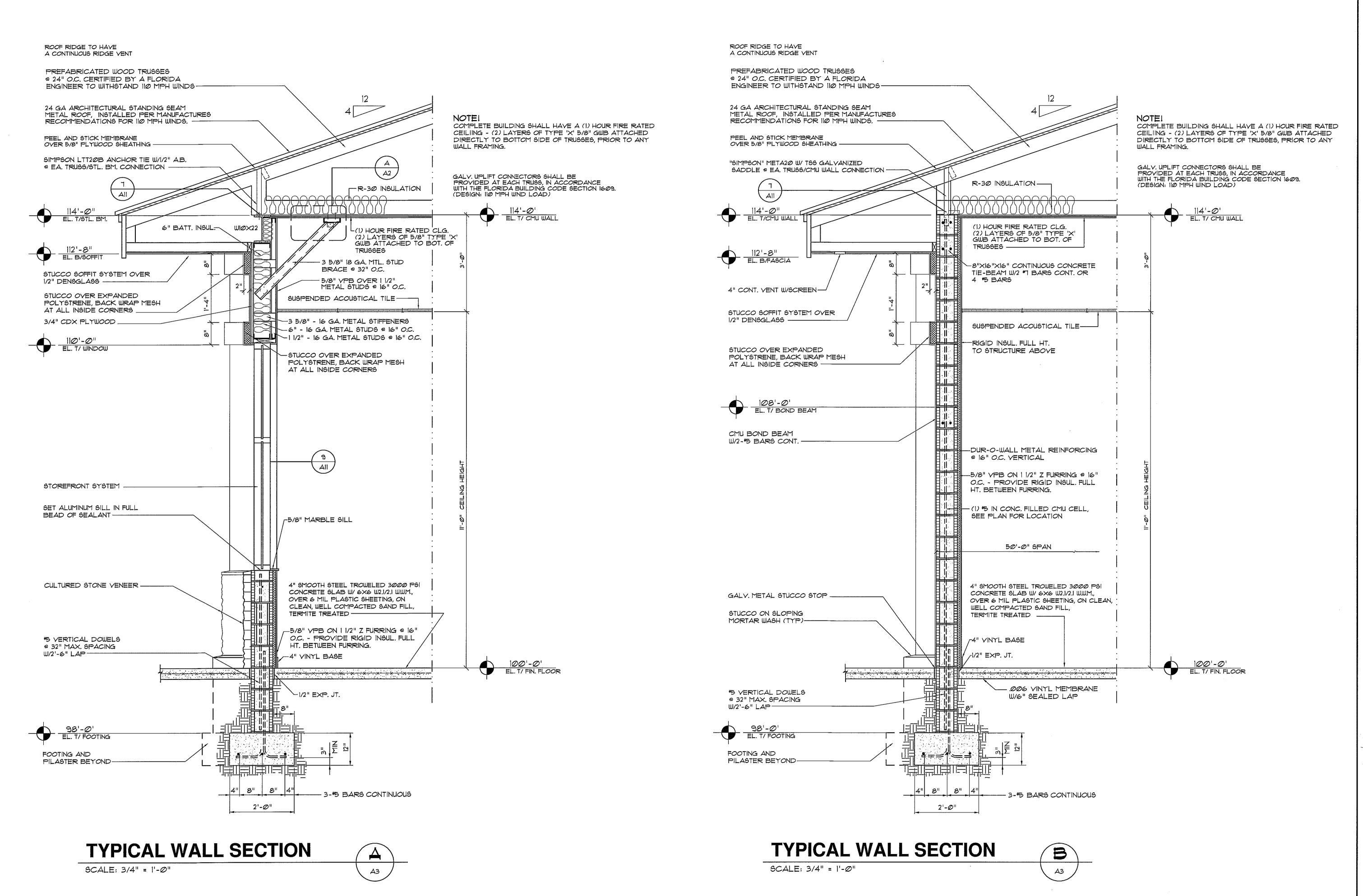




RIGHT SIDE ELEVATION

SCALE: 1/4" = 1'





IG SALLEY AND ASSOCIATES

ECTS · PLANNERS · INTERIOR DESIGNERS

FRY ROAD · GAINESVILLE, FLORIDA · LIC. NO. AA0002479 · 352-372-8424

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S FOOD STORE NO. 29 EY & PINEMOUNT ROAD

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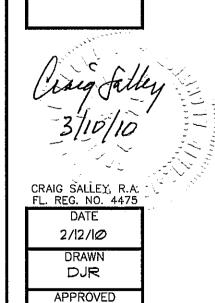
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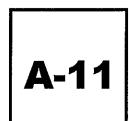




- MARBLE SILL

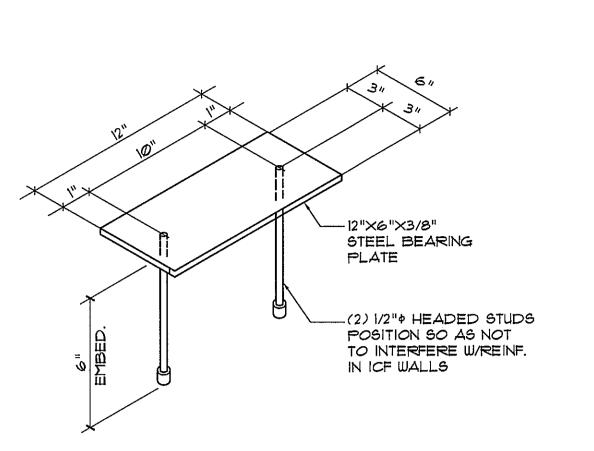




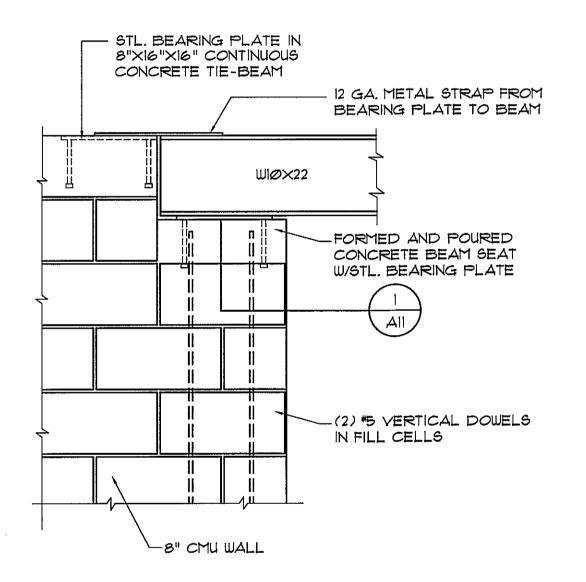




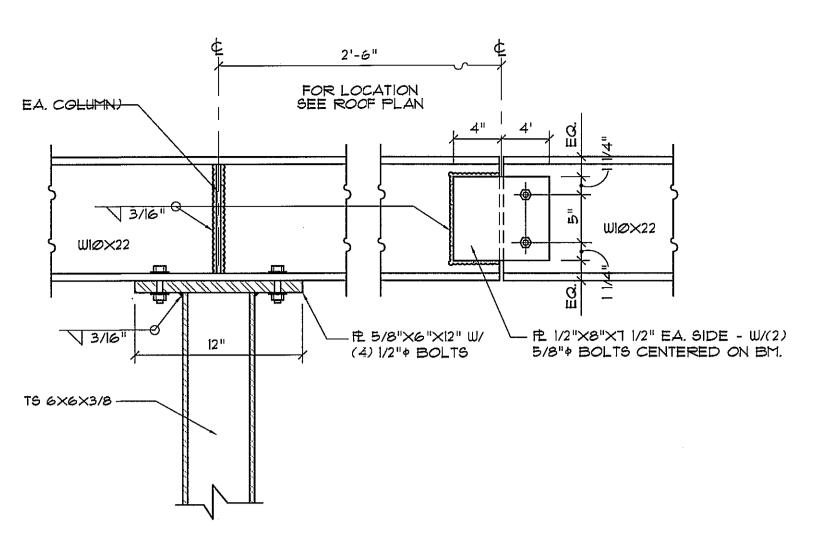












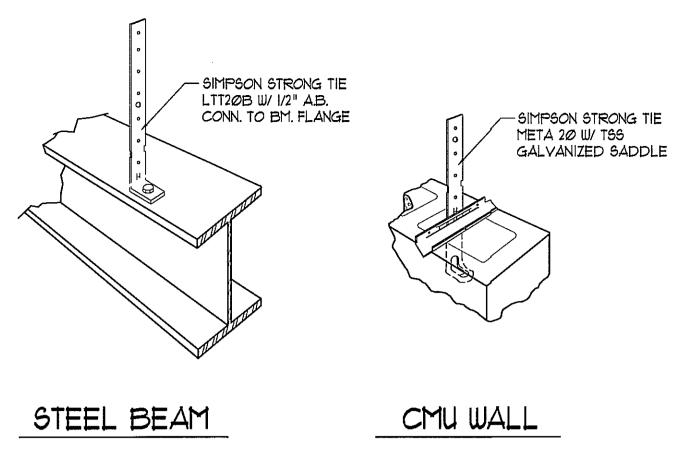


CONC. FILLED CELL

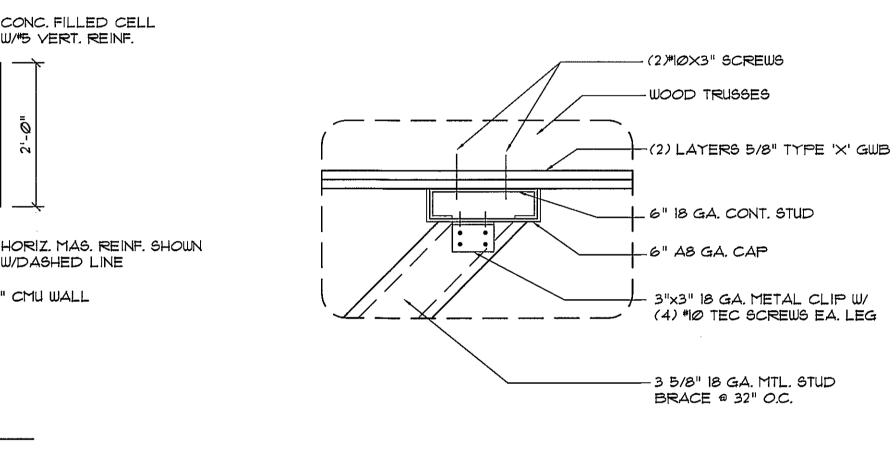
PILASTER

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

SEE FOUNDATION PLAN' FOR LOCATIONS







-CONC. FILLED CELL

W/DASHED LINE

-8" CMU WALL

CORNER

- 4" SMOOTH STEEL TROWELED 3000 PSI

CONCRETE SLAB W/ 6×6 W2.1/2.1 W.W.M.,

WELL COMPACTED SAND FILL,

TERMITE TREATED

--- 1/4" EXP. JT.

OVER 6 MIL PLASTIC SHEETING, ON CLEAN

W/2'-6" LAP

\*5 VERTICAL DOWELS

9 32" MAX. SPACING





ALUMINUM HEAD RECEPTOR -

HEAD

INTERMEDIATE RAIL

- 4" SMOOTH STEEL TROWELED 3000 PSI

OVER 6 MIL PLASTIC SHEETING, ON CLEAN,

CONCRETE SLAB W/ 6×6 W2.1/2.1 W.W.M.,

WELL COMPACTED SAND FILL,

SLOPE: 1/8"/FT.

PROVIDE \*5 REBAR DOWELLS WITH STANDARD ACI

PROVIDE ELL TIE BAR, TO EXTEND A MINIMUM OF 48" ALONG THE O/S REBAR, AS SHOWN

- EXTEND FOOTING REINF'G INTO ADJACENT FOOTINGS,

- FOOTINGS, AS SCHEDULED - SEE DWG. A4

- 8" × 16" CMU, RUNNING BOND

HOOK, TO EXTEND ABOVE TOP OF FOOTING A MIN.

OF 40 BAR DIAMETERS FOR LAP SPLICE TO WALL

TERMITE TREATED

STOREFRONT DETAILS

ALUMINUM TOP SASH -

INSULATED - LOW 'E' 1/4" TEMPERED GLASS -

INSULATED - LOW 'E' 1/4" TEMPERED GLASS

ALUMINUM MID. RAIL

INSULATED - LOW 'E' 1/4" TEMPERED GLASS -

INSULATED - LOW 'E' 1/4" TEMPERED GLASS -

ALUMINUM BOT, SASH-

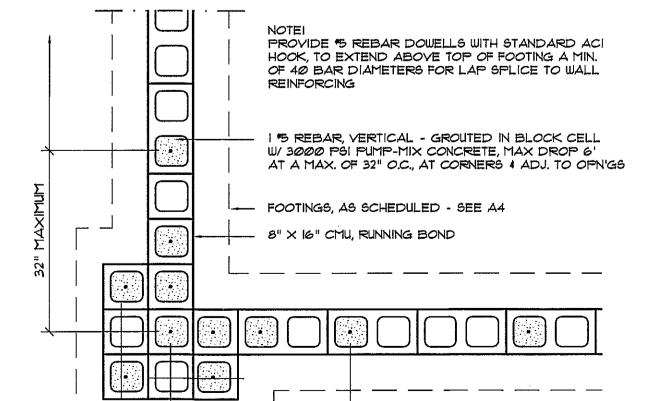
SCALE: NTS

\*5 BAR CONT.

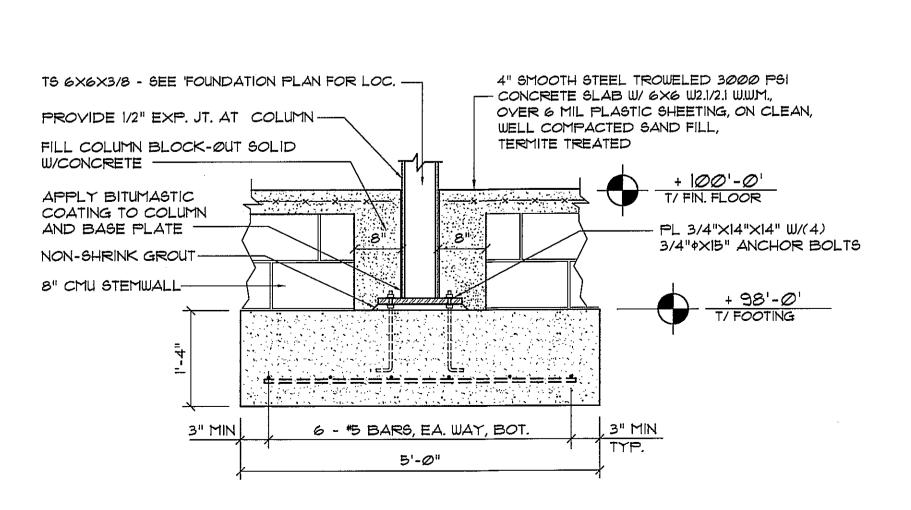
25" MIN. LAP---7

ALUMINUM PAN -



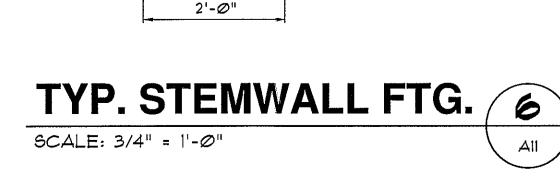




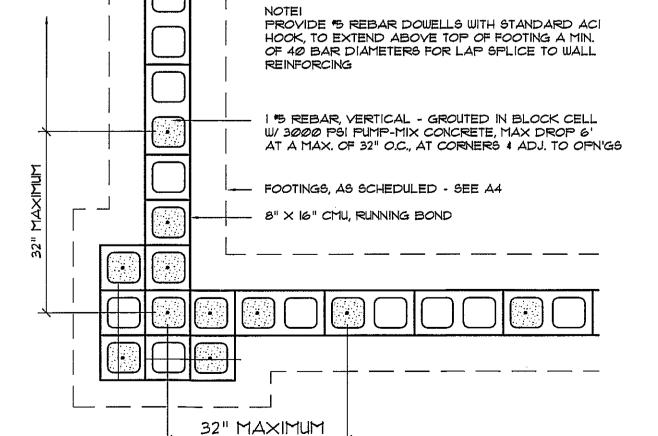


TYP. STEEL COLUMN FTG. 3

SCALE: 3/4" = 1'-0" TYP (4) LOCATIONS



CORNER/PILASTER REINF. DETAIL



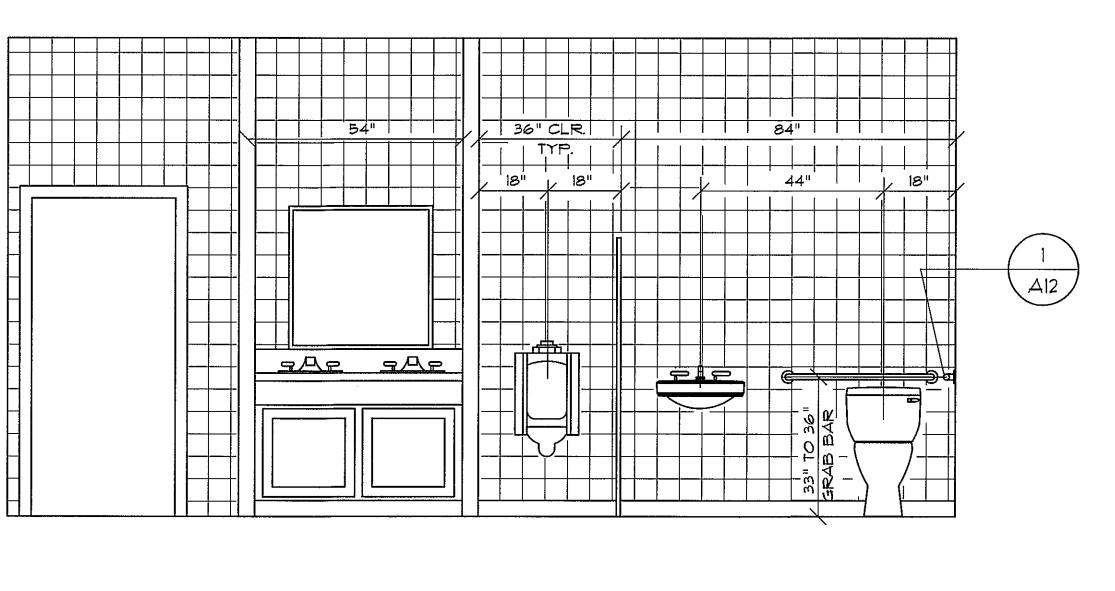


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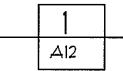
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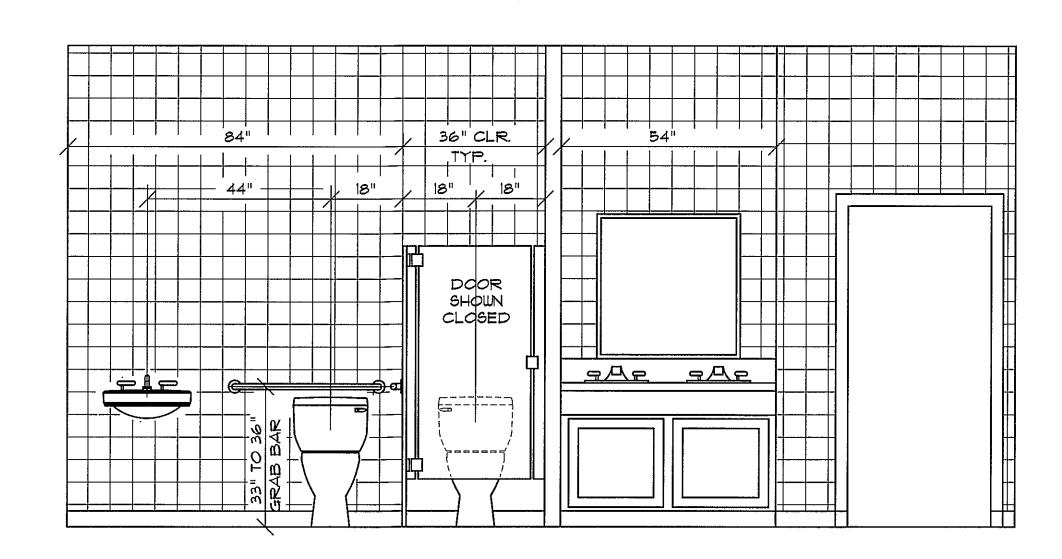
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## INTERIOR ELEVATION

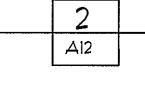
SCALE 1/2" = 1'-0" - MENS RESTROOM

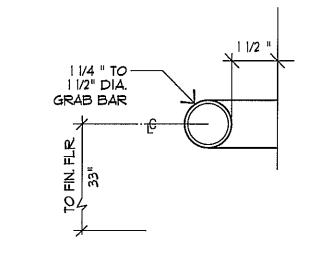




## INTERIOR ELEVATION

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





## GRAB BARS AT WATER CLOSET (511.1A-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

## **TYP. GRAB BAR DETAIL**

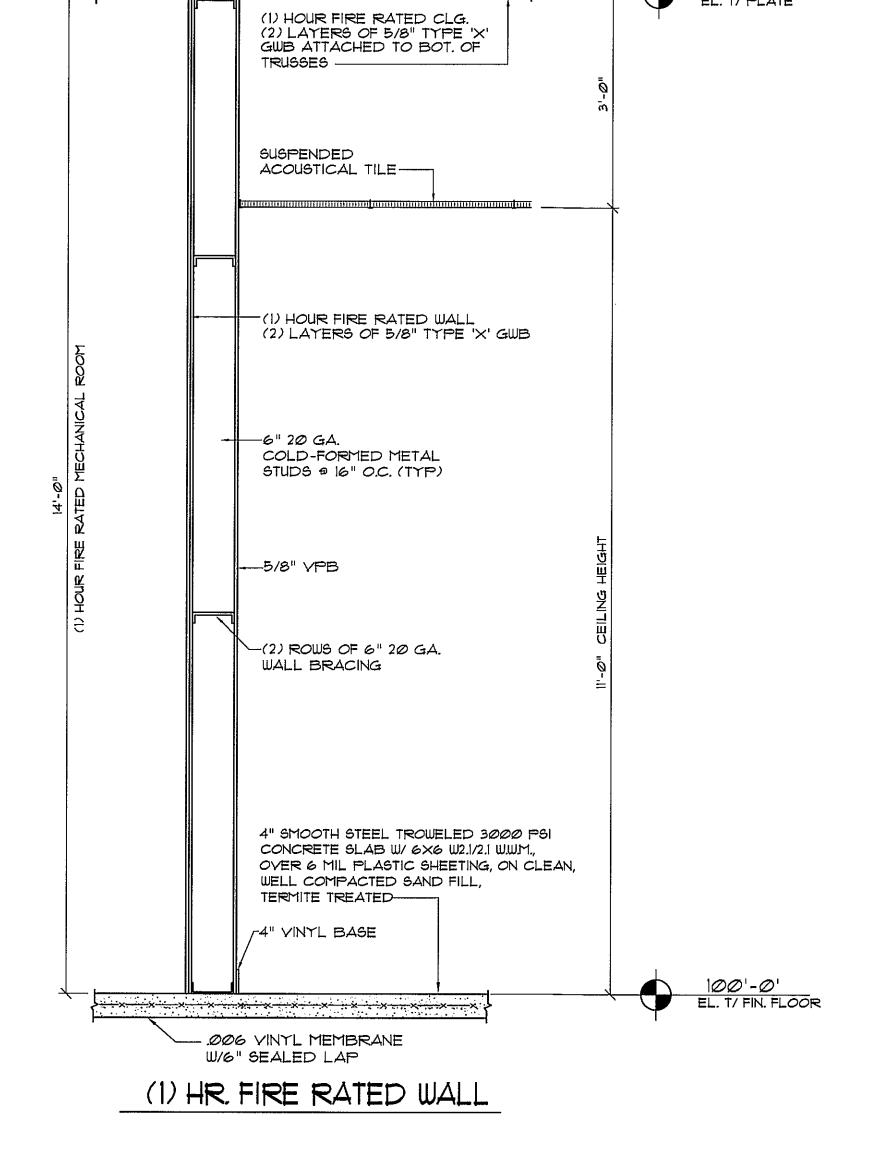
SCALE : NONE



INTERIOR ELEVATION

SCALE 1/2" = 1'-0" - TYP. HANDICAP RESTROOM | A12

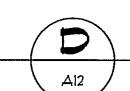




R-30 INSULATION ---

## TYPICAL WALL SECTION

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



## **TYPICAL WALL SECTION**

R-30 INSULATION ---

TRUSSES -

SUSPENDED

----3 5/8" 20 GA.

---5/8" VPB

COLD-FORMED METAL

STUDS @ 16" O.C. (TYP)

`—(2) ROWS OF 3 5/8" 2Ø GA.

4" SMOOTH STEEL TROWELED 3000 PSI

OVER 6 MIL PLASTIC SHEETING, ON CLEAN,

CONCRETE SLAB W/ 6X6 W2.1/2.1 W.W.M.,

WELL COMPACTED SAND FILL,

TERMITE TREATED-

74" VINYL BASE

-.006 VINYL MEMBRANE W/6" SEALED LAP

WALL BRACING

ACOUSTICAL TILE ----

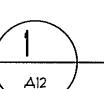
acconocacabas

(1) HOUR FIRE RATED CLG.

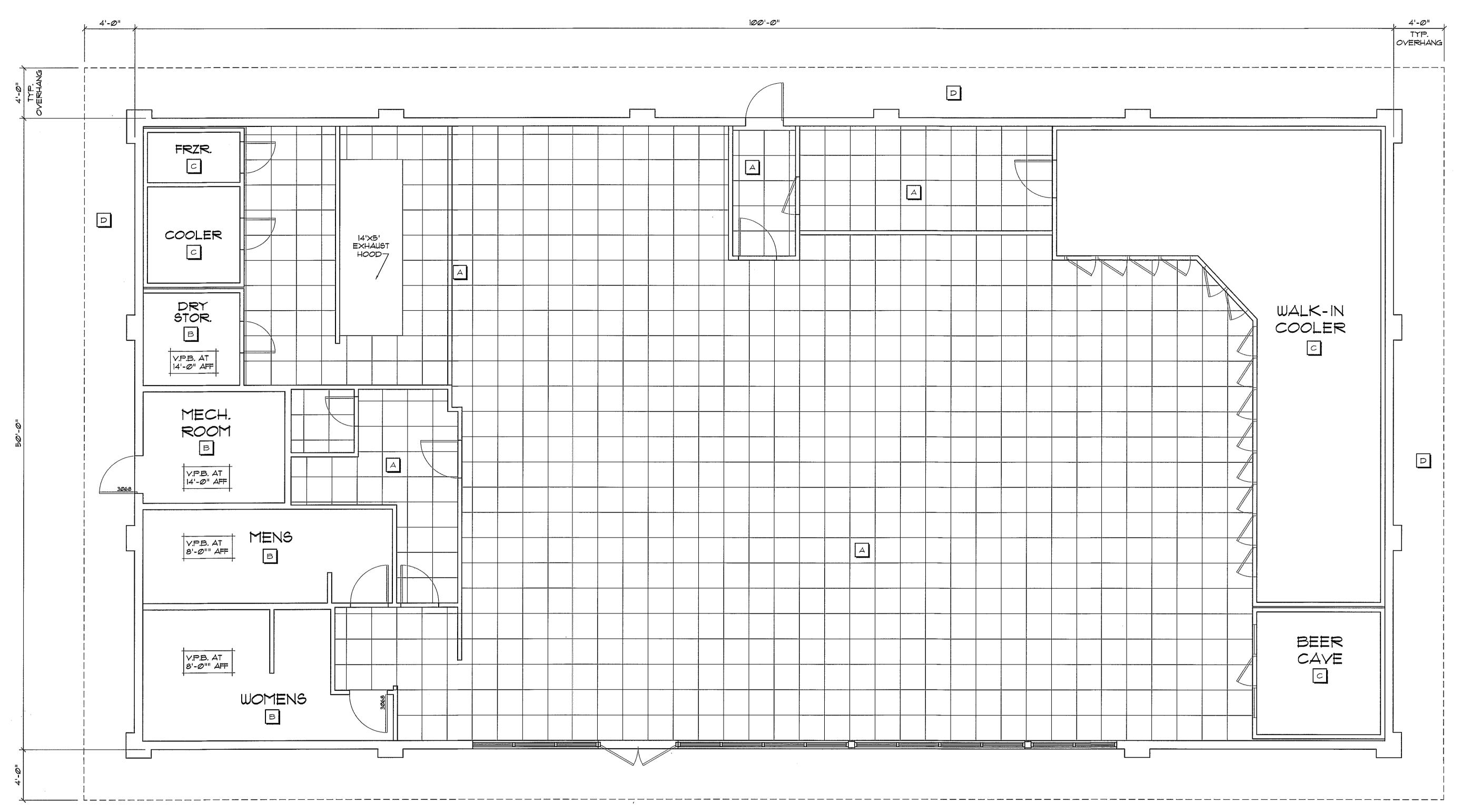
(2) LAYERS OF 5/8" TYPE 'X'
GWB ATTACHED TO BOT. OF

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





**A-12** 



## 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 II'-O" ABOVE THE FINISHED FLOOR - UNLESS NOTED OTHERWISE

## CEILING TYPES

- ACCOUSTICAL TILE, 24" × 24" × 3/4" ANGLED TEGULAR W/ PRELUDE 15/16" EXPOSED TEE GRID
- B 5/8" VPB, 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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COMPLETE BUILDING SHALL HAVE A (1) HOUR FIRE RATED

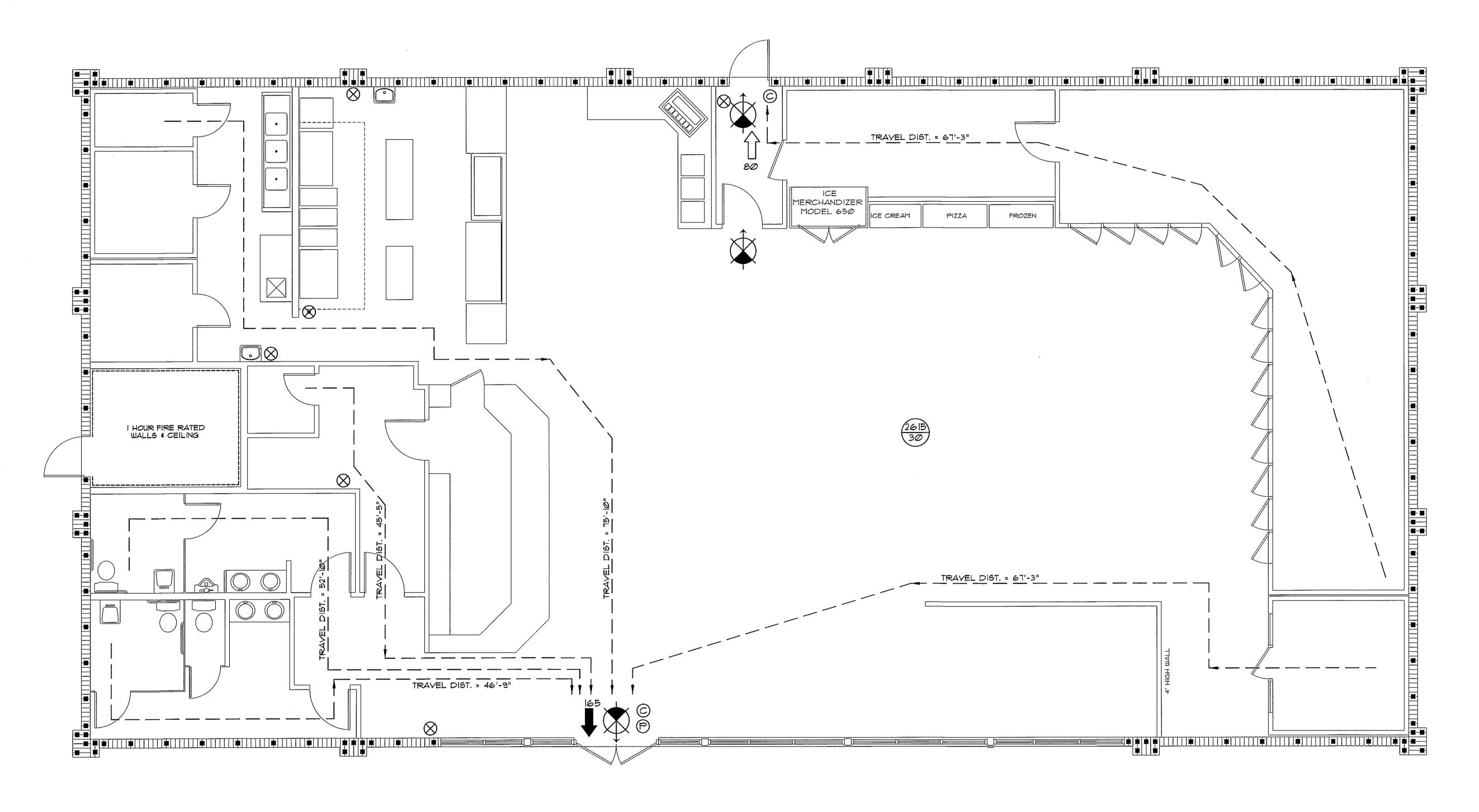
CEILING - (2) LAYERS OF TYPE 'X' 5/8" GWB ATTACHED

DIRECTLY TO BOTTOM SIDE OF TRUSSES, PRIOR TO ANY WALL FRAMING.

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A-14

OF 18 SHEETS



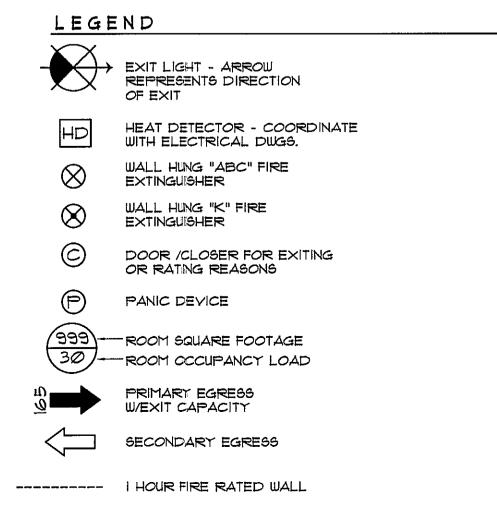
## LIFE SAFETY PLAN

SCALE: 1/4" = 1'

TOTAL SF.	ALLOWABLE	TOTAL OCCUP.
2615	1/30	87
683	1/200	4
162	1/100	2
122	1/300	1
	2615 683 162	2615 1/30 683 1/200 162 1/100

EXIT ACCESS TRAVEL DISTANCE PER FBC 1016, TABLE 1016.1

OCCUPANCY - MERCHANTILE:
150 FT. (W/O SPRINKLER SYSTEM)



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.

- 2. ANY MENTION IN THESE SPECIFICATIONS OR INDICATION ON THE DRAWINGS OF ARTICLES, MATERIALS, OPERATIONS, METHODS, ETC. REQUIRES THAT THE CONTRACTOR FURNISH EACH ITEM SO MENTIONED OR INDICATED, OF THE KIND, TYPE OR DESIGN AND QUALITY SPECIFIED OR SHOWN ON THE DRAWINGS. THE CONTRACTOR SHALL PROVIDE ALL NECESSARY SUPERVISION TO COMPLETE THE WORK IN ACCORDANCE WITH THE DRAWINGS AND INTENT OF THESE SPECIFICATIONS EVEN THOUGH SUCH MENTION OF ARTICLES, MATERIALS, OPERATIONS, METHODS, QUALITY, QUALIFICATIONS OR CONDITIONS IS NOT EXPRESSED IN COMPLETE SENTENCES.
- 3. WHERE DEVICES, ITEMS OR PARTS THEREOF, ARE REFERRED TO IN THE SINGULAR, IT IS INTENDED THAT SUCH REFERENCE SHALL APPLY TO AS MANY SUCH DEVICES, ITEMS OR PARTS AS ARE REQUIRED TO PROPERLY COMPLETE ALL DIVISIONS OF THE WORK IN THE SCOPE OF THIS PROJECT.
- 4. SCHEDULES OF WORK INCLUDED IN THESE SPECIFICATIONS ARE GIVEN FOR CONVENIENCE AND SHALL NOT BE CONSIDERED AS A COMPREHENSIVE LIST OF ITEMS NECESSARY TO COMPLETE THE WORK AS DESCRIBED, DRAWN AND SPECIFIED
- THE CONTRACTOR SHALL COORDINATE THE WORK COVERED HEREAFTER DESCRIBED WITH THE WORK OF OTHERS INVOLVED IN THIS PROJECT. THE NECESSARY INFORMATION AND THE ITEMS, MATERIALS AND EQUIPMENT SHALL BE DELIVERED WHEN REQUIRED IN ORDER TO PREVENT ANY DELIAY IN THE PROGRESS AND COMPLETION OF WORK.
- 6. FIELD VERIFY ALL EXISTING CONDITIONS, DIMENSIONS AND DETAILS AND NOTIFY THE ARCHITECT IN WRITING OF ANY DISCREPANCIES PRIOR TO PROCEEDING WITH THE WORK.
- 7. ALL WORK SHALL CONFORM TO THE REQUIREMENTS OF ALL LOCAL GOVERNING AGENCIES AND CODES.
- 6. CONTRACTOR SHALL PROVIDE TEMPORARY WATER, POWER AND TOILET FACILITIES AS REQUIRED BY CODE OR ORDINANCE.
- 1. IF REQUIRED, A CONSTRUCTION BARRICADE SHALL BE INSTALLED BY THE CONTRACTOR THAT IS AS REQUIRED BY THE GOVERNING AUTHORITY. NO SIGNS OTHER THAN THOSE AUTHORIZED BY THE OWNER WILL BE PERMITTED ON THIS BARRICADE.
- 10. CONTRACTOR SHALL PAY FOR ALL CONSTRUCTION RELATED PERMITS AND FEES REQUIRED TO CONSTRUCT THIS PROJECT.
- II. APPROVED CONSTRUCTION PERMIT DOCUMENTS SHALL BE KEPT IN A PLAN BOX AND SHALL NOT BE USED BY ANY WORKMEN. ALL CONSTRUCTION SETS SHALL REFLECT THE SAME INFORMATION. THE CONTRACTOR SHALL ALSO MAINTAIN, IN GOOD CONDITION, ON THE PREMISES AT ALL TIMES UNDER THE CARE OF THE SUPERINTENDENT. ONE COMPLETE SET OF PLANS WITH ALL REVISIONS, ADDENDA, AS-BUILT CONDITIONS, AND CHANGE ORDERS POSTED. THE CONTRACTOR MUST TURN THIS DRAWING SET OVER TO THE OWNER AT THE COMPLETION OF THIS PROJECT.
- 12. THE CONTRACTOR SHALL VERIFY AND CONFORM TO ALL REQUIREMENTS OF ALL UTILITY COMPANIES WHENEVER ANY MATERIAL, EQUIPMENT OR METHOD IS SPECIFIED OR INDICATED BY PROPRIETARY NAME OR MANUFACTURER, THE MATERIAL, EQUIPMENT, METHOD SO SPECIFIED OR INDICATED SHALL BE DEEMED TO BE FOLLOWED BY THE WORDS "OR EQUAL" EXCEPT IN THOSE CASES WHERE ITEMS SPECIFIED BY NAME ARE MARKED "NO SUBSTITUTE."
- 13. ALL WORK IS TO BE DONE IN THE BEST WORKMANLIKE MANNER
- 14. ALL WORK SHALL BE GUARANTEED FOR A PERIOD OF ONE (1) YEAR AFTER COMPLETION, EXCEPT AS OTHERWISE SPECIFIED. ALL WARRANTY REPAIRS, CORRECTIONS, DISCREPANCIES, ETC. MUST BE MADE WITHOUT ANY ADDITIONAL COST TO THE OWNER, AND WITHIN FIVE (5) DAYS AFTER NOTICE IS GIVEN.
- 15. CONTRACTOR SHALL BE RESPONSIBLE FOR THE COMPLETE SECURITY OF THE BUILDING AND SITE WHILE JOB IS IN PROGRESS AND UNTIL JOB IS COMPLETED.
- 16. ALL DEBRIS SHALL BE REMOVED FROM PREMISES AND ALL AREAS SHALL BE KEPT IN A CLEAN (BROOM) CONDITION AT ALL TIMES.
- 17. CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO ENSURE THE SAFETY OF THE WORKERS, OWNER'S STAFF AND CUSTOMERS AT ALL TIMES.
- 18. DO NOT SCALE DRAWINGS. DIMENSIONS GOVERN. CONTRACTOR SHALL NOTIFY ARCHITECT IMMEDIATELY OF ANY DISCREPANCIES.
- 19. ALL ITEMS MARKED "N.I.C." ARE NOT PART OF THIS CONTRACT. CERTAIN ITEMS MAY BE SUPPLIED BY THE OWNER BUT INSTALLED BY THE CONTRACTOR. CAREFULLY REVIEW THE DRAWINGS AND SCHEDULES.
- 20. ALL WORK SHALL BE CONSTRUCTED OR INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S LATEST RECOMMENDATIONS OR WRITTEN DIRECTIONS.
- 21. REPAIR AND/OR REPLACE ANY AND ALL BROKEN AND DAMAGED CONCRETE WORK. CONTRACTOR SHALL BE RESPONSIBLE FOR MEETING THE REQUIREMENTS OF LOCAL GOVERNING AGENCIES.

## GRADING, COMPACTION, EXCAVATION AND SITE WORK

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

- 3. 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.
- 4. 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.
- 5. ALL FOOTINGS SHALL BE ON UNDISTURBED NATURAL SOIL OR APPROVED ENGINEERED COMPACTED FILL. REFER TO FOUNDATION PLAN AND DETAILS.

#### CUTTING AND PATCHING

- "CUTTING AND PATCHING" IS HERE BY DEFINED TO INCLUDE, BUT IS NOT LIMITED TO, THE CUTTING AND PATCHING OF NORMALLY COMPLETED OR PREVIOUSLY EXISTING WORK, IN ORDER TO ACCOMMODATE THE CONDITION OF WORK, OR THE INSTALLATION OF OTHER WORK, OR TO UNCOVER OTHER WORK FOR ACCESS OR INSPECTION, OR 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.
- 2. 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.
- 3. 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.
- 4. PROVIDE SUPPORTS TO ASSURE STRUCTURAL INTEGRITY OF SURROUNDINGS; DEVICES AND METHODS TO PROTECT OTHER PORTIONS OF THE PROJECT FROM DAMAGE. PROVIDE PROTECTION FROM ELEMENTS FOR AREAS WHICH MAY BE EXPOSED BY UNCOVERING WORK. MAINTAIN EXCAVATIONS FREE OF WATER.
- REFINISH SURFACES TO MATCH ADJACENT FINISHES. FOR CONTINUOUS SURFACES, REFINISH TO NEAREST INTERSECTION, FOR AN ASSEMBLY, REFINISH ENTIRE UNIT; FOR PATCHES IN WALLS, REFINISH WALL-TO-WALL AND FLOOR TO CEILING; FOR PATCHES IN MASONRY WALLS, CUT OUT FACE SHELL OF BLOCK AND REPLACE.
- 6. IT IS ENVISIONED THAT A CONSTRUCTION DUMPSTER WILL BE IN PLACE ON THE SITE AND EMPTIED AT AN APPROVED DUMP AS REQUIRED.

#### DEMOLITION

- I. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO CAREFULLY REVIEW THE CONTRACT DOCUMENTS AND REMOVE ANY ITEMS IDENTIFIED ON THE CONTRACT DOCUMENTS OR REQUIRED TO ACCOMPLISH THE NEW CONSTRUCTION TO THE DEPTH REQUIRED, WHERE INTERFERENCE WITH NEW UNDERGROUND CONSTRUCTION WILL OCCUR.
- 2. PROTECTIONS: ENSURE THE SAFE PASSAGE 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.
- 3. 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 PROPERITY.
- 5. 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. AND INDUSTRY STANDARDS.
- 2. REINFORCING STEEL SHALL BE INTERMEDIATE GRADE ASTM A-15 AND ASTM A-305. MINIMUM LAP SHALL BE 30 BAR DIAMETERS OR MORE IF NOTED ON THE DRAWINGS. REINFORCEMENT SHALL BE FREE OF SCALE, RUST OR OTHER COATINGS WHICH WOULD REDUCE BOND TO CONCRETE. MAINTAIN 3" MINIMUM COVER AROUND STEEL AT ALL BELOW GRADE LOCATIONS.
- 3. WELDED WIRE FABRIC SHALL BE INSTALLED IN ALL FLOOR SLABS AND SIDEWALKS AND SHALL BE 6 X 6 X WI.4 X WI.4 M.W.F. ASTM A-185. CONCRETE FLOOR SLABS SHALL BE AS INDICATED ON THE DRAWINGS.
- 4. ALL CONCRETE FLOOR SLABS AND WALKS SHALL BE A MINIMUM OF 4" THICK.
  UNLESS OTHERWISE NOTED TO BE THICKER. NOTE RECESSED AREAS FOR HARD TILE.
- 5. MAKE PROPER PROVISIONS FOR AND INSTALL ALL SCREEDS, GROUNDS, BOLTS, CURBS, DRAINS, ETC. COORDINATE WITH ALL OTHER TRADES INVOLVED PRIOR TO PLACING CONCRETE. SLOPE SLABS TO DRAINS AND/OR AS SHOWN ON THE DRAWINGS.
- 6. PROVIDE AND INSTALL 6 MIL POLYETHYLENE MOISTURE BARRIER UNDER ALL INTERIOR SLABS, LAP AND TAPE ALL JOINTS. USE CAUTION SO AS NOT TO PUNCTURE MOISTURE BARRIER PRIOR TO SLAB POUR.
- 7. SAW OUT 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.
- 8. ALL INTERIOR FLOOR SLABS SHALL BE SMOOTH TROWELED FINISH, FREE FROM MARKS AND BLEMISHES.
- MHEN FREEZING TEMPERATURES PREVAIL 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.
- 3. CEMENT MORTAR SHALL CONSIST OF I PART PORTLAND CEMENT (TYPE I OR TYPE II LOW ALKALI), I/4 PART HYDRATED LIME, SAND (3 I/2 TIMES THE SUM OF THE VOLUME OF CEMENT AND LIME)
- 4. 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.
- 5. HORIZONTAL JOINT REINFORGEMENT 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).
- 3. 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.
- 4. 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.
- 5. 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.
- 6. ALL STRUCTURAL STEEL SHALL BE PRIME COATED IN SHOP PRIOR TO DELIVERY ON JOB.
- ALL EXTERIOR EXPOSED STEEL SHALL BE GALVANIZED.
- 8. THE CONTRACTOR SHALL COORDINATE THE PLACEMENT OF ALL EMBED ITEMS.
- 9. THE CONTRACTOR SHALL NOT PERMIT THE INSTALLATION OF ROOFING COMPONENTS
  UNTIL JOISTS ARE BRACED AND BRIDGING INSTALLED IN ACCORDANCE WITH APPROVED
  SHOP DRAWINGS.
- 10. DO NOT FIELD CUT OR ALTER STRUCTURAL MEMBERS WITHOUT THE ARCHITECT'S WRITTEN APPROVAL.
- II. METAL DECKING SHALL BE EITHER 20 GAUGE TYPE I.OE 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.
- 2. 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'-O" O.C. VERTICALLY, CLIPS AND REINFORCED AS INDICATED
- 3. 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 PINE.
- 2. ALL LUMBER SHALL BE GRADE MARKED PER AREA STANDARDS.
- 3. WOOD BLOCKING SHALL BE NO. 2 PINE OR DOUGLAS FIR STANDARD GRADE.
- 4. CARPENTRY MATERIALS SHALL BE AS LISTED BELOW:
- A. PLYWOOD SHALL BE MINIMUM GRADE C-D WITH EXTERIOR GLUE, MINIMUM 5/8" THICK.
- 5. PLASTIC LAMINATES SHALL BE AS SELECTED BY OWNER AND SHALL BE INSTALLED AS PER MANUFACTURER'S SPECIFICATIONS.
- 6. 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.
- 7. 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 SHELVING AND SINKS.

#### INSULATION

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

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#### ROOFING

- . ALL ROOFING INSTALLATIONS SHALL COMPLY WITH N.R.C.A. AND S.M.A.C.N.A. STANDARDS.
- 2. DELIVER, STORE AND HANDLE MATERIALS AND EQUIPMENT SO AS TO PREVENT DAMAGE OR DETERIORATION.
- 3. BUILT-UP ROOF SYSTEM SHALL CONSIST OF A TWO PLY, GRANULAR SURFACED, CLASS A RATED MODIFIED BITUMEN SYSTEM BY ONE OF THE FOLLOWING MANUFACTURERS: SIPLAST, SOPREMA, JOHNS MANVILLE OR AN APPROVED EQUAL
- 4. ROOF MEMBRANE AND SUBSTRATE SHALL RESIST 110 M.P.H. WIND UPLIFT (FM 1-90) ACCORDING TO BASIC WIND LOAD PRESSURES PER
- 5. ROOF INSULATION SHALL BE POLYISOCYRANURATE, OF A THICKNESS NECESSARY TO MAINTAIN AN AGED VALUE OF R-20 AND A SLOPE OF 1/4" PER FOOT MINIMUM.
- 6. ALL ANCILLARY ITEMS, FASTENERS, ROOFING ASPHALT, ROOFING CEMENT, CANT STRIPS, ECT. AS REQUIRED FOR A WEATHERTIGHT INSTALLATION.
- 7. SEE DRAWINGS FOR SPECIFIC DETAILS.
- 8 REFERENCES
- A. MANUFACTURER'S RECOMMENDATIONS AND SPECIFICATIONS
- B. ASTM STANDARDS AND TEST PROCEDURES AS REFERENCED HEREIN.
- C. SHEET METAL AND AIR CONDITIONING CONTRACTORS NATIONAL ASSOCIATION (SMACNA): LATEST EDITION.
- D. NATIONAL ASSOCIATION OF ARCHITECTURAL METAL MANUFACTURERS (NAAMM)
  STANDARDS AS REFERENCED HEREIN, LATEST EDITION.
- E. FLORIDA BUILDING CODE, CURRENT EDITION WITH UPDATES.
- THE ROOFING CONTRACTOR SHALL VERIFY ALL DIMENSIONS, SHALL MAKE ANY FIELD MEASUREMENTS NECESSARY AND SHALL BE FULLY RESPONSIBLE FOR ACCURACY AND LAYOUT OF WORK.
- O. ROOF JACKS AND CURBS: PANEL MANUFACTURER'S PROFILE; SIZES SHALL BE COORDINATED WITH APPLICABLE MECHANICAL EQUIPMENT. FURNISH AND INSTALL ALL ROOF CURBS REQUIRED FOR ALL ROOF PENETRATIONS ON THIS PROJECT.
- I. FLASHING BOOT: STANDARD PROFILE; SIZES SHALL BE COORDINATED WITH MECHANICAL AND PLUMBING VENTS THROUGH ROOF. FURNISH AND INSTALL ALL BOOTS AT PLUMBING STACKS ON THIS PROJECT.
- 12. ROOFING CONTRACTOR SHALL ISSUE THE OWNER A WRITTEN GUARANTEE
  TO MAINTAIN THE ROOFING, FLASHINGS, COUNTER FLASHINGS IN A WATERTIGHT CONDITION FOR A PERIOD OF TWO (2) YEARS FROM FINAL COMPLETION.

#### SHEET METAL

- I. ALL SHEET METAL SHALL BE .040" THICK ALUMINUM W/ FACTORY BAKED-ON KYNAR FINISH. COLOR TO BE SELECTED BY OWNER.
- 2. ALL SHEET METAL SHALL BE IN CONFORMANCE WITH S.M.A.C.N.A STANDARDS., ACCURATELY FORMED TO DIMENSIONS AND SHAPES AND SHALL BE COPIED TO FIT PRECISELY. ALL SEAMS SHALL BE PROPERLY RIVETED AND SEALED WITH NEAT, THIN, SMOOTH JOINTS. ALL EXPOSED ENDS SHALL BE HEMMED AND CLIPPED.
- 3. ALL SHEET METAL WORK SHALL BE FORMED AND INSTALLED TO PROVIDE SUITABLE ALLOWANCE FOR EXPANSION AND CONTRACTION. ALL INSTALLATIONS SHALL ENSURE WATERTIGHT CONDITIONS:
- 4. GUTTERS AND DOWNSPOUTS SHALL BE FORMED OF METAL SPECIFIED ABOVE IN ACCORDANCE WITH THE DRAWINGS AND SMACNA STANDARDS. OUTLET TUBES AND GUTTER ENDS SHALL BE FURNISHED AND INSTALLED AS REQUIRED IN ACCORDANCE WITH INDUSTRY STANDARDS.
- 5. SECURELY ANCHOR GUTTERS WITH HANGERS OF THE SAME MATERIAL. TELESCOPE END JOINTS OF DOWNSPOUTS I 1/2 INCHES AND LOCK LONGITUDINAL JOINTS. FURNISH ALL ACCESSORIES AS REQUIRED, INCLUDING STAINLESS STEEL FASTENERS.

#### CAULKING

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

## HOLLOW METAL FRAMES AND DOORS

- METAL DOOR FRAMES SHALL BE FORMED OF #16 U.S. STANDARD GAUGE STEEL FOR DOOR OPENINGS INDICATED. CORNERS SHALL BE MITERED, WELDED AND GROUND SMOOTH, COLD ROLLED, ANNEALED STEEL. REINFORCE JAMBS FOR HARDWARE AND PROVIDE AS REQUIRED. TEMPORARY STEEL ANGLE SPREADERS SHALL BE WELDED AT BOTTOM OF DOOR FRAMES TO ENSURE ALIGNMENT. FRAMES SHALL BE AS MANUFACTURED BY STEEL CRAFT, SECURITY, PIONEER OR APPROVED EQUAL.
- 2. METAL DOORS SHALL BE OF FLUSH TYPE CONSTRUCTION WITH 16 GAUGE SHEET OUTER SHELLS WITH VERTICAL STIFFENERS SPACED AT 6" ON CENTER. 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 COATS OF MANUFACTURED STANDARD BAKED-ON RUST INHIBIT PRIMER. DOORS SHALL BE AS MANUFACTURED BY STEEL CRAFT, SECURITY PIONEER OR APPROVED EQUAL.

### WOOD DOORS

- I. DOORS SHALL BE 1-3/4" INCHES THICK W/ SOLID NON-RATED CORE COMPLYING W AWI SECTION 1300, PC5 EXCEPT DOORS SHALL HAVE 1-1/8" INCH MEDIUM WIDTH HARDWOOD STILES MATCHING FACE VENEER.
- 2. VENEER TO BE "YELLOW BIRCH" NATURAL SPECIES, ROTARY SLICED. FACING QUALITY TO BE EQUAL TO AWI. PREMIUM GRADE.

- 3. DOORS TO BE FACTORY MACHINED FOR HARDWARE. SHOULD TRIMMING BE REQUIRED, TRIM EQUALLY FROM OPPOSING SIDES.
- 4. FACES, STILES AND
  PRIOR TO INSTALLA FISHER BOLLOTSEELS FOR SOME FIRST FRAMES
  THE AVERAGE PREVAILING RELATIVE HUMIDITY OF LOCALITY.
- 5. DELIVER DOORS TO PROJECT SITE AFTER MOISTURE PRODUCING OPERATIONS ARE COMPLETE.
- 6. PROVIDE WRITTEN GUARANTEE FROM DOOR MANUFACTURER STATING THAT DOORS WILL NOT DELAMINATE OR SHOW WARPAGE OF MORE THAN 1/4" FROM A TRUE FLANE 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.
- 3. EXTERIOR GLASS SHALL BE I" 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.
- 5. 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 KAWNEER COMPANY AND EFCO.
- 7. FINISH OF ALL SILL FLASHING SHALL BE .040 ALUMINUM TO MATCH STOREFRONT MATERIAL.
- 8. 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.
- 9. 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 O.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.
- IO. ALL EXPOSED SURFACES SHALL BE FREE OF UNSIGHTLY SCRATCHES AND BLEMISHES. THE FINISH SHALL BE ANODIZED OR KYNAR, PER OWNER'S SELECTION IN CONFORMANCE WITH ARCHITECTURAL PRODUCTS STANDARD.
- II. 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.
- 2. DESIGN CRITERIA FOR WIND LOADS SHALL BE IN ACCORDANCE WITH ASCE-T 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.
- 14. 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.
- 15. 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 OUT AND FITTED TO RESULT IN A TIGHTLY CLOSED HAIR-LINE JOINT. NO UNFINISHED MATERIAL SHALL BE VISIBLE.
- 6. 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, LIME, 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.
- 2. 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 EFS (EXTERIOR FINISH SYSTEM)

- ALL INTERIOR WALLS, PARTITIONS, CEILINGS AND OTHER INTERIOR SURFACES AS CALLED FOR SHALL BE COVERED WITH 5/8" GWB AS MANUFACTURED BY U.S.G. CO. GWB SHALL BE INSTALLED IN STRICT ACCORDANCE WITH MANUFACTURERS LATEST SPECIFICATIONS INCLUDING ALL METAL GROUNDS, BEADS, FURRING, ECT.
- 2. ALL SURFACES WHICH ARE TO REMAIN EXPOSED SHALL BE FINISH TAPED AND SANDED SMOOTH.
- 3. USE WATER RESISTANT (GREENBOARD) GWB AT ALL AREAS EXPOSED TO MOISTURE AND FOR ALL WALLS RECEIVING CERAMIC TILE, SUCH AS SERVICE, STORAGE ROOMS, TOILET ROOMS, MECHANICAL ROOMS, ECT.
- 4. VENEER PLASTER TO CONFORM TO A.S.T.M. C587 MIX AND APPLICATION PER MANUFACTURERS RECOMMENDATIONS.
- EFS SYSTEM SHALL BE COMPOSED OF 5/8" DENSGLASS 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.
- 2. 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.
- 4. 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.
- 3. 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.
- 4. SUBMIT SAMPLES FOR OWNER'S APPROVAL
- 5. CONTRACTOR SHALL PROVIDE OWNER WITH ONE (I) EXTRA BOX OF EACH TYPE TILE USED ON THE PROJECT.

#### PAINTING

- ALL PAINT MATERIAL SHALL BE OF FIRST QUALITY, EQUAL TO SHERWIN-WILLIAMS.
- 2. ALL HOLES, CRACKS, ETC. SHALL BE FILLED AND SANDED SMOOTH.
- 3. HOLIDAYS, BRUSH MARKS AND PAINT SPOTTING IS NOT ACCEPTABLE AND SHALL BE CORRECTED.
- 4. SURFACE PREPARATION AND APPLICATION OF PAINT AND STAIN MATERIALS SHALL BE DONE IN STRICT COMPLIANCE WITH MANUFACTURER'S SPECIFICATIONS.
- 5. 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
- 6. 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.

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#### GENERAL MECHANICAL REQUIREMENTS

- CONTRACTOR SHALL COMPLY WITH LATEST EDITION OF A.S.H.R.A.E., S.M.A.C.N.A. AND ALL APPLICABLE NATIONAL, STATE AND LOCAL CODES.
- 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.
- PERMITS AND FEES. CONTRACTOR SHALL OBTAIN ALL PERMITS AND PAY ALL FEES AND CHARGES REQUIRED FOR THE CONSTRUCTION AND UTILITIES CONNECTIONS.
- 4. ALL WORK PERFORMED UNDER THIS CONTRACT SHALL HAVE ONE (I) YEAR WRITTEN GUARANTEE FOR ALL MATERIALS AND WORKMANSHIP. ALL COMPRESSORS SHALL HAVE FIVE (5) YEAR FACTORY WARRANTY
- ALL MATERIALS SHALL BE NEW AND OF FIRST CLASS QUALITY. NO "USED" MATERIALS WILL BE PERMITTED TO BE INSTALLED ON THIS PROJECT.
- 6. AT COMPLETION OF PROJECT, CONTRACTOR SHALL DELIVER TO OWNER ALL DOCUMENTS (INCLUDING BUILDING PERMITS, OPERATION AND MAINTENANCE MANUALS AND ALL OTHER FINAL CLOSE OUT DOCUMENTS).
- 7. ALL DUCTHORK SHALL BE FABRICATED AND INSTALLED IN ACCORDANCE WITH THE LATEST S.M.A.C.N.A. MANUALS.
- ALL DUCT SIZES INDICATED ARE "FREE AREA" INSIDE DIMENSION REQUIREMENTS
- ALL SUPPLY AND RETURN DUCTWORK SHALL BE I" THICK FIBERBOARD WITH "HARDCAST" JOINTS.
- IO. ALL EXHAUST DUCTWORK SHALL BE SHEET METAL UNLESS OTHERWISE INDICATED OR NOTED ON PLANS.
- ALL FLEXIBLE DUCT RUN OUTS TO DIFFUSERS SHALL BE CLASS I PRE-INSULATED FLEXIBLE DUCT. THE MAXIMUM LENGTH OF FLEXIBLE DUCT SHALL BE 8'-0". WHERE RUN OUT EXCEEDS THIS DISTANCE, USE ROUND RIGID SHEET METAL WITH I" THICK EXTERNAL FIBERGLASS INSULATION.
- 12. ALL OUTSIDE AIR SUPPLY DUCTWORK SHALL BE SHEET METAL.
- PIPING MATERIALS: REFRIGERANT PIPING SHALL BE TYPE K GOPPER SIZED AND INSTALLED IN ACCORDANCE WITH EQUIPMENT MANUFACTURER'S RECOMMENDATIONS. PROVIDE SIGHT GLASS AND FILTER DRIER ON EACH SYSTEM. CONDENSATE DRAIN PIPING SHALL BE SCHEDULE 40 STEEL SCHEDULE 40 PVC MAY BE USED IF APPROVED BY LOCAL CODES. RUN TO APPROVED WASTE OR DRYWELL AS REQUIRED BY GOVERNING AUTHORITY
- INSULATION: ALL REFRIGERANT PIPING SHALL BE INSULATED WITH 3/4" THICK CLOSED CELL ELASTOMERIC INSULATION. ALL KITCHEN HOOD MAKEUP DUCTWORK SHALL BE INSULATED WITH I" THICK EXTERNAL FIBERGLASS INSULATION WRAP. CONDENSATE DRAIN PIPING SHALL BE INSULATED WITH 3/4" THICK CLOSED CELL ELASTOMETRIC INSULATION.
- AIR CONDITIONING EQUIPMENT SHALL BE AS SCHEDULED ON THE DRAWINGS. SYSTEMS SHALL BE COMPLETE WITH FILTERS, MOTOR STARTERS, MOTOR DISCONNECTS, AND ROOF CURBS (WHERE UNITS ARE ROOF MOUNTED) AND ALL OTHER ACCESSORIES, RELAYS, AND OTHER ITEMS OF EQUIPMENT REQUIRED FOR A COMPLETE, OPERATING SYSTEM.
- 16. FANS SHALL BE AS SCHEDULED ON THE DRAWINGS. FANS SHALL BE COMPLETE WITH BACKDRAFT DAMPERS, BIRD SCREEN, MOTOR STARTERS, MOTOR DISCONNECTS, AND ROOF CURBS (WHERE FANS ARE ROOF
- CONTROLS: EACH A/C SYSTEM SHALL BE CONTROLLED BY A THERMOSTAT WITH "HEAT-OFF-COOL" SWITCH AND FAN "ON-AUTO" SWITCH. EACH SYSTEM HANDLING 2,000 CFM AND GREATER SHALL HAVE FIRESTATS 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 FOR A COMPLETE INSTALLATION. ALL SIDEWALL SUPPLY REGISTERS SHALL HAVE DOUBLE DEFLECTION LOUVERS WITH FRONT SET VERTICALLY MOUNTED. DEVICES SHALL BE FIELD PAINTED IF INDICATED ON ARCHITECTURAL DRAWINGS. (COLOR TO BE SELECTED BY OWNER.)
- 19. COORDINATE EXACT LOCATION OF ALL AIR DEVICES IN CEILING WITH LIGHTING FIXTURES. REFER TO ARCHITECTURAL REFLECTED CEILING PLANS FOR LOCATIONS IN CEILINGS. COORDINATE EXACT LOCATION OF ALL WALL MOUNTED AIR DEVICES WITH ARCHITECTURAL INTERIOR ELEVATIONS AND STRUCTURAL COMPONENTS.
- 20. DAMPERS SHALL BE PROVIDED AT ALL BRANCH TAKE-OFFS FROM MAIN DUCTWORK AND AT EACH AIR DEVICE FOR SYSTEM BALANCING. DAMPERS AT DEVICES SHALL BE OF THE OPPOSED BLADE TYPE.
- 21. CONTRACTOR SHALL TEST AND BALANCE THE SYSTEMS UPON COMPLETION OF WORK. ANY DEFECTS OR DEFICIENCIES DISCOVERED AS A RESULT OF TESTS SHALL BE IMMEDIATELY CORRECTED OR REPAIRED AND TESTS SHALL BE REPEATED UNTIL THE TEST REQUIREMENTS ARE FULLY COMPLIED WITH. SUBMIT TEST AND BALANCE REPORT TO OWNER AT COMPLETION OF TESTING.
- 22. CONTRACTOR SHALL FURNISH SUBMITTAL DATA TO OWNER FOR APPROVAL ON ALL A/C EQUIPMENT, FANS, AIR DEVICES, 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.
- 23. CONTRACTOR SHALL PROVIDE ALL MATERIAL AND LABOR REQUIRED TO MAKE ALL FINAL CONNECTIONS TO OWNER/FOOD SERVICE EQUIPMENT. REFER TO FOOD SERVICE DRAWINGS FOR ADDITIONAL NOTES AND INSTALLATION DETAILS FOR FOOD SERVICE EQUIPMENT (INCLUDING ALL ROUGH-IN LOCATIONS).

#### GENERAL PLUMBING REQUIREMENTS

- 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.
- CONTRACTOR SHALL OBTAIN ALL PERMITS AND PAY ALL FEES AND CHARGES REQUIRED, INCLUDING UTILITY CONNECTION CHARGES APPLICABLE TO HIS WORK.
- ALL WORK PERFORMED UNDER THIS CONTRACT SHALL HAVE ONE (I) YEAR WRITTEN GUARANTEE FOR ALL MATERIALS AND WORKMANSHIP.
- 4. ALL MATERIALS SHALL BE OF FIRST CLASS QUALITY. NO "USED" MATERIALS WILL BE PERMITTED TO BE INSTALLED ON THIS PROJECT, UNLESS SPECIFICALLY NOTED ON THE DRAWINGS.
- AT COMPLETION OF PROJECT, CONTRACTOR SHALL DELIVER TO OWNER ALL DOCUMENTS (INCLUDING BUILDING PERMITS, OPERATION AND MAINTENANCE MANUALS, ETC.)
- ALL WASTE AND VENT PIPING SHALL BE SCHEDULE 40 PVC WITH SOLVENT WELD JOINTS. EXPOSED WASTE PIPING SHALL BE CHROME PLATED BRASS. ALL PENETRATIONS THROUGH WALLS SHALL HAVE CHROME PLATED ESCUTCHEON PLATES.
- 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.
- EXTERIOR WATER PIPING SHALL BE SCHEDULE 40 PVC 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.
- 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 PLENUMS SHALL BE 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
- 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
- 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 I" THICK FIBERGLASS INSULATION WITH VAPOR BARRIERS. WASTE PIPING FOR LAVATORIES SHALL HAVE 3/4" THICK ELASTOMERIC INSULATION.
- 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.
- 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
- 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.
- EACH PLUMBING FIXTURE SHALL 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 CASEMORK WITH TWO (2) LAYERS OF INSULATING TAPE.
- 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.
- REFER TO ARCHITECTURAL DRAWINGS FOR EXACT MOUNTING HEIGHTS OF ALL FIXTURES. HEIGHTS SHALL COMPLY WITH A.D.A. CODE REQUIREMENTS

#### GENERAL ELECTRICAL REQUIREMENTS

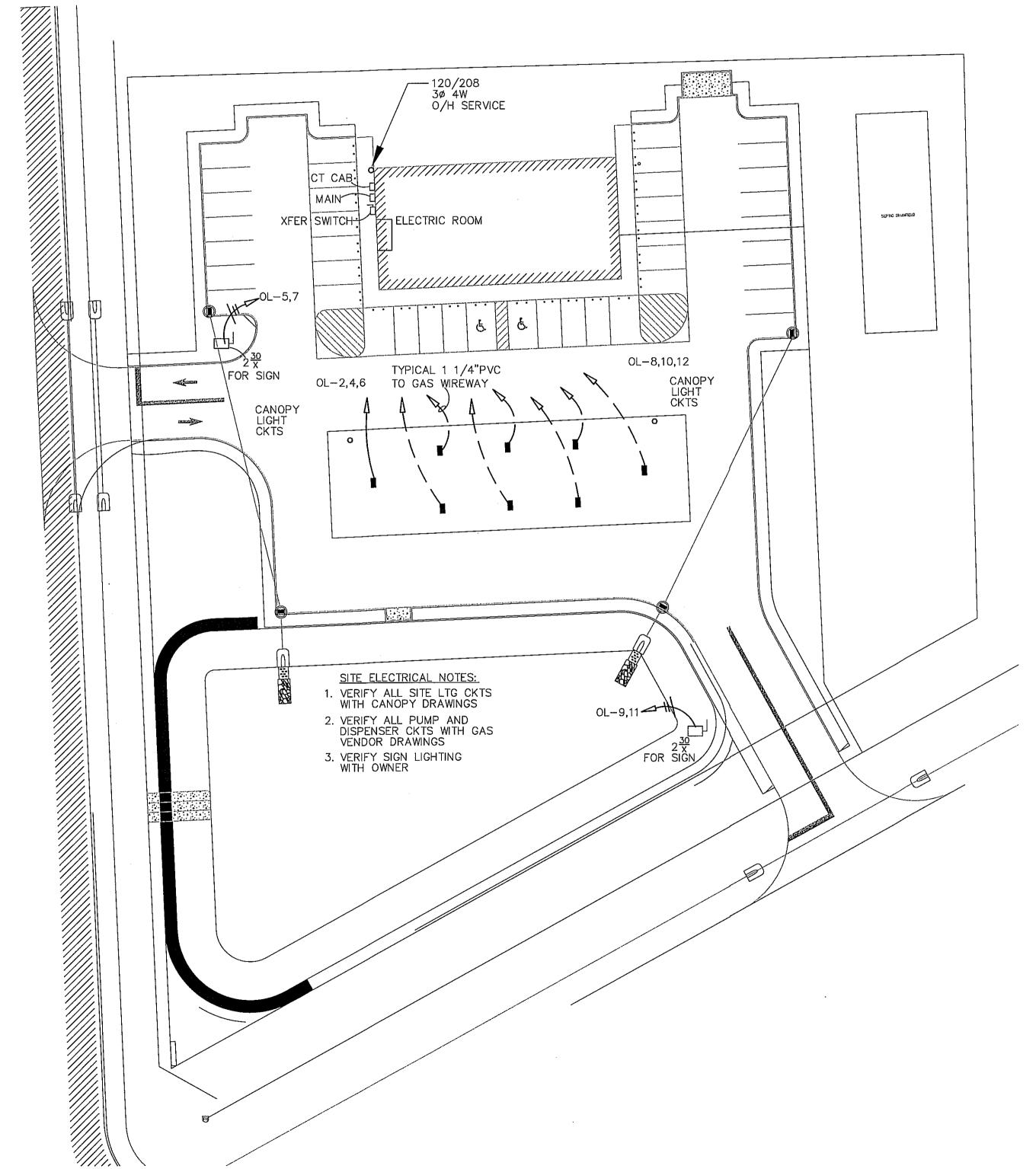
- CONTRACTOR SHALL COMPLY WITH ALL NATIONAL, STATE AND LOCAL CODES. ALL WORK SHALL BE IN CONFORMANCE WITH N.E.C.
- CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO SUBMITTING BID. BY SUBMITTING BID, CONTRACTOR STATES THAT HE HAS EXAMINED ALL EXISTING CONDITIONS. IF CONTRACTOR ENCOUNTERS EXISTING CONDITIONS WHICH NEED CLARIFICATION, CONTACT OWNER'S REPRESENTATIVE FOR RESOLUTION OR CLARIFICATION.
- CONTRACTOR SHALL OBTAIN ALL PERMITS AND PAY ALL FEES AND CHARGES REQUIRED, INCLUDING UTILITY COMPANY CHARGES APPLICABLE TO HIS WORK.
- ALL WORK PERFORMED UNDER THIS CONTRACT SHALL HAVE ONE (I) YEAR WRITTEN GUARANTEE FOR ALL MATERIALS AND WORKMANSHIP.
- 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.
- AT COMPLETION OF PROJECT, CONTRACTOR SHALL DELIVER TO OWNER ALL DOCUMENTS (INCLUDING BUILDING PERMITS, OPERATION AND MAINTENANCE
- ALL INTERIOR CONDUIT SHALL BE EMT. ALL EXTERIOR AND UNDERGROUND CONDUIT SHALL BE RIGID GALYANIZED 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 THAN 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%.
- 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
- 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.
- ALL RECEPTACLES SHALL BE SPECIFICATION GRADE. COLOR OF ALL SMITCHES 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.
- 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 PULL 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
- 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'-O" PRIOR TO INSTALLATION AT NO ADDITIONAL COST TO OWNER.
- TRANSFORMERS SHALL BE DRY-TYPE OF SIZE AND YOLTAGE REQUIREMENTS AS INDICATED ON THE DRAWINGS. TRANSFORMERS SHALL BE GROUNDED AS PER THE N.E.C.
- ENTIRE ELECTRICAL SYSTEM SHALL BE GROUNDED IN ACCORDANCE WITH N.E.C. ARTICLE 250. GROUNDING TO PLUMBING SYSTEM SPECIFICALLY PROHIBITED.
- 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.
- 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-
- 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.
- 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.



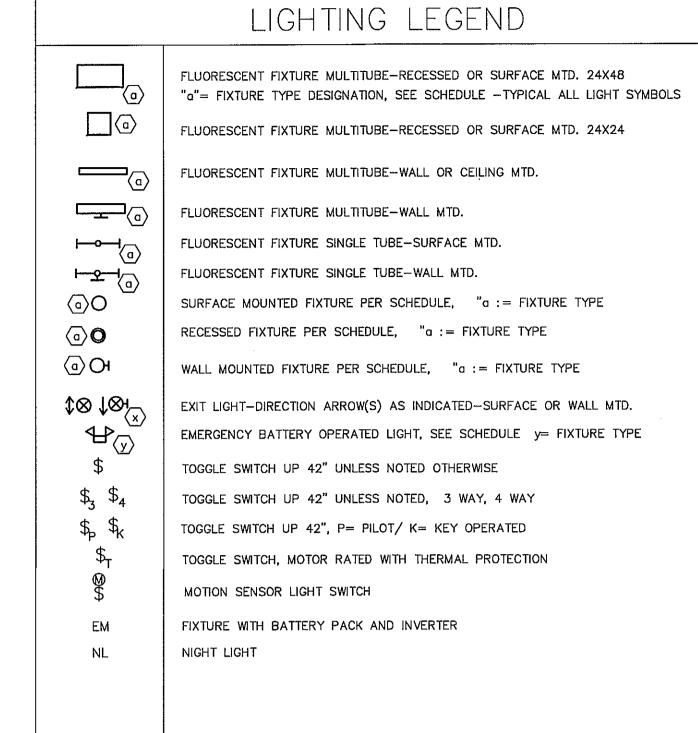
JON FLORID

CRAIG SALLEY, R.A. FL. REG. NO. 4475 2/12/10 DJR

SP-3



	LIGHTING LEGEND
MARK	DESCRIPTION
A	4' LONG FLUORESCENT STRIP CHANNEL, SURFACE MOUNTED WITH ONE (1). ELECTRONIC BALLAST. FURNISH FIXTURES WHERE NOTED 'WG' WITH WIRE GUARDS 120 VOLT, MODEL NUMBER EQUAL TO DAY—BRITE MODEL T132—120—1/2 EB.
В	4' SURFACE MTD FLUORSCENT IN OFFICE
С	2'X4' FLUORSCENT LAYIN FIXTURE, 3 TUBE, WITH ACRYLIC PRISMATIC .125" THK LENSE. FLAT STE DOOR WITH 4100 K LAMPS, SINGLE ELECTRONIC BALLAST, 120 VOLT MODEL NUMBER EQUAL TO DAYBRITE 2SPW232SF12-120-1/2EB-LPT841HL
D	DECORATIVE PENDANT ABOVE TABLE.
E	4' LONG FLUORESCENT VAPOR TIGHT WET LOCATION INDUSTRIAL, SURFACE MOUNTED WITH TWO (F32TB LAMPS, ELECTRONIC BALLAST, FIBERGLASS REINFORCED POLYESTER BODY, CLOSED CELL GASKET, WET LOCATION, NSF CERTIFIED FOR FOOD ZONE INSTALLATION 120 VOLT, ELECTRONIC HO BALLAST FOR COLD AMBIENT APPLICATIONS FOR O'F OPERATION, TWO GASKETED THREADED COUPLINGS FACTORY INSTALLED ON ENDS OF LUMINAIRE. MODEL NUMBER EQUAL TO DAY—BRITE MODEL DWAE248120—1/2EB
F	6" X4' FLUORSCENT SURFACE MOUNTED FIXTURE, 1 TUBE, WITH OPAL ACRYLIC LENSE. COATED STEEK HOUSING, 4100 K LAMPS, SINGLE ELECTRONIC BALLAST, 120 VOLT MODEL NUMBER EQUAL TO DAYBRITE CLDDW132-120-1/2-EB
G	RECESSED 8"0 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 NUMBER EQUAL TO CAPRI CM8-M50C-V85WBC
Н	SURFACE MOUNTED WALL PACK, 70 WATT METAL HALIDE, 120 VOLT, BRONZE FINISH PRISMATIC GLASS REFLECTOR, PHOTOCELL CONTROL. MODEL NUMBER EQUAL TO NIGHT BRIGHT WPG070M-MT-LP PE.
×	UNIVERSAL MOUNT WHITE ABS EXIT SIGN WITH RED LED LAMP, UNIVERSAL FACE WITH CHEVRON DIRECTIONAL KNOCKOUTS, 120.277 SELECTABLE VOLTAGE. MODEL 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 NUMBER EQUAL TO MCPHILBEN VCRB



	POWER LEGEND
Ф	DUPLEX RECEPTACLE
₩	DUPLEX RECEPTACLE GFI
-₩-	QUADRAPLEX RECEPTACLE
₫	SPECIAL PURPOSE RECEPTACLE AS NOTED
·	FLOOR OUTLET
<b>0 1</b>	JUNCTION BOX
® ₩	THERMOSTAT OUTLET HUMIDISTAT OUTLET
$\triangleright$	DATA OUTLET UP 12" UNLESS NOTED— EACH SYMBOL = 2 CATSE CABLES AND TWO RJ45 JACKS IN SINGLE GANG BOX. $\triangleright > =$ (4) CABLES AND 4 JACKS DOUBLE GANG BOX, $\triangleright > =$ (6) EACH ETC,
▶ №	TELEPHONE OUTLET (VOICE ONLY) UP 12" UNLESS NOTED/ FLOOR OUTLET
□ <sup>1</sup> 3 <sup>30</sup> / <sub>15</sub>	DISCONNECT,3=NO. OF POLES, 30=FRAME SIZE, 15=FUSE, X=NO FUSE
⊠ 2	MAGNETIC MOTOR STARTER OR CONTACTOR, 2= NEMA SIZE
2 ⊠J 3 <del>30</del>	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
凸	UTILITY METER (PER UTILTIY 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
<b>/</b>	CONDUIT RUN UNDERFLOOR OR UNDERGROUND
to	HOME RUN TO PANEL,LONG LINE=NEUTRAL OR GND.,SHORT LINE(S)=CIRCUIT(S)
	ELECTRIC HEATER
P	PHOTOCELL
W.P.	WEATHERPROOF
G.F.I.	GROUND FAULT INTERRUPTER
*	MTD. UP 48" OR ABOVE COUNTERTOP BACKSPLASH
<b>♦</b>	T.V. OUTLET
<b>S</b> ₱	SPEAKER OUTLET
<b>\Pi</b>	INTERCOM CALL-IN SWITCH 48"AFF

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SOCIATES SIOR DESIGNERS 302479 • 352-372-8424

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



COBURN & ASSOCIATES FLORIDA LICENSED FLORINEERS EB 0003687 P.O. BOX 577 HIGH SPRINGS, FLORIDA 32655-0577 PH 386-454-3748 RICHARD E COBURN PE

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ELECTRICAL SITE PLAN

SCALE 1" = 40'-0"

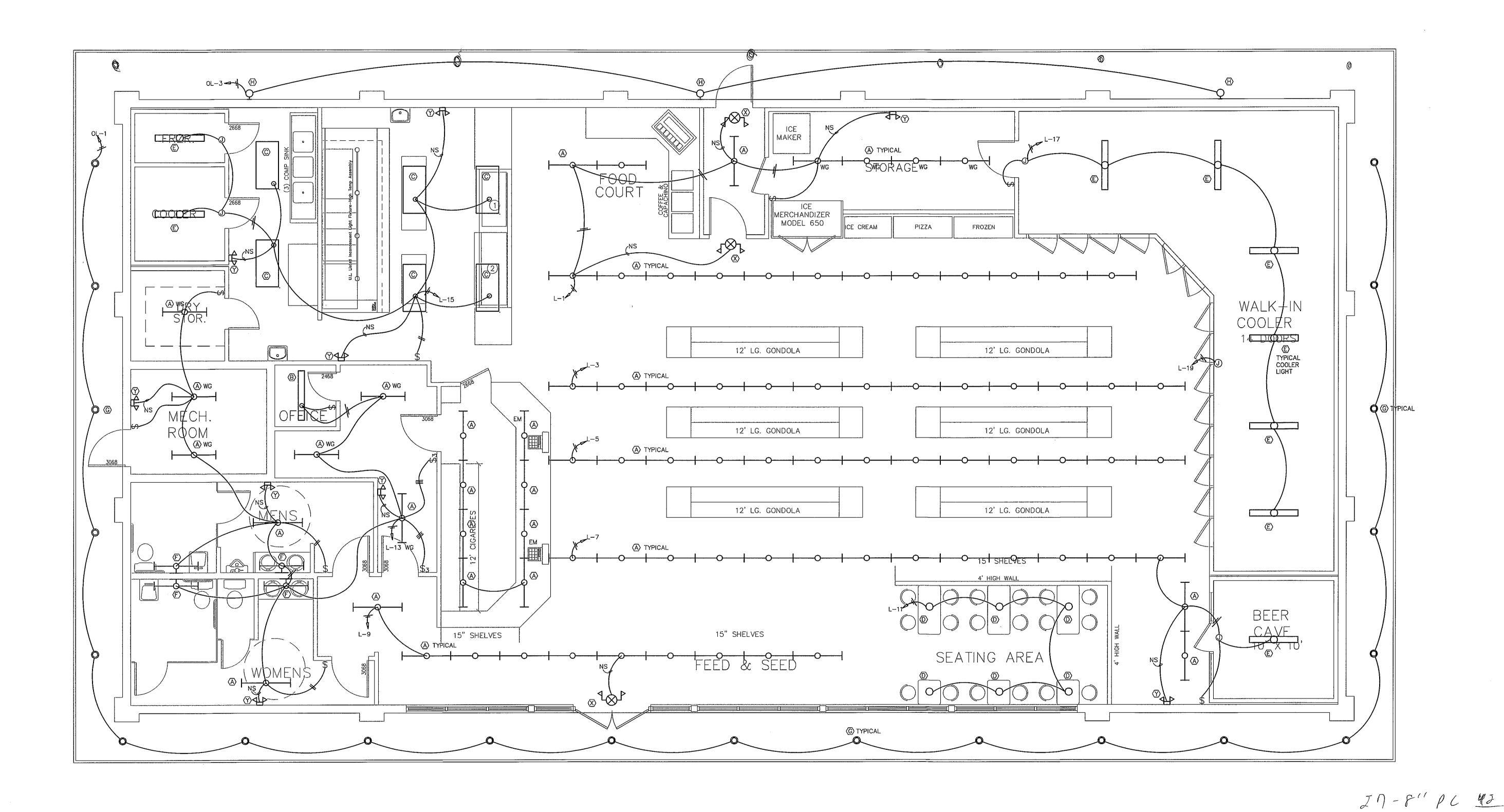
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E2



ELECTRICAL LIGHTING PLAN

1/4" = 1'-0"

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2 8' COLD FOOD DROP-IN 120 14' GAS DEER FRYER (2) 120 3/4" 11,000 FRYER FILTER MATE 120 1 1.2 2 BURNER COOK TOP GAS COMBI-OVEN 0,67 5,7 3/4 3/4 1 1/2' IW 3/4' 45,000 CONVECTION OVEN 3/4" 210,000 GRILL / CHARBROILER REFRIGERATED SANDWICH PREP 120 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 HODD 14 FOOD WARMER (FRYER) - 0.5 120 GRILLE 36' @ 30,000 X 3 = 90,000 CHARBROILER 36' @ 20,000 X 6 = 120,000

VOLTS | PH | KW | AMPS | CW | HW | FW | DRAIN | GAS | BTUH

EQUIPMENT SCHEDULE

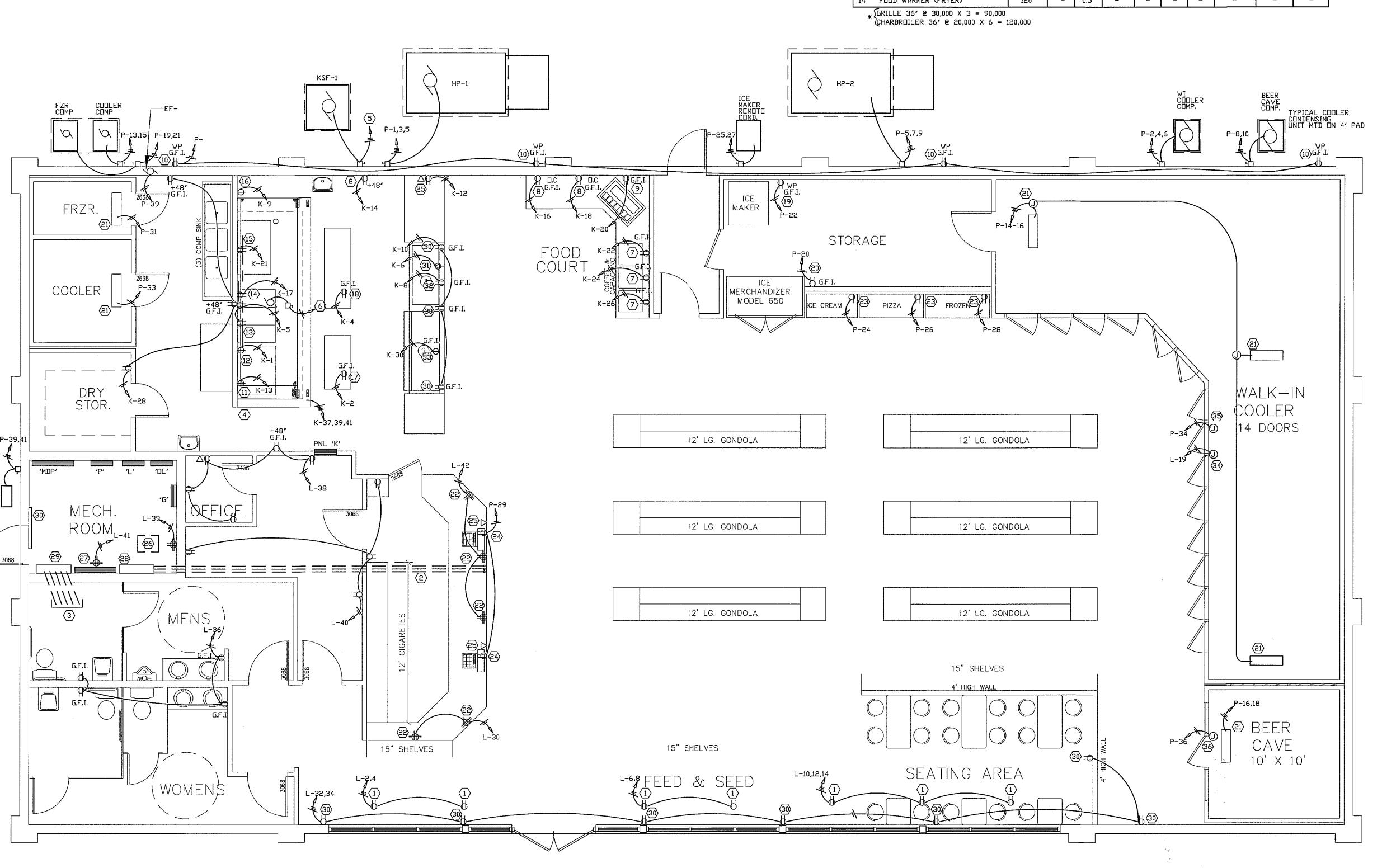
1A 5' DROP-IN HOT WELL

1B WARMING DRAWER

120

120

1 | 1.05



#### SPECIFIC POWER NOTES, DRAWING E3

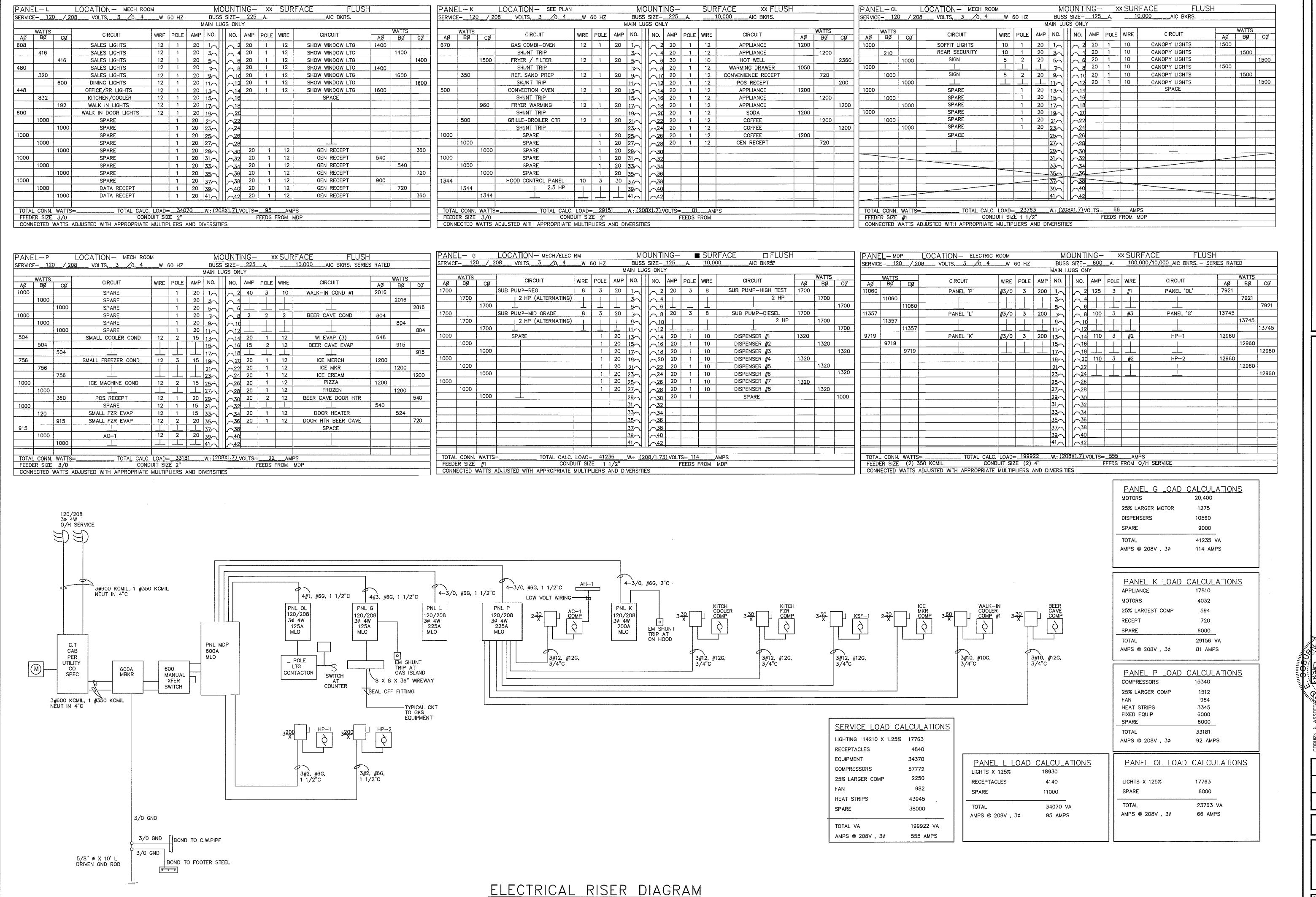
- (1) CELING MOUNTED RECEPTACLE FOR SHOW WINDOW LIGHTING
- THREE (3)- 2 INCH CONDUIT FOR GAS PUMP CONTROLS AND POINT OF SALE LOW VOLTAGE WIRING
- 1 1/2' CONDUIT WITH SEAL OFF FITTINGS, ONE TO EACH GAS DISPENSER FOR LOW VOLTAGE CONTROLS FOR GAS DISPENSER CONTROL
- (4) KITCHEN EXHAUST HOOD CONTROL CABINET, 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
- 120V,10, 20A RECEPTICLE FOR COFFEE MAKERS, MOUNTED ABOVE COUNTER, VERIFY REQUIREMENTS WITH EQUIPMENT
- 8 120V, 10, 20A, RECEPTACLES FOR APPLIENCES MOUNTED ABOVE COUNTER OR AS NOTED
- 9 120V, 10, 20A, RECEPTICLE FOR SODA DISPENSER, VERIFY MOUNTING HEIGHT WITH EQUIPMENT INSTALLATION INSTRUCTIONS
- (10) MAINTENANCE RECEPTICLE, GFI
- 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/ BRIOLER, 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) RECEPIACLE BELOW TABLE.120V, 10, 20A GFI
- 19) 120V, 10, 20A RECEPTACLE FOR ICE MAKER, VERIFY MOUNTED HEIGHT AND REQUIREMENTS WITH MANUACTUER 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
- 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
- DATA DUTLET, 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 DWNER 26 DATA RACK
- 4' X 8' X 3/4 PLYWOOD BACKBOARD PAINTED WITH BLACK FIRE RETARDANT PAINT
- 8' X 8' X 36' WIREWAY MOUNTED 12' AFF, WITH FRONT MOUNTED REMOVABLE COVER, FOR ROUTING OF LOW VOLTAGE TO SALES
- COUNTER THROUGH CONDUT(2)
- 8' X 8' X 36' WIREWAY MOUNTED 12' AFF WITH FRONT MOUNTED REMOVABLE COVER, FOR ROUTING OF LOW VOTAGE TO GAS DISPENSERS
- (30) 120V, 10A, GENERAL PURPOSE RECEPTACLES
- 31) 30A, 120V 10A, SPECIAL PURPOSE RECEPTACLE FOR HOT FOOD WELL, VERIFY RECEPTACLE CONFIGURATION WITH MANUFATTURER
- 32 120V, 20A, 10, RECEPTACLE FOR WARMING DRAWER

HTRS 6AMPS TOTAL

- (33) 208V, 3Ø, 3 WIRE PLUS GROUND, MOUNTED AT 48° AFF.
- 34) 120V, 1Ø, 3W CKT FOR DOOR LIGHTS VERIFY CONNECTION POINT WITH MFGR DETAILS
- 35) 120V, 1ø, 20A CKT FOR DOOR HEATERS,
- 4.37A TOTAL 36) 120V, 1Ø, 20A CKT FOR BEER CAVE DOOR & WINDOW

ELECTRICAL POWER PLAN

1/4" = 1'-0"



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Specifications, and any Addenda thereto.
B. Drawings and Specification shall be understood to cover, according to their intent and meaning, complete
electrical systems. Work shown and not specified, or
work specified and not shown shall be performed as
though mentioned in both. C. Minor items and accessories reasonably inferred as
necessary for the complete and proper operation of any
system shall be provided by contactor or subcontractor
for such system whether or not they are specifically
called for. D. The Electrical Contractor shall include in his bid the
cost of furnishing installing, maintaining and
removing all material and equipment required to provide
temporary lights and power to perform the work of all trades during construction and until work is completed.
trades during construction and until work is completed.  Adequate lighting and receptacle outlets for operation
of hand tools shall be provided throughout the project,
including shanties, trailers, field offices, temporary
toilet enclosures, and shall be extended as
construction progresses. E. Before submitting a bid, the Electrical Contractor is
to coordinate with the electric power company to
ascertain, in detail, the division of work, and the
extent of performance by the Power Company shall be
furnished and performed by the Electrical Contractor.
F. All electrical work required by the telephone company shall be furnished and performed by the Electrical
Contractor. The Electrical Contractor shall coordinate
with the telephone company before bidding.
G. All work shall be performed or installed in strict
accordance with the National Electrical Code and all applicable rules, regulations and codes of local, state, and Federal Goverments having
lawful jurisdiction, and each contractor and
subcontractor shall be responsible for such compliance.
H. All panelboards, disconnects, relays, magnetic
contractors and time clocks shall be labeled with the same designation shown on the Drawings.
I. Labels shall be laminated plastic engraved, with
minimum 3/4 inch width, minimum letter size 3/8 inch.
J. Mount a typewritten directory behind glass or plastic
on the inside of each panel door, showing circuit
number and conplete description of all outlets on each circuit. K. Furnish all equipment and personnel and conduct all
tests required to secure approval of the installation.
L. Safety Tests
1. All systems shall test free from short circuits
and grounds, shall be free from mechanical and electrical defects and shall show and insulation
resistance between phase conductors and ground of
of not less than that regired by the National
Electrical Code.
<ol> <li>All systems shall show proper neutral connections.</li> <li>W. Upon completion of each pary of the electrical system,</li> </ol>
the contractor shall demonstrate to the Engineer that
eavh item on that system is installed with proper
covers, safeties, controls, etc., and that all are in
proper working order. N. A set of "red—lined" electrical 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 cable trays, conduits, pull boxes, circuit
numbers, and other information required by the Engineer.  O. Equipment and materials shall meet or exceed specification
requirements.
and be New, unused, of best quality and grade. Furnish current mod
for which repalcement parts are available.
P. All work shall be performed in compliance with OSHA regulations. Q. Shop drawings and product data shall be submitted on
all equipment, fixtures, etc.
1. Shop drawings shall be labeled in the same designation
as individual piece of equipment for which they are
being submitted; the proper designation shall be the
being submitted; the proper designation shall be the designation used on the various equipment schedules and
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V. Clean all panel board, switches, boxes, etc., and leave them in a ready-to-use condition.

W. Install with proper screws or bolts, all panelboard

X. Where factory finish is provided on equipment, all marred or damaged surfaces shall be touched-up

or refinished hereunder as approved.

and juction box covers.

ELECTRICAL SPECIFICATIONS

A. Furnish all labor, materials, fixtures, equipment, tools and

service necessary for installation, testing and adjusting of all electrical systems shall be furnished

and installed in compliance with the Drawings,

GENERAL

In addition to provisions and stipulation set forth in other Sections of these Specifications, provide
various types of protection as follows: 1. Protect finished floors from chips and cutting oil
by use of metal chip receiving pan and oil-proof floor cover.
. All pumps, motors, fans and other rotating equipment shall be stored at Site with openings, bearing, etc.
covered to exclude dust and moisture; and protected form weather from entry of foreign materials.
CCOPE
COPE A. Conduit for power, telephone, communication, control, and miscellaneous functions
which are shown on the drawings or described in these specifications.
1. All boxes for wiring and devices and special systems. 2. Wiring for all power, communication,
and auxiliary equipment, controls and other devices. 3. All panels for power, lighting, and distribution
of electricity as shown on the Drawings and panel schedules. 4. All circuit breakers shown on lighting, power,
distribution and main distribution panels. 5. All disconnects and starters as described herein.
6. All fuses as shown and specified. EXCAVATION AND BACKFILL
A. Contractor shall be coordinate with the General Contractor to determine the extent of his responsibility to perform the excavation and backfilling
related to the electrical scope of work  ROUGH-IN  A Contractor chall southwin for all equipment
A. Contractor shall rough—in for all equipment, fixtures, etc., in building whether or not such equipment is furnished by this Contractor or under
other divisions of Specifications or by Owner. B. 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.
C. Install all inserts for hangers and supports of electrical work as general construction progresses.
D. Rough—in openings in masonry, brick, or stud walls shall be cut, not broken or chiseled.
E. Openings shall be smaller than the coverplate or box which fits over it. F. Openings for recessed boxes shall not be larger
than the coverplate which will cover the final opening G. Sleeves shall be required at all points where exposed
conduits pass through concrete walls, slabs or masonry walls. Sleeves installed below grade or where subject
to high water conditions shall be installed water tight. BASIC MATERIALS & METHODS
CONDUIT A. Rigid metal conduit shall be steel, hot dip
galvanized. Minimum size shall be 1/2". B. Electrical Metallic Tubing (EMT) shall be steel,
electro or hot dip galvanized. C. Flexible Metallic Tubing shall be galvanized steel.
Sealtite type UA or EF shall be used for all motor connections.  D. Rigid Non-metallic conduit shall be listed for use
as electrical raceways. All PVC shall be high density  Type I Schedule 40.  The shall be installed in a first class waster and waster and waster and waster and waster and
E. All conduit shall be installed in a first—class workmanship manner. F. All conductors shall be installed in conduit. G. Fitings or symmetrical bends shall be required
wherever righ angle turns are made in exposed work.  H. Bends and offsets shall be avoided wherever possible,
but where necessary, they shall be made with an approved conduit bending machine.
I. All conduit joints shall be cut square, reamed smooth and drawn up tight.  J. Conduit shall be installed in horizontal and vertical
runs in such a manner as to insure against trouble from the collection of trapped condensation and shall be arranged so as to be
devoid of traps. K. Special care shall be used in insuring that exposed
conduit runs are parallel or perpendicular to walls, structural members, or intersections of vertical planes and ceiling.
L. During construction, all conduit work shall be protected to prevent lodgement of dirt, plaster or trach in conduits, fittings or boxes.
M. Conduits which have been pklugged shall be entirely freed of accumulations or be replaced.
N. All conduits in floors or below grade shall be swabbed free of debris and moisture before wires are pulled.
O. Conduit shall be properly supported as specified elsewhere in this Section. P. Expansion fittings or other approved devices shall be
used to provide for expansion and contraction where conduits cross building expansion joints.
Q. A flexible rounding strap shall bridge expansion joints and shall be bonded to conduit.
R. Conduit, boxes, devices, lights, etc., shall be located so that they will not interfere with intended use of eyeboltsm monoralls, or other lifting equipment.
S. Conduit above slab shall be run concealed in the walls or cellings unless specifically noted to be exposed.
T. Conduit under ground and or slab shall be buried 24 inches minimum. U. Exact routing of conduit shall be determined in the field for ease of installation
provided that the following criteria is met: 1. All conduit, home runs, and circuits are made to
the panel specified on the drawings and\or panel schedule. Any deviation in this reguard shall be
done only with written approval of the Architect. 2. Conduits shall be run so as not to conflict with
ductwork, diffusers, mechanical equipment and piping. 3. Conduit is not noted or detailed to be specifically run in a particular
location. 4. Hangers and supports shall be attached to stud walls with wood screws.
V. Final connection to motors, etc., shall be made with either:  1. The same type of conduit which leads up to the equipment or.
2. Armored flexible conduit which shall be waterproof for any locations outside, in kitchens, or any
inside area subject to water, heavy moisture, condensation, etc. W. SPECIFIC CONDUIT TO BE USED
<ol> <li>All conduit and fittings shall be in new, unused condition free from rust, excessive dirt and</li> </ol>
moisture, kinks, flats, cuts, or other distortions of shape caused by impact, crushing or bending.
<ol> <li>Concealed conduit in building, above slab shall be EMT conduit with "set-screw" or compression fittings.</li> </ol>
3. Exposed conduit in building, above slab shall be EMT conduit with "set—screw" or compression fittings.
4. Conduit embedded in or penetrating slab shall be PVC with waterproof joints.
<ol> <li>Exposed conduit outside building, above grade     shall be rigid galvanized steel with threaded waterproof fittings.</li> <li>Underground conduit shall be PVC with waterproof joints.</li> </ol>
SEAL-OFF FITTINGS
1. Provide seal—off fittings in all locations as required by NEC, ART 514
SUPPORTS AND HANGERS
A. All conduit shall be supported on structural building members, i.e. columns, beams, purlins, block, studs, etc.
B. Conduit shall be supported on galvanized or aluminum brackets, clamps, or straps.
C. Conduit hangers shall be attached to building steel by beam clamps or welding.  D. Hangers and supports shall be attached to stud walls
D. Hangers and supports shall be attached to stud walls with wood screws. E. Hangers and supports shall be attached to masonry
with expansion type anchors (shield).  F. Supports shall be channel type supports such as
manufactured by Uni-Strut, Globe, Kindorf, or equal.
BOXES A. Pullboxes inside buildings shall be code gauge and
size, galvanized steel with screw type cover.  B. Pullboxes outside building above grade shall be code gauge and size, aglygnized steel with engme!
code gauge and size, galvanized steel with enamel finish and screw type cover. Boxes shall be rainproof and waterproof

C. Bullbauer sutaids building in plat time material source
C. Pullboxes outside building in slab type gasketed cover and completely weatherproof.  D. Switch and outlet boxes in standard stud wall
thicknesses shall be galvanized steel, 2 1/2 inch deep.  E. Switch and receptacle boxes in firred wall or wall less
than standard stud depth shall be galvanized steel, 1 1/2 inch deep. F. Wall boxes in four inch block shall be galvanized steel 2 1/2 inch deep.
G. In walls larger than four inch block—galvanized steel 3 1/2 inch deep. H. Boxes may be ganged as required for multiple switches, etc.
<ol> <li>Through—wall boxes are prohibited.</li> <li>Lighting outlet boxes and specified junction boxes shall be galvanized steel, 4" octagon with cover.</li> </ol>
K. Floor boxes shall be standard depth—cast steel, flush
mounted cover with brass. Furnish with threaded brass receptacle covers.  L. Telephone boxes shall be standard gauge galvanized steel, 4 inch square.
M. All wiring devices shall be installed in metallic boxes. Provide outlet boxes, receptacle boxes, juction boxes, etc., where shown on the drawings
and/or required by the National Electrical Code.  N. Provide pull boxes as shown on the Drawings, as
required by code or as needed for ease of construction.  O. Outlet shall be installed in the location shown on the drawings.
P. Contractor shall study the general building plans in relation to the space surrounding each outlet, in order that his work may fit all other work required by these Specifications.
Q. All steel supports for outlet boxes shall be furnished and installed. R. Outlets boxes for use with exposed steel conduit
shall be cast steel. Cast metal fittings shall be cast steel. Cast metal fittings shall be Crouse—Hinds, Square D, Bryant, or equal.
S. All openings in electrical equipment, enclosures, cabinet, outlet and junction boxes shall be by means of welded bosses, standard knockouts, or shall be
sawed, drilled, or punched with tools specially made for the purpose. The use of a cutting torch is prohibited.
T. All conduit connections to electrical boxes shall be made with locknuts and nonmetallic bushings. U. Locknuts shall be drawn down tight to make ground
o. Lockings shall be drawn down tight to make ground connection between the conduit and box.  WIRE AND CABLES
A. All wire used throughout work shall be soft drawn copper of not less than 98% conductivity.
B. Wire and cable shall be new; and manufacturer's name permanently marked on the outer covering at regular intervals.
C. Conductors AWG No. 8 or smaller may be solid or stranded; larger sizes shall be stranded.  D. All conductors for general wiring shall be insulated
with THW or THWN Insulation.  E. Conductor markings and color coding shall be in
accordance with the latest edition of the N.E.C. F. Green color coding is required by the N.E.C. for conductors used for grounding.
G. All wiring shall be installed in conduit. H. Conductors shall be sdized according to the National Electrical Code or as shown on the drawings whichever is greater.
I. Minimum size for 20A receptacle and lighting circuits shall be No. 12 AWG—where distance from panelboard to
load exceeds 65 feet, use No. 10 AWG minimum; over 100 feet, use No. 8 AWG.
J. All wiring shall be fully polarized throughout using white wires for neutral and making all switching connections in colored hot wires.
K. No conductors shall be drawn into conduits until all work which may cause damage is completed; only
approved cable lubricants shall be used. L. As far as practical, all feeder cables shall be continuous from origin to panel termination without
running splices in intermediate pull boxes. M. All cable terminals, taps and splices shall be made
with solderless, pressure type connectors; connectors shall be Type QA—B or Q2A as manufactured by Burndy, Classics type type and a control of the control of the type type type type type type type typ
Okonite, McJunkin or equal.  N. The minimum free length of conductor at each box for the connetion of a fixture, switch or receptacle shall be 8".
PANELBOARDS
A. The panelboards shall be of dead—front construction with code gauge galvanized steel box, and hinged front finished in grey lacquer.
B. Doors shall be provided with a plate tumbler lock with flush handle and typed directory card and holders.
C. Panels rated 225 amp or less and 10,000 AIC shall be Square D, type NQO, or equal.
D. Panels rated 225 amp or less and greater than 10,000 A.I.C. shall be Square D, Type NQOB, or equal. E. Panel rated 400 to 800 amp shall be Square D,
"ILine" or equal. Panels greater than 800 amps are considered to be Distribution Switchboards.
F. Furnish and install electrical system as described on Drawings, panel schedules and electrical riser diagram.
<ul> <li>G. Panels shall be surface mounted or recessed as specified on the panel schedule.</li> <li>H. All panelboards shall be circuit breaker type unless noted otherwise.</li> </ul>
I. Voltage, phase, wires as specified on schedules. J. Solid neutral.
K. Panels rated at 10,000 AIC shall have stab—in breakers.  L. Panels rated greater than 10,000 AIC shall have bolt—on breakers.  H. Bragkers size and grapity as shown as Schodules.
<ul> <li>M. Breakers size and quanity as shown on Schedules.</li> <li>N. Breakers listed as "spare" shall be furnished and installed.</li> <li>O. Panel listed with "space" shall be provided with extra space for future breakers.</li> </ul>
1. Each "space" shall be on one single pole.  P. Panels rated 225 amp. or less shall be provided as
full 42 space panels unless specifically noted otherwise. Q. Unless otherwise indicated on Drawings, install all
panels with the top of the trim 6'-3" above finished floor.  R. Install panelboards in location shown on the Drawings.  S. Panelboards shall be mounted with screws, bolts, or anchors as required.
T. Panels shall not be supported by conduit alone.  U. Where panels are installed on or near conductive
surfaces as defined by the National Electrical Code, 3/4 inch ply boards shall be installed on walls
behind and beside the panels to assure code compliance.  CIRCUIT BREAKERS
A. Breakers shall be of the size specified on the Panel Schedules.
B. Breakers rated at 10,000 AIC shall be plug—on. C. Breakers rated greater than 10,000 AIC shall be bolt—on.
D. Breakers shall have visual trip indicators. E. Breakers sizes shall be verified against equipment it serves.
F. Current limiting breakers shall be used where shown on panel schedules. G. On three-phase panel, breakers shall alternate
consecutively between busses to provide a balance load.  H. Breakers type (Square D listed for reference only).
l. For Type NQO and NQOB Panels, the breakers shall be equal to the Square D numbers as listed below: Main Breakers:
1. 10,000 AIC — Q1B, Q2, KA, LA 2. 22,000 AIC — Q1B—VH, Q2—H, KA, LA
3. 42,000 AIC — KH, LA 4. 65,000 AIC — KH, LH
Branch Breakers: 1. 10,000 AIC — QO, QOH, Q1—H 2. 22,000 AIC — QO—VH, Q1—VH
3. 42,000 AIC — QIH 4. 65,000 AIC — QH
For I—Line panels, the main breaker shall be 65,000 AIC rated, and equal to Square D Models FA, FH, KA,
LA, LH, MA, MH. 7. The branch breakers shall be rated at 65,000 AIC and equal to Square D Models FA, FH, FY, IF, Q2, Q2—H,
Q2H, KA, KH, IK, Q4, LA, LH, MA, MH, ME. . Breakers listed as current limiting breakers shall be
equal to Square D — I — Limiter, in IF or IK frame sizes.

M. Furnish and install all circuits breakers as described on the panel schedules and drawings. A. General duty fuses shall be equal to Bussman 250 volt, B. Motor circuit fuses and compressor fuses shall be equal to Bussman 250V, "Fusetron FRN" dual element fuses. C. Current limiting fuses shall be equal to Bussman KTN—R fast acting fuses. DISCONNECTS A. Ampere rated for general disconnects.
B. Horsepower rated for motor disconnects.
C. Meet Federal Spec. W—S—865c for Heavy Duty Switches. D. UL Listed. E. Grey baked enamel finish. F. Quick—break operating mechanism. G. Visible handle. H. Meets NEMA KSI-1975 for Type HD. I. Indoor disconnects shall be NEMA 1. J. Outdoor disconnects shall be NEMA 3R. K. Supply and install a disconnecting means for each motor where required by N.E.C. shown on drawings. L. Locate disconnect as shown or as near as possible to motor. M. Disconnects furnished as an integral part of any piece of equipment shall be accptable in lieu of a safety switch. N. Switches shall be fused where shown on drawings. O. Motor rated switches shall be acceptable as disconnects for motors of 1/3 HP or less. A. Provide magnetic or manual starters and associated equipment as required for each motor. B. Each starter shall have properly sized thermal overload protection for the motor it serves. C. Overloads shall be manual reset type. D. Supply and install magnetic motor starters with appropriate control buttons or switches for each piece of equipment unless other specifications call for starter to be furnished with equipment. E. Contractor shall coordinate with both general contractor and mechanical contractor to assure that a starter has been provided for all equipment. F. Provide all starters with H.O.A. switches. COMBINATION STARTERS A. Where both a disconnect switch and motor starter are required, a combination starter shall be acceptable in lieu of individual components. B. Provide all starters with H.O.A. switches. WIRING DEVICES A. Model or part number listed below are for reference and establishing quality. B. In so far as practical, all wiring devices shall be the same manufacturer. C. All catalog numbers listed are Hubbell unless D. Acceptable manufacturers shall be Hubbell, Pass Seymour, Leviton, or Arrow-Hart. E. General Purpose Receptacles 1. General purpose receptacles shall be grade, 120 volt AC, 15 amp, NEMA 5-15R, grounding type, ivory. 2. Catalog numbers shall be: a. Single receptacle: 5261-l b. Duplex receptacle: 5262-1 F. Single appliance type
1. Single appliance type receptacles shall be specification grade, 120 volt AC, NEMA 5-20r, 20 amp, grounding type, ivory. 2. Catalog numbers shall be: a. Single receptacle: 5361-l b. Duplex receptacle: 5362-1 G. Special purpose receptacle 1. Special purpose receptacles shall be installe as required and as shown to match equipment 2. Catalog numbers for special purpose receptacles shall be as follows, based on voltage and amperage: VOLT AMPS NEMA COLOR CAT. NO. 125 30 5-30R Black 9308 125 50 5-50R Black 9360 250 30 6-30R Black 9330 250 50 6-50R Black 9367 H. Switches 1. General lights switches shall be specification grade, 125–277 volt, 15 amp, heavy duty, ivory. 2. Catalog numbers shall be: DPST 1102-1 3-Way 1103-1 4-Way 1104-1 3. Motor rated switches shall be used for any controlling singles phase motors.
4. Motor rated switches shall be 120-277 volt and in accordance with the voltage and amperage of I. Cover plates 1. All cover plates shall be ivory plastic unless 2. Catalog numbers: a. Switches: Single gang——P1
Two gang————P2 Three gang---P3 b. Single Receptacle 93091 c. Duples Receptacle Single gang P8
Two gang P82 Two gang P82 d. Telephone plate Single gang plate with rubber bushing
e. Television plate Single gang with coaxial connector for cable connection. f. Special purpose outlets: Single gang P7882 Duplex 7423 g. Weatherproof covers: Switches 7420 Receptacles 5205W0 SERVICE ENTRANCE, METERING, GROUNDING AND GROUND FAULT PROTECTION A. Underground or overhead service entrance as shown on drawings.
 B. Installation of metering equipment and hardware as described herein or as shown on the drawings. C. All equipment and circuits shall be grounded in accordance with the National Electrical Code, Artical 250. D. Provide ground fault protection for all circuits noted on the drawings as GFI or in all receptacles in bathroom, and exterior location E. Provide ground fault protection an all temporary construction circuts as required by OSHA or the Nation Electrical Code.

SYSTEM DESCRIPTION A. Service Entrance 1. Provide overhead service entrance, meter base and/or current transformer cabinets, feeders, etc., as shown on drawings. B. System Ground 1. All conduits shall contain a continous "green" ground wore which shall be sized in accordance with Table 250-95 of the National Electrical Code. 2. The ground conductor shall be bonded to the conduit as the ground conductor.

3. Provide a driven ground rod as close as possible to the service entrance location, sized as shown on the drawings or in accordance 4. Bond ground to nearest cold water supply pipe and to footer or slab steel with same size conductor as regired for driven ground. 5. Provide ground wire #8 Minimum to the telephone board. C. Mechanical Equipment
1. All mechanical equipent motors shall have grounded cases.
2. All equipment shall have a ground wire bonded theequipment cabinet fame, ect., to the system ground. D. Ground Fault Protection
1. Ground fault protection shall be provided for all receptacles labelled GFI or where required by letter A of this section 2. The designation GFI on the drawings denotes a ground fault protected 3. Ground fault protection maybe provided by a ground fault receptacles or ground fault breaker. 4. Standard receptacles shall be considered ground fault protected if in series with an upstream GFI receptacle. FLUDRESCENT BALLASTS A. Furnish all fluorescent lighting fixtures with electronic energy saving type ballasts, for all F 32 T8 and F 24 T8 fixtures B. Ballasts for fluorescent lamps shall be UL listed. Class P, FCC Certifled, High Frequency (25 KHZ) Cathode Heat Cutback, and Translent Protected. C. Maximum wattage input to each 48" fluorescent tube shall be 34 watts and 24 watts for a 30 inch D. Ballasts shall be manufactured by G.E., Advance, or equal. A. Provide an empty conduit system for Telephone /Data including fish wires, boxes and blank plates. B. Conduit and outlets shall be as shown on the drawings and the telephone riser. C. Consult the local utility representative for any special requirements prior to starting the work. D. Provide phone board as shown with 120 volt outlet and ground mounted on the board. E.D. Provide DATA board as shown with 120 volt outlet and ground mounted on the board. SURGE SUPPRESSORS A. All surge suppressions devices shall be manufactured by a company normally engaged in the design, development, and manufacture of such devices for electircal and electronics systems equipment, the said firm shall offer a five - year (5) warranty. B. Equipment certificaion: Items shall be listed by underwritters' laboratories, shall bear the UL seal and be amrked in accoradance with referenced C. Surge suppressions devices shall be installed and located in accordace with requirements of all applicable National Fire Protection Association (NFPA) D. Suppressors shall be designed for the specific type and voltage of electrical service and shall provide clamping action for both normal (L-N) and common (L-N-G) mode protectiton. E. Suppressors shall be a hybrid design, and include circuit with tight, wave-tracking clamping characteristics. F. Suppressor's shall be designed to withstand a maxium continuous operating voltage of not less than 155 normal RMS line voltage. G. Suppressors shall contain internal safty fusing, when required, to disconnect the suppressor from the electrical source if the suppressor falls, In order to prevent catastrophic failure modes.

ELECTRICAL SPECIFICATIONS

PACKAGED UNIT SCHEDULE - ELECTRIC COOLING/ELECTRIC HEAT PUMP W/ AUX STRIP 208/30 RATING CONDITIONS HEATING CAP @47/70 AIR FLOW INDOOR FAN AUXILLIARY HEATER COOLING CAPACITY ELECTRICAL FAN COMMENTS SENS. EER IPLV AMB EAT-DB/WB BTUH HSPF/COP CONFIG AIR FLOW CFM SP. DRIVE RPM HP VOLTS/Ø/FLA KW STAGE VOLTS PH HTR AMP AMPS MCA BRKR V/PH AMPS PKG SIDE 3000 0.5 B 658 1 208/3/ 20.3 2 208 3 56.3 25 108 | 110 | 208/3 | ALL 11.1 | 12 | 95 80/67 80/59 3.4/2.2 SIDE 3000 0.5 B 7.5 91.75 51.31 11.1 | 12 | 95 | 80/67 PKG 658 208/3/ 20.3 2 208 3 56.3 25 3.5 108 110 208/3

DET #2

DET #4

					MINI-	SPL	_IT :	SYSTEN	/ AIR	CONDI	TIOI	NING	SCHED	JLE	<u>-</u>			
MARK	SYSTEM TYPE	MANUFACTURER	MODEL	NOM TON	COOLING CAPA		<del>-  </del>	G CONDITIONS				FAI	١		1	ECTRICAL		NOTES
					TOTAL BTUH	EER	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	13	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

COMMENTS

1 - PAD MTD, SIDE DISCHARGE PACKAGED UNIT

3 — R410A REFRIGERANT

DAMPER OPERATION 12 – PROVIDE DAMPER CONTROL INTERLOCK WITH EXHAUST HOOD START

11 - CO2 SENSING WITH CONTROLS FOR MOTORIZED

8 - ECONOMIZER WITH FULL ENTHALPY CONTROLS AND INTAKE HOOD

10 - PROGRAMMABLE 7 DAY - 4/DAY THERMOSTAT

FINISH GRADE	SQUARE/ROUND TRANSITION  BAND AND SEAL  2" BLANKET INSULATION  SQ./RD. ADAPTOR
– 48" LONG X24"ø CONCRETE PIPE	TAPE TO DEVICE SUPPLY AIR CEILING DEVICE
<b>√</b> 9	SHEETMETAL CONNECTION BOX W/2" BLANKET INSULATION  BRANCH TAKEOFF  FLEXIBLE DUCT  SPIN—IN COLLAR  JOINTS AND SEAMS  CEILING  CEILING
	TAPE TO DEVICE

DIFFUSER CONNECTIONS DRYWELL DETAIL

SYSTEM TYPE

1. WIRELESS REMOTE CONTROL

5. CLEANABLE ANITBACTERIAL FILTERS

2. USE LINE SET 0804F-50

CONDENSATE DRAIN PIPE

MARK

MFGR

HP-1 PACKAGE HEAT PUMP TRANE WSC 090E3

HP-2 PACKAGE HEAT PUMP TRANE WSC 090E3

3. VERTICAL AND HORZONTAL OSCILLATING ADJUSTABLE AIR FLOW

6. MOUNT OUTDOOR UNIT ON EQUIPMENT PAD AT GRADE.

4. LOW AMBIENT KIT FOR OPERATION DOWN TO 32' AMBIENT OUTDOOR TEMPERATURE,

SEAL WITH CAULKING ALL AROUND

ANCHOR STRAP -

FILL ENTIRE WELL WITH
1" GRADED WASHED GRAVEL-

EQUIPMENT PAD DETAIL

MODEL

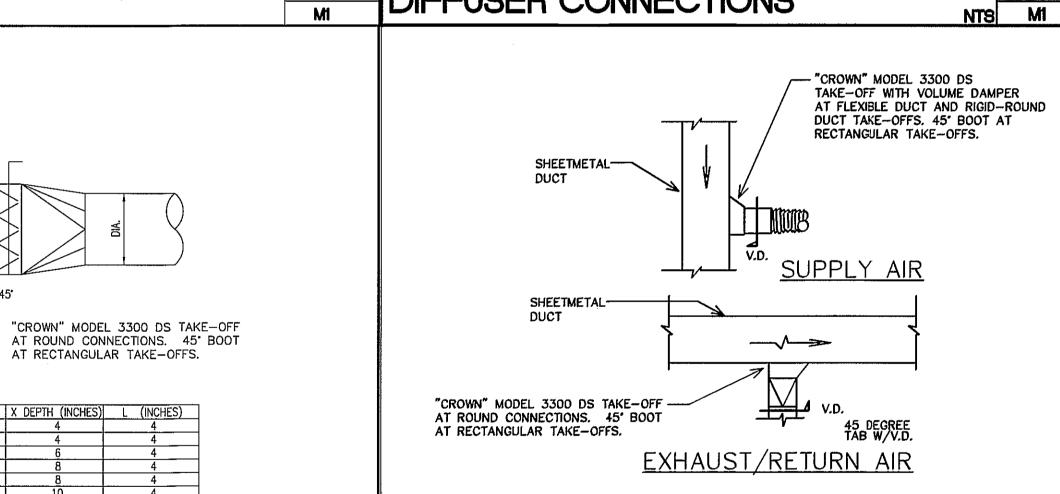
L/W/H/WT

88/54/97/840

88/54/97/840

NOM TON

7.5



NTS MI AHU CONDENSATE DRAIN DETAIL DET #6

ROUND DUCT TAKEOFF DETAIL DET #3	AIR DUCT DETAILS	DET #
SECURE OUTDOOR PAD-MOUNTED EQUIPMENT WITH ANCHORS EMBEDDED IN CONCRETE HOUSEKEEPING PAD IN AN APPROVED MANNER. MINIMUM ANCHOR SPACING TO BE 18" ON CENTER, ALL SIDES.  PAD TO EXTEND A MINIMUM OF 6" BEYOND ALL SIDES  GRADE  GRADE  VAPOR BARRIER	CONCRETE PAD OR PIER  1" THICK NEOPRENE PAD OF UNIT CONNECTION.  2. EXTERNALLY ISOLATED UNIT SHOWN, INTERNAL ISOLATORS SIMILIAR, WITH NEOPRENE PAD BETWEEN UNIT BASE RAIL AND CONCRETE PAD.  3. COORDINATE HEIGHT OF CONCRETE PAD TO PROVIDE MINIMUM TRAP DIMENSIONS INDICATED.  4. CONDENSATE PANS SHALL BE INSTALLED WITH	CH IN DRAIN  SATE DRAIN  H  X  FINISH FLOOR  DRAW THRU AHU P-TRAP  NEGATIVE STATIC PRESSURE  ( = 1/2 "H"  H = AT LEAST 1" PLUS  SCH. FAN STATIC PRESSURE  L= X + H + (1.5 x PIPE  DIAMETER) + INSULATION
	2. EXTERNALLY ISOLATED UNIT SHOWN, INTERNAL ISOLATORS SIMILIAR, WITH NEOPRENE PAD BETWEEN UNIT BASE RAIL AND CONCRETE PAD.  3. COORDINATE HEIGHT OF CONCRETE PAD TO PROVIDE MINIMUM TRAP DIMENSIONS INDICATED.	H = AT LEAST 1" PLUS SCH. FAN STATIC PRESSURI .= X + H + (1.5 x PIPE

MARK	TYPE	MANUF.	MODEL	NOM. CFM	NECK SIZE	AIR PATTERN	N.C.	MAT'L	FINISH	MOUNTING	COMMENTS		
$\Diamond$	SUPPLY	TITUS	TMSA	300	24X24-10"ø	4 WAY	<29	2	1	1	1,3		
B	SUPPLY		TMSA	300	24X24-10"ø	3 WAY	<29	2	1	1	1,3		
(C)	SUPPLY		TMSA	400	24X24-12"ø	4 WAY	<29	2	1	1	1,3		
(D)	SUPPLY		TMSA	100	24X24-6"ø	4 WAY	<29	2	1	1	1,3		
Œ	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		
<b>©</b>	SUPPLY		TMSA	200	24X24-8"ø	4 WAY	<29	2	1	1	1,3		
H	RETURN		4FL	1350	24X48	RET.	<29	2	1	1	4		
$\bigcirc$	EXH		4FL	300	12X12	RET.	<29	2	1	1	4		
(I)	EXHAUST		4FL	150	8X8	EXH.	<29	2	1	1			
⟨K⟩	EXHAUST												
	EXHAUST												
$\bigcirc$													
1. S 2. A	ATERIAL: FINISH: MOUNTING COMMENTS:  1. STEEL 1. WHITE ENAMEL 1. 24" X 24" LAY—IN 1. OPPOSED BLADE DAMPER 2. ALUMINUM 2. ANODIZED CLEAR 2. DRYWALL 2. EQUALIZING DEFLECTOR 3. SQUARE/ROUND ADAPTER 4. 4. FILTER BACK												

DISCHARG

	EXHAUST FAN SCHEDULE  MARK MFGR. MODEL TYPE WATTS HP RPM CFM. SP. VOLT/07 COMMENTS														
MARK	MFGR.	MODEL	TYPE	WATTS	HP	RPM	CFM.	ŜP.	VOLT/0/	COMMENTS					
EF-1	BREIDERT	CWD	090AS	_	1/4	1030	300	0.375	120/1	1,2					
FOR HOOD	SUPPLY AND E	KHAUST SEE M	.1,2,3,4												
			.,.	Ì											

DAMPER AT WALL 2 - PROVIDE SOLID STATE SPEED CONTROL

ASHRAE	62.1	STAN	DARD	<u> </u>	TSIDI	E AIR	REQ	UIREMENTS
	AREA	SPACE RE	QUIREMENTS	00	CCUPANCY	REQUIREMENTS		TOTAL 0 (4 05H
ROOM NAME	(SQ. FT.)	CFM/SQFT	СЕМ	PEOPLE/SQFT	PEOPLE	CFM/PERSON	CFM	TOTAL O/A CFM
SALES	2225	.12	267	15/1000	33	7.5	250	517
STORE	323	.12	38		<del></del>			38
CORR	140	.06	8		-		<del></del>	8
TOTAL								563

AIR BA		NC	E S	SCH_	EDL	JLE	
OPERATION MODE	HP-1	HP-2	EF1	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

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	757060	65	
4 FREE COOLING *	75-70-60	75-70-60	65	

2 - LOW AMBIENT START TO O'F

4 - SINGLE POINT POWER 5 - SUPPLY SMOKE DETECTOR 6 - 2" MERV 7 FILTERS

7 - PHASE MONITOR AND PHASE REVERSAL PROTECTION

9 - MOTORIZED O.A. DAMPER AND

5	2. 3.	EQUALIZING DEF SQUARE/ROUND FILTER BACK

	FANS WITH INTE		•					FACE	GRILLE	AND BACKDRAFT DAMPER	
		EXHAL	JST F	AN SC	HED	ULE					•
ARK	MFGR.	MODEL	TYPE	WATTS	HP	RPM	СҒМ.	EXT. SP.	VOLT/0/	COMMENTS	
-1	BREIDERT	CWD	090AS	_	1/4	1030	300	0.375	120/1	1,2	
HOOD	SUPPLY AND E	KHAUST SEE M4	.1,2,3,4								•

1 - PROVIDE WITH BACK DRAFT

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

MECHANICAL LEGEND

SQ SUPPLY DIFFUSER, SEE DESINATION FOR TYPE

ROUIND SUPPLY DIFFUSER, SEE DESINATION FOR TYPE

RETURN GRILLE, SEE DESINATION FOR TYPE

EXHAUST GRILLE, SEE DESINATION FOR TYPE

DUCT SCOOP TAKEOFF WITH BALANCING DAMPER

DIFFER/GRILLE TYPE SEE SCHEDULE

TURNING VANES

REFRIGERANT LINES

THERMOSTAT

HUMIDISTAT

**QSD** TITTI DUCT MTD SMOKE DETECTOR

REMOTE TEMP SENSOR

MANUAL VOLUME DAMPER

MOTORIZED VOLUME DAMPER

CONDENSATE DRYWELL, SEE DETAIL

WALL MOUNTED EXHAUST FAN

CEILING MOUNTED EXHAUST FAN

INLINE FAN WITH VIBRATION ISOLATION

ROOF MTD EXHAUST FAN WITH CURB, SEE SECHEDULE

ROOF MTD GRAVITY RELIEF OR INTAKE SEE SCHEDULE'

WALL LOUVER/ INTAKE OR EXHAUST BY ARROW DIRECTION

(T) TEMP SENSOR DUCT MTD

H TTT HUMIDITY SENSOR DUCT MTD

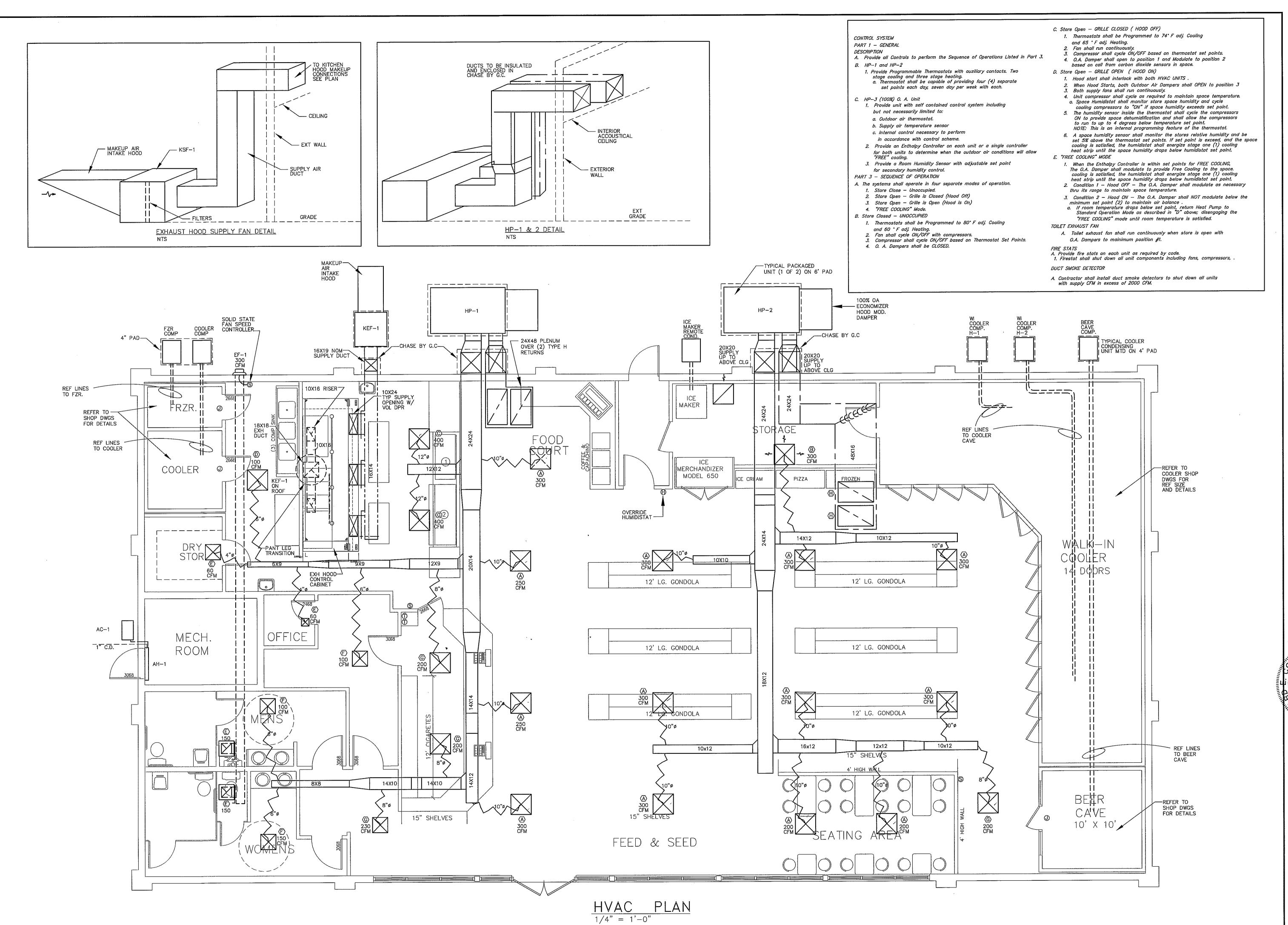
CONDENSATE DRAIN LINES

EXHAUST DUCT

FRESH AIR DUCT

FLEXIBLE DUCT

T1 / H1	== /		
] '' / '''	T2/ H2	H-3	
C - H - RH	C - H - RH	RH	
80-65-60	80-65-60	65	
75-70-60	75-70-60	65	
75-70-60	75-70-60	65	
	80-65-60 75-70-60	80-65-60 80-65-60 75-70-60 75-70-60	



RAIG SALLEY AND ASSOCIATES CHITECTS • PLANNERS • INTERIOR DESIGNERS NEWBERRY ROAD • GAINESVILLE, FLORIDA • LIC. NO. A0002479 • 352-372-8424

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LAKE CITY, FLORIDA

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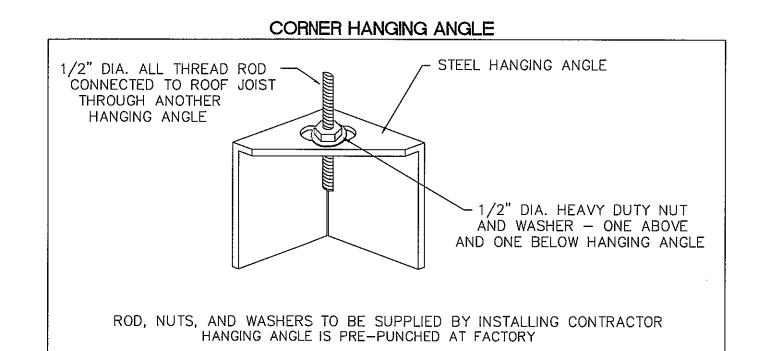
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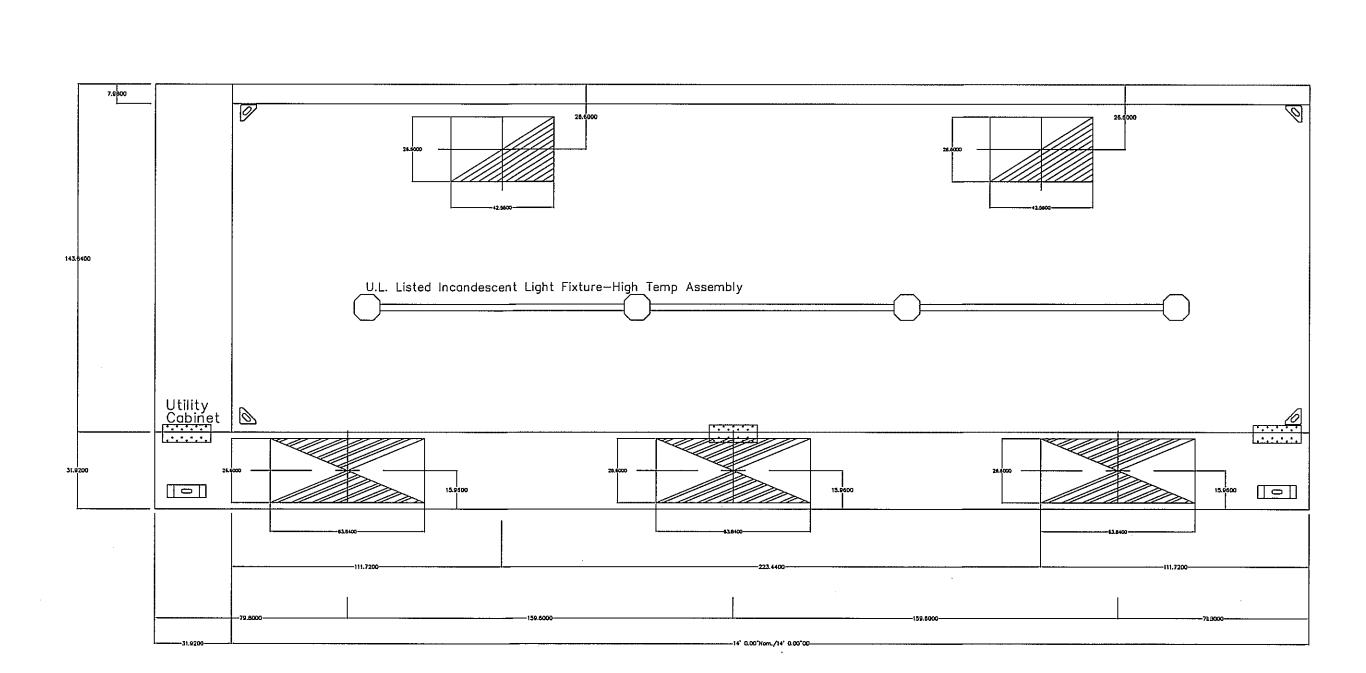
<u>F</u>	1001	O INFORMA	TION																
	1000			MAX.		E	XHAUS			• • • •		S	UPPLY PLE					HOOD (	CONFIG.
	HOOD	MODEL	LENGTH	COOKING	TOTAL			RISER	<u>(S)</u>		TOTAL		RIS	ER(S)			HOOD	END TO	
	NO.					WIDTH	LENG.	DIA.	CFM	S.P.		WIDTH	LENG.	DIA.	CFM	S.P.	CONSTRUCTION	END	ROW
	1	5424	14' 0.00"	600 Deg.	3500	10"	16"		1750	-0.454"	2800						430 SS	AL ONE	AL ONE
	ND-2-PSP-F			ooo beg.	3300	10"	16"		1750	<del>-</del> 0.454"	2800	2000					Where Exposed	ALONE	ALONE

HOOL	<u>INFORMATION</u>				_										
	FILTER(	S)				LIGHT(S)				UTILITY CAI	BINET(S)				11000
HOOD							WIRE		FIF	RE SYSTEM	ELECTRICAL	SWITC	HES	FIRE	HOOD
NO.	TYPE	QTY	'. HEIGHT	LENGTH	I QTY.	TYPE	GUARD	LOCATION	TYPE	SIZE	MODEL #	QUANTITY	LOCATION	SYSTEM HAI PIPING W	
1 1	SS Baffle with Handles	3	16"	16"		Incandescent Light Fixt	NO	Left	Angul B102	3.0/1.5	EMC11100	1_Light	Outside	VEC	788
	55 Baille with Handles	es 6	16"	20"	] +		110	Leit	Ansul R102 3.0/1.5		EMST102	EMS11102 1 Fan 1		YES	LBS

<u>H001</u>	D OPTIONS				. 13340		<u>-</u> .			
HOOD NO.	OPTION									
1	BACKSPLASH	84.00"	High	X	180.00"	Long	430 SS	****		

PERF	ORATE	D SUF	PPLY I	PLENU	M(S)			_			
							RISER(S)				
HOOD NO.	POS.	LENGTH	WIDTH	HEIGHT	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"		





PLAN VIEW - Hood #1 14' 0.00" LONG 5424ND-2-PSP-F NOTE: Additional hanging angles provided for hoods longer than 12 ft.

#### <u>GENERAL NOTES :</u> 1. ELECTRICAL HOOK-UP TO CAS 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. EXHAUST DUCT TO BE 16 GA. GAV STEEL ALL SEAMS AND JOINTS TO HAVE A LIQUID

TIGHT CONTINUOUS EXTERNAL WELD. FAN TO HAVE A MINIMUM OF 10 FT. OF CLEARANCE FROM THE DUTLET TO ADJACENT BUILDINGS, PROPERTY LINES, AIR INTAKES OR 3 FT. VERTICAL CLEARANCE PER NFPA96 HORIZONTAL EXHAUST DUCT TO SLOPE NOT LESS THAN 1/4" PER FOOT TOWARD HOOD FOR DUCT

LESS THAN 75' LONG. 1" PER FOOT SLOPE FOR DUCT LONGER THAN 75" 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 O. 02" WATER COLUMN AT EXTERIOR DOORS.

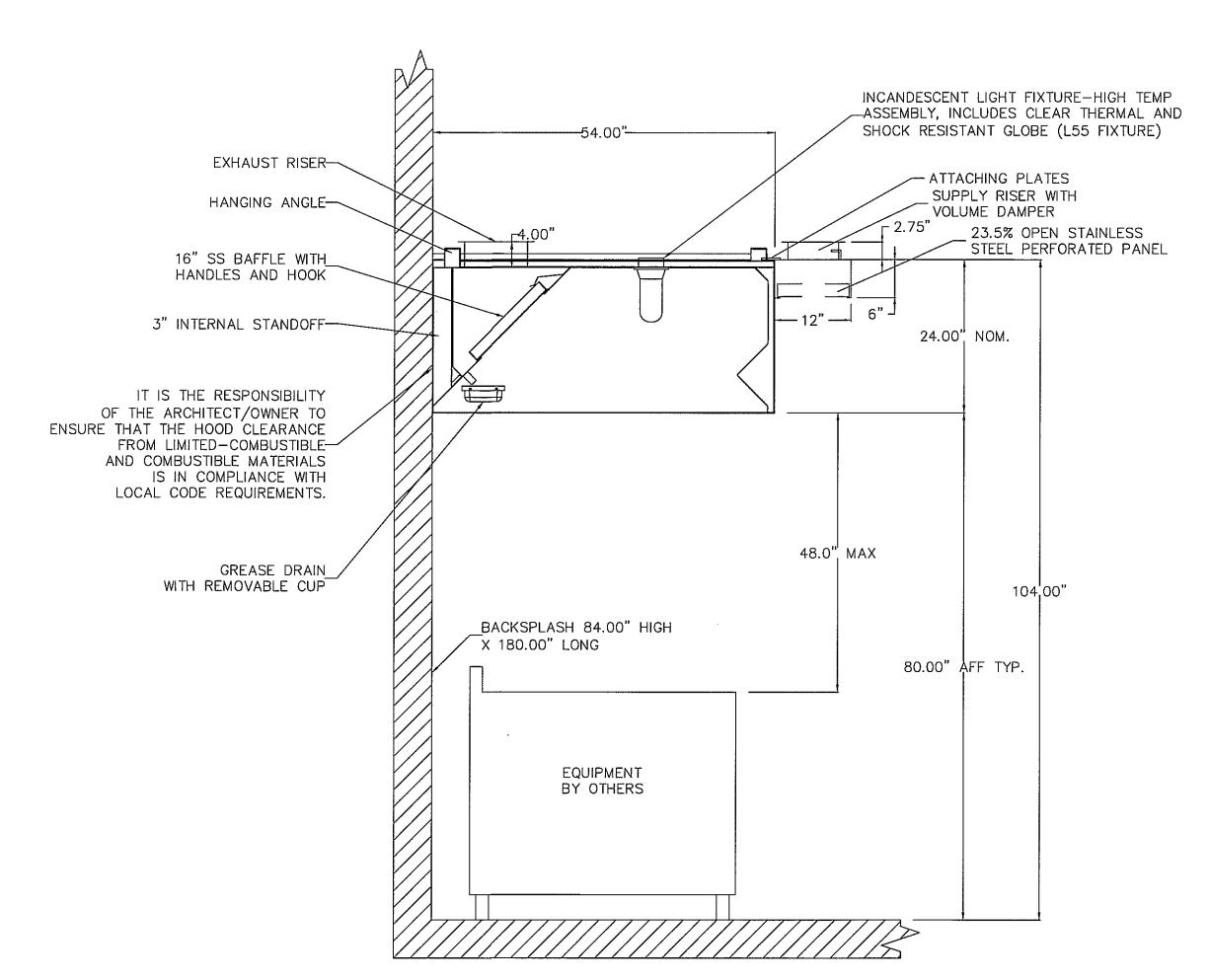
12. KITCHEN SHALL BE BALANCED TO BE NEGATIVE WITH RESPECT TO THE DINING ROOM.

CAPTIVE-AIRE HOODS ARE BUILT IN COMPLIANCE WITH



NFPA #96 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



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

<u>EXHA</u>	UST FAN INFORMATION		**************************************	F	<b>.</b>						
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 UNIT NO. FAN UNIT MODEL # CFM RPM H.P. | Ø | VOLT | FLA | WEIGHT (LBS.) | BLOWER HOUSING TAG S.P. 2 A2-G12 G12 A2 2800 | 0.650 | 724 | 1.000 | 3 | 208 | 3.3 | 322.38

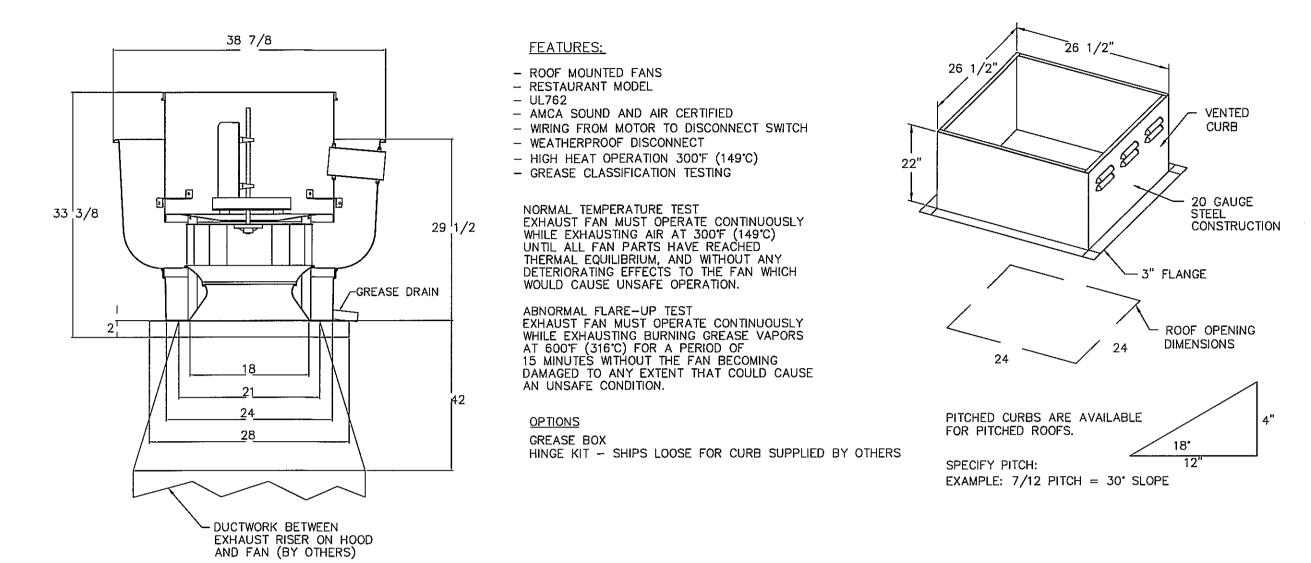
FAN	OPTIONS											
FAN	OPTION (Qty Descr.)											
1	1 — Grease Box											
	1 — Hinge Kit — Ships Loose for Curb Supplied by Others											
2	1 - Separate 120V Wiring Package (Required for EMS or Prewire with VFD) - Three Phase Only											

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

CUR	B ASS	SEMBLIES	
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 × 31.000"L × 15.000"H

ITHE SIZE POINTS SYSTEM LOCATION ON HOOD TYPE WITH A FIXED NOZZLE AGENT WITH UNDERWRITERS LADGRATORIES THE SYSTEM SHALL BE CAPABLE OF THE SYSTEM HOND ABOVE. TWO SITE WISITS DIME TEST: ADDITIONAL WISITS WILL RESULT IN ADDITIONAL CHARGES). ONE REST: ADDITIONAL WISITS WILL RESULT IN ADDITIONAL CHARGES). ONE REST: ADDITIONAL WISITS WILL RESULT IN ADDITIONAL CHARGES). ONE REST: ADDITIONAL WISITS WILL RESULT IN ADDITIONAL CHARGES). ONE REST: ADDITIONAL WISITS WILL RESULT IN ADDITIONAL CHARGES). ONE REPORT OF THE CHARGES OF THE CAPABLE OF THE	• •
ICLUDES: FIELD INSTALLATION AND HOOKUP DURING NORMAL BUSINESS HOURS Y CERTIFIED INSTALLERS ONLY IN THE LOCATION NOTED ABOVE, TWO SITE VISITS NLY (ONE VISIT TO SET PULL STATION & SYSTEM HOOKUP AND ONE VISIT FOR NE TEST; ADDITIONAL VISITS WILL RESULT IN ADDITIONAL CHARGES, ONE ECHANICAL GAS VALVE PER SYSTEM AT A MAXIMUM SIZE OF 2", PERMIT, AND SYSTEM TEST; XCLUDES: UNION LABOR & PREVAILING MAGE (LABOR & WAGES WILL BE ADDED ONNECTIONS, HANGING OF FIRE CABINET, SHUNT TRIP, HANDHELD XTINGUISHER(S), ON-SITE RE-PIPING DUE TO EQUIPMENT LAYOUT CHANGES.  DUCT PROTECTION NOZZLE  DUCT PROTECTION NOZZLE  DUCT PROTECTION NOZZLE  REMOVABLE STAINLESS  DUCT PROTECTION NOZZLE  REMOVABLE STAINLESS  DUCT PROTECTION NOZZLE  REMOVABLE STAINLESS	
CLUDES: FIELD INSTALLATION AND HOOKUP DURING NORMAL BUSINESS HOURS Y CERTIFIED INSTALLERS ONLY IN THE LOCATION NOTED ABOVE. TWO SITE VISITS NLY (ONE VISIT TO SET PULL STATION & SYSTEM HOOKUP AND ONE VISITS FOR INC. YOUR VISIT TO SET PULL STATION & SYSTEM HOOKUP AND ONE VISITS FOR INC. YOUR VISIT TO SET PULL STATION & SYSTEM HOOKUP AND ONE VISITS FOR INC. YOUR VISIT TO SET PULL STATION & SYSTEM HOOKUP AND ONE VISITS WILL RESULT IN ADDITIONAL CHARGES, ONE ECHANICAL CAS VALVE PER SYSTEM AT A MAXIMUM SIZE OF 2", PERMIT, AND KILDDES: UNION LABOR & PREVAILING WAGE (LABOR & WAGES WILL BE ADDED APPILOABLE), ASS VALVE INSTALLATION, ELECTRICAL HOOKUP AND ONNECTIONS, HANGING OF FIRE CABINET, SHUNT TRIP, HANDHELD KINGUISHER(S), ON-SITE RE-PIPING DUE TO EQUIPMENT LAYOUT CHANGES.  DUCT PROTECTION NOZZLE  TEMPERATURE SWITCH  DETECTOR  APPLIANCE PROTECTION NOZZLE  TEMPERATURE SWITCH  DETECTOR  REMOVABLE STAINLESS	ACTUATION. ACCESSORIES SHALL BE
TEMPERATURE SWITCH DETECTOR  APPLIANCE PROTECTION NOZZLE  REMOVABLE STAINLESS	BE A POTASSIUM CARBONATE, POTAS ESIGNED FOR FLAME KNOCKDOWN AND IALL BE AVAILABLE IN PLASTIC CONTA
STEEL SERVICE DOOR  AGENT TANK  OEM RELEASE/ BRACKET ASSEMBLY  TYPICAL ANSUL R102 FIRE SUPPRESSION SYSTEM  WITH ENERGY MANAGEMENT SYSTEM	
(UTILITY CABINET CAN BE LEFT OR RIGHT MOUNTED)	

#### <u>FAN #1 NCA18FA — EXHAUST FAN</u>

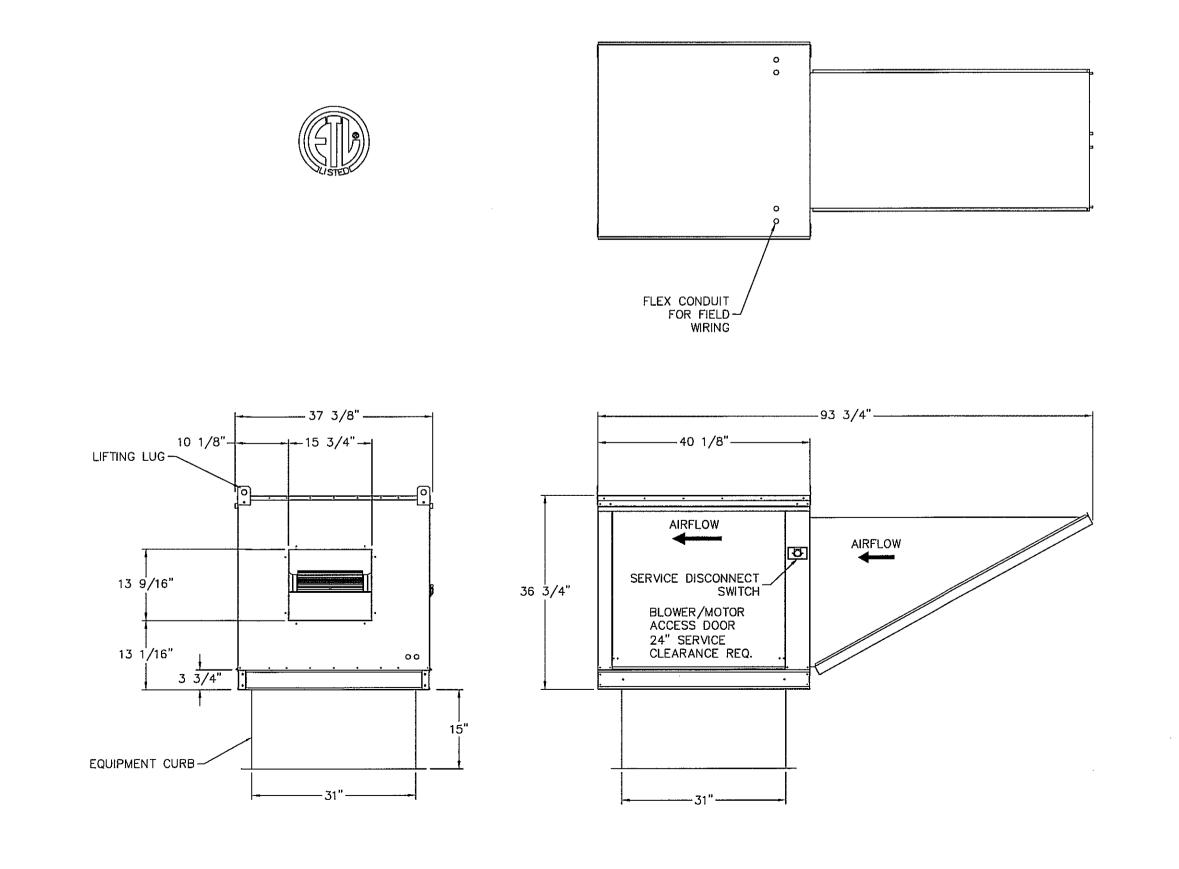


FAN #2 A2-G12 - SUPPLY FAN 1. UNTEMPERED SUPPLY UNIT WITH 12" BLOWER IN SIZE #2 HOUSING

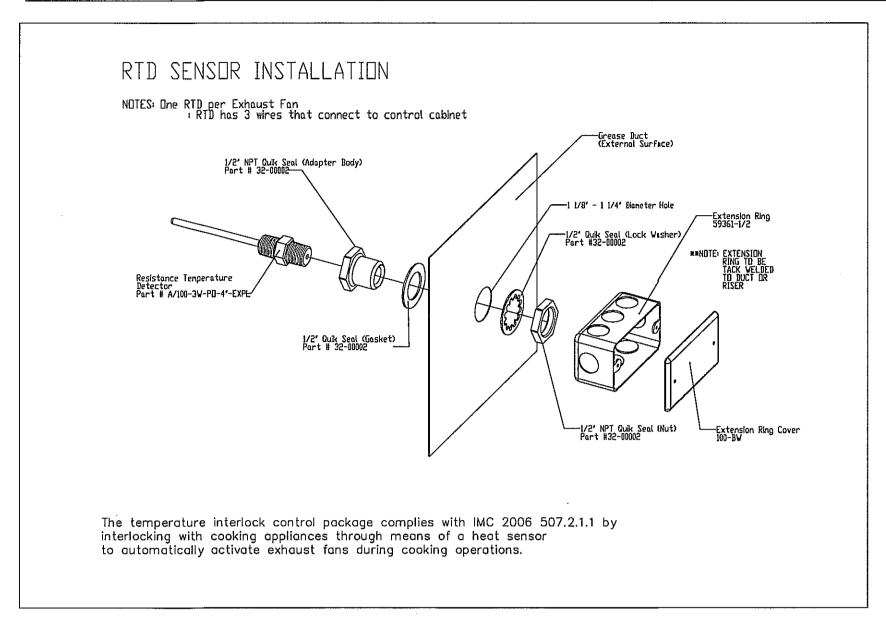
2. INTAKE HOOD WITH EZ FILTERS

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.

 $\frac{\text{HVAC}}{1/4" = 1'-0"} \frac{\text{PLAN}}{1}$ 



NO.	IO. TAG PACKAGE #		LOCATION	SWITCH	(ES	ROOFTOP	OP TION	FA	FANS CONTROLLE				
		"	255/(1151)	LOCATION	QUANTITY	STARTERS	OI MON	TYPE	ø	H.P.	VOLT	FLA	
	1 EMS11102		Utility Cabinet Left 1 Light  Utility Cabinet Left 5 Exhaust in Fire		Euleanal in Cia		7	1 500	200	4.7			
'	1 EMS	EMSITIOZ	Othrty Cubinet Left	Hood # 1	1 Fan 1 Other		Exhaust in Fire	Exhaust	)	1.500	208	4.7	
								Supply	3	1 000	208	7 7	
								Supply	3		1.000	1.000 208	



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 savings.

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 of the exhaust hood utility cabinet. The control enclosure may be constructed of stainless steel or painted steel.

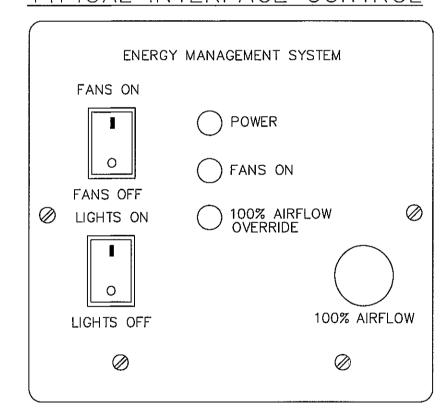
Variable frequency drives shall allow full adjustment of high speed and low speed airflows for proper kitchen balance. Drives shall contain motor thermal overload protection and control inputs for up to 7 preset speeds. Acceleration and deceleration times shall be fully adjustable as well as fan speed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

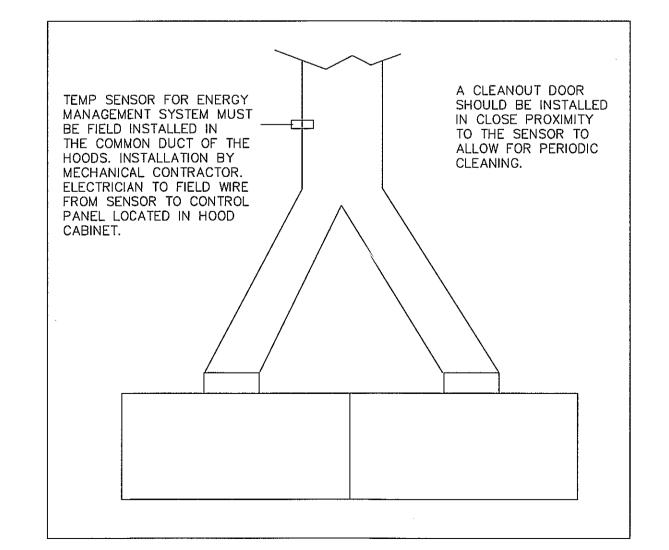
Adjustable temperature switch shall be mounted in the exhaust hood riser. Temperature probe shall be constructed of Stainless Steel. Temperature switch shall be factory set at 130°F for 600°F cooking applications and 90°F for 400°F cooking applications. The temperature sensor is fully modulating and 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.

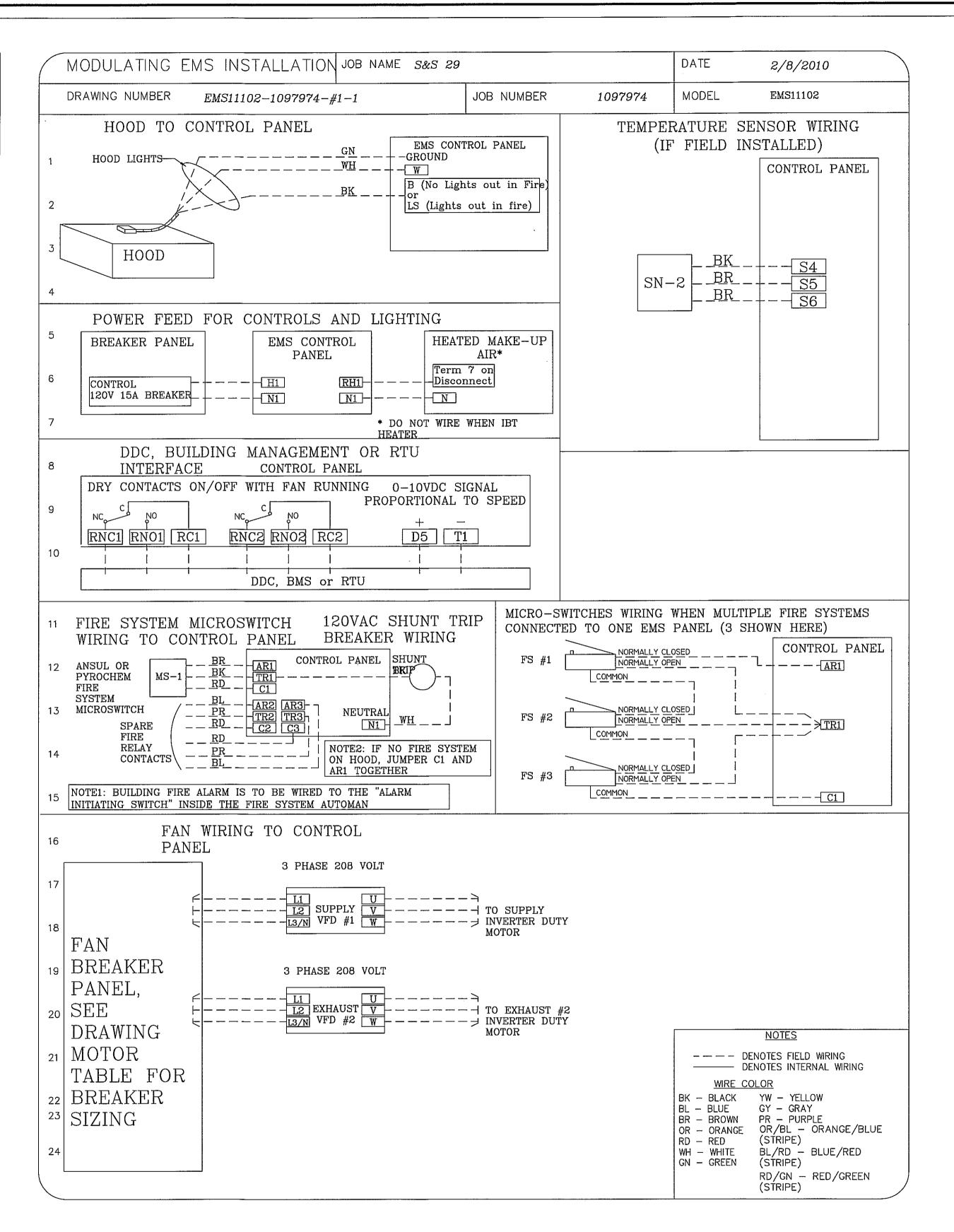
The timer shall contain one instantaneous contact and one delayed contact. Time shall be adjustable from .05 seconds to 30 days. Timer is energized with the 100% Airflow Override button. When button is depressed, time starts and fans go to high speed. Upon timeout, fans return to low speed or speed dictated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

The panels include color coded wiring with as—built wiring diagrams, and spare 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







AN IERS .

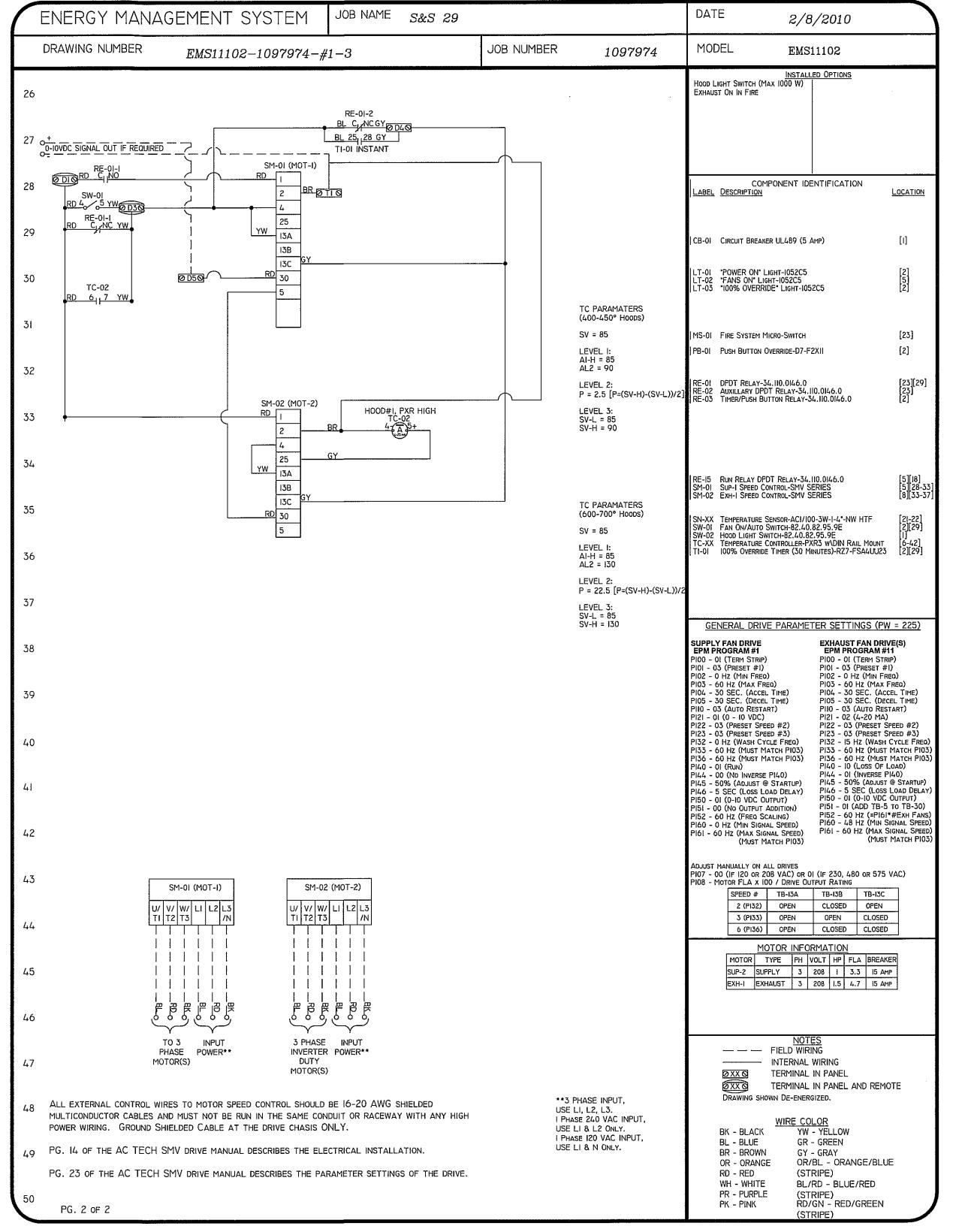
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& PINEMOUNT

LAKE CITY, FLORIDA , S Ш S & BIRL

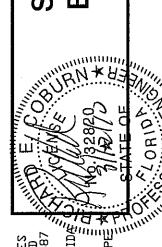


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LAKE CITY, FLORIDA



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REC

13.4

OF SUFFETS

line or branch duct for insertion of air-flow

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

pitot for flow measurement.

DISPOSABLE FILTERS

B. MERV-7

 $\overline{\phantom{a}}$ 

COPPER PIPE A. Refriaerant

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

a. Bonded joints using adhesive per manufacturer's recommendations 3. Fittinas 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. 3. Fan motor shall be resiliently mounted and shall be easily remayable for service.

4. Fan motor shall be permanent -split-capacitor type with integal overload protection, high - efficency, Florida Energy Code Minimum. 5. Cooling coil shall have aluminum fins machanically bonded to copper tubing. Coil shall have factory installed refrigerant metering devices. D. Compressor and Condensing Section

and service ports shall be located on exterior of unit. 2. Outdoor coil shall be constructed with aluminum fins mechanically bonded to non-ferrous tubina. Factory installed coil refrigerant metering device shall be mounted on unit liquid service valve. Metering device internal components shall be removable

air dischage. Fan motor shall be factory lubricated, inherently protected and resiliently 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 device. 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.

equipment listings and applicable codes. 1. O. A. Damper shall modulate to full open position to provide maximum use

G. Refer to Mechanical Equipment Schedule for Model Numbers. 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. . Acceptable Manufacturers Breidert

1. Acoustically insulated steel housing Spum 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

8. Provide speed control on direct drive fan. SREASE EXHAUST HOOD:

A APPROVED. a. HOOD SHALL BE MANUFACTURED IN ACCORDANCE WITH NFPA #96 AND NSF SUPPLY MAKE-UP AIR AND EXHAUST ON DUCT COLLARS.

P. HOOD LIGHTS WITH GLOBES AND GUARDS.

. SPECIFIC HOOD REQUIREMENTS SEE SCHEDULES. 16 GAUGE, EXHAUST DUCTWORK SHALL COMPLY WITH FLORIDA MECHANICAL CODE

C HOOD EXHAUST AND MAKE UP FANS SHALL BE UL AND NSF LISTED, SEE SCHEDULE

D GREASE EXHAUST HOOD EXTINGUISHING SYSTEM:

2. AUTOMATIC, FIXED PIPES EXTINGUISHING SYSTEM 3. GALVANIZED STEEL PIPE SIZED PER MANUFACTURER'S INSTRUCTIONS. 4. AUTOMATIC AND MANUAL TRIP DEVICE.

6. FIRE EXTINGUISHING SYSTEM SHALL BE INSTALLED IN ACCORDANCE WITH THEIR LISTING AND WITH MANUFACTURER'S INSTRUCTIONS. 7. SYSTEM SHALL BE ACCEPTABLE TO THE FIRE MARSHAL'S OFFICE AND

8. SYSTEM SHALL BE DRY CHEMICAL OR ANSUL. 9. TRIP MECHANISM, MANUAL OR AUTOMATIC, SHALL HAVE AUXILIARY CONTACTS IO. CONTRACTOR SHALL PROVIDE FIRE SUPPRESSION SYSTEM SHOP DRAWINGS

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

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.

C. RAW Outdoor air ductwork in shall be low-pressure metal. 1. Insulation not required D. Precondition Ventlation air shall be low pressure sheetmetal 1. Extenal 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 vaness, transverse reinforcing hangers, suppoorts, etc., as detailed on the Drawings 3. Provide and install balancing dampers or adjustable splitters at all branch ducts, and where required for balancina the system. 4. Each damper shall be adjustable with an approved guadrant or 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 over 84 inches F. KITCHEN HOOD EXHAUST SHALL BE GALVANIZED STEEL WELDED SEAM, LIQUID TIGHT, MINIMUM 16 GAUGE, EXHAUST DUCTWORK SHALL COMPLY WITH FLORIDA BUILDING CODE 2007 -MECHANICAL WITH 1. Prefco Manufacturing Co. 2008 AND 2009 SUPPLEMENTS AND NFPA 96. G. Plenums shall be constructed and tested in accordance with SMACNA STANDARDS H. FLEXIBLE CONNECIONS 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. l. 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 recommended methods, metal gauges, hanging procedures, access door and accessory installation, etc., as outlined, the latest edition of SMACNA'S Duct Manual and Sheet Metal Construction for Ventilating and Air Conditionina 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 concealed in construction spaces above ceiings, 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 securly 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 AB 20 and asphalt mastic (bull). 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. Knauf B. Duct Wrap: 1. 2" inch thick fiberglass - R6 INSTALLED 2. Flamespread 25 per ASTM E-84 . 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 "Microlite"

1. Insulation tape, mastic, adhesives, etc., 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

2. Underside of ductwork greater than 24" wide shall also be secured with mechanical fasteners with tape. 3. Pressure tape is not acceptable.

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

Duct hangers may be a manufactured item or field fabricated as required. C. Galvanized steel straps 1. Minimum 16 gauge and one inch wide

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.

1. All ductwork shall be supported from 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,

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

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.

exposed ductwork shall be supported by trapeze type hangers. 2. Trapeze 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

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

1. Barber Colman

1. ACR Copper a. Solder using Silver solder or "Sil-Fos." b. Compression fittings may be used at equipment connections. a. Wrought copper b. Approved compression type brass. PLASTIC PIPE AND FITTINGS A. Air Conditioning condensate drains 1. PVC - ASTM D-1784-60T

a. Schedule 40.

HVAC SPECIFICATIONS

A. It is the intent of these specifications to define the work and materials typically

subcontract between the Mechanical Contractor and the General Contractor. The

General Contractor is responsible for the entire project and any questions regarding

B. Work shall include all labor, materials, fixtures, equipment, tools and service necessary

C. Drawings and Specifications shall be understood to cover, according to their intent and

for installation, testing and adjusting of all mechanical systems shall be furnished and

D. Minor items and accessories reasonably inferred as necessary for the complete and

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

local state and Federal Governments having lawful jurisdiction, and each contractor and

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

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

to the Engineer that each item on that system is installed with proper covers, safeties,

K. A set of "red-lined" mechanical drawings shall be carefully maintained at the job site.

will continuously show locations and routings of piping, ducts, grilles, equipment, valves,

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

M. Acceptable manufacturers are listed, additional manufacturers may request approval for

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

their products up to 10 days in advance of bid. Engineer may require supplemental

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

1. Sumittals shall include all equipment to be installed by the subcontractor and all

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

Q. Failure to determine existing conditions or nature of construction will not be considered as

1. Contract Drawings show the arrangements and sizes of principal apparatus and

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

3. No measurements shall be scaled from Drawings and used as definite dimensions

4. Layout of equipment, as shown on the plans, shall be checked and exact location

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

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

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

devices to be provided under this Contract and connection thereto. These shall be

3. The Engineer will review one submittal and one resubmittal; subsequent

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:

resubmittals may require a review charge to be paid by subcontractor.

and any equipment specified on the drawings or in these specifications.

J. Upon completion of each part of the mechanical system, the contractor shall demonstrate

Actual conditions are to be put on the drawings in red on a daily basis so the drawings

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

F. All work shall be performed or installed in strict accordance with Florida Building Code 2007-

Mechanical w/ 2008 and 2009 Supplements and all applicable rules, regulations and codes of

proper operation of any system shall be provided by contractor or subcontractor for

installed in compliance with the Drawings, Specifications, and any Addenda thereto.

meaning, complete mechanical systems. Work shown and not specified, or work

specified and not shown shall be performed as though mentioned in both.

installed by a Mechanical Contractor. However, it is not intended to define a

scope of work shall be directed to the General Contractor.

such system whether or not they are specifically called for.

subcontractor shall be responsible for such compliance.

specifications or manufacturers' recommendations.

controls, etc., and that all are in proper working order.

information prior to accepting or rejecting the alternate.

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

2. Examine all Contract Drawings and Specifications to determine:

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

followed as closely as actual building construction will permit.

determined by dimension if equipment approved by the Architect.

a. Contractor shall rough-in for all equipment, fixtures, etc., in building

whether or not such equipment is furnished by this Contractor or by

a. Determine in advance the location and size of all openings and chases

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

d. Sleeves shall be required at all points where piping passes through concrete

1. Work shall be coordinated between all Contractors, Subcontractors, Installers,

2. Any interference which develops or is foreseen and cannot be resolved by the

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

e. No additional compensation will be allowed for removal, relocation, repairs

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

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

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

U. Clear away all debris, surplus materials, etc., resulting from work on operations, leaving

W. Where factory finish is provided on equipment, all marred or damaged surfaces shall be

Y. Wipe clean or wash if necessary air surfaces of all coils, fan housings, fan wheels, fan

bearing, etc., covered to exclude dust and moisture; all stockpiled conduit shall be

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

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

1. Adjust variable type pulleys, volume dampers, control dampers, etc. to provide

7. Air conditioning units shall be placed in operation and both wet and dry bulb

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

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.

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.

temperature taken at one-hour intervals to determine the amount of cooling being

3. Adjust air extractors and manual balancing dampers to supply correct air volume

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

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

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.

placed on dunnage, and protected from weather, from entry of foreign materials.

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

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

Z. All pumps, motors, fans and other rotating equiment shall be stored at Site with openings.

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

a. Cease installation of that portion of the work which is in conflict as no

additional compensation will be allowed for any relocation, etc.

necessary for proper installation of all work and have openings and

b. Install all inserts for hangers and supports of mechanical work and

walls, slabs or masonry walls; sleeves installed below grade or where

subject to high water conditions shall be installed watertight.

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

d, Maintain maximum headroom and clearances.

affected trades, etc. shall be handled as follows:

c. Special problems encountered during construction.

c. Nature and extent of work of other trades.

a basis for granting additional compensation.

submittals must be made at same time.

a. Type of construction to be used.

for layout or fitting work in place.

chases provided during construction.

equipment work as general construction progresses.

member. foundations, etc.

conditions verified.

S. Rough-in:

2. Method:

T. Coordination:

Suppliers, Trades, etc., to:

c. Eliminate interferences.

BALANCING OF AIR SYSTEMS

and Adjustment Manual."

G. Open all dampers and grilles.

M. Adjustment and Balance:

a. Insure a neatly fitted installation.

c. Notify the Architect immediately.

or changes required by interferences.

job and equipment in clean first-class condition.

touched-up or refinished hereunder as approved.

motors, air unit plenums, and all air filters.

D. Reports shall be made on SMACNA forms.

H. Check lubrication of all moving equipment.

I. Check for proper installation of filters.

correct volumes to main trunk lines.

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

2. Check and adjust outside air quantities as required.

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

to each main branch duct from main trunk lines.

accomplished and to indicate adjustments needed.

1. Work included:

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

other subs and the General Contractor.

inspector having jurisdiction.

1. Site visit to determine:

a. Existina conditions.

R. Installation:

b. Type 1, Grade 1.

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

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

for cleaning or replacement. 3. Condenser Fan unit fan shall be propeller type, direct driven, and arranged for vertical

E. Resistance Heater: 1. Heaters shall be wired for the number of stages of operation indicated on the

2. Heaters shall be equipped with thermal and current overload devices as required by F. Elonomizer Hood and O.A. intake with Enthalpy Controller—

OA for cooling when Enthalpy Controller settings are within set points.

2. Carnes Greenheck G. General

removing entire fan housing.

b. CONSTRUCTION MATERIAL - TYPE 304 STAINLESS STEEL, 16 GAUGE AND 18 GAUGE. BAFFLE TYPE FILTERS MEETING NFPA 396 AND CLASSIFIED BY U.L. LIQUID TIGHT WELDED SEAMS.

q. HOOD DESIGN FOR SUPPLY OF 80% MAKE-UP OF OUTSIDE AIR FROM SUPPLY FANS.

B KITCHEN HOOD EXHAUST SHALL BE GALVANIZED STEEL WELDED SEAM, LIQUID TIGHT, MINIMUM

FOR MODEL AND CAPACITY.

I. DESIGNED TO MEET NFPA -96 AND FLORIDA BUILDING CODE 2007 MECHANICAL W/ 2008 \$ 2009 tructural building members, i.e. block, beams, columns, purlins, joists, etc. SUPPLEMENTS.

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

BUILDING DEPARTMENT.

TO SATISFY BUILDING OFFICIALS.

COMBUSTIBLES AT ZERO CLEARANCE. DUCTWORK

1. Insulation not required

or in the standards.

DUCT HANGERS AND SUPPORTS

D. Trapeze hangers 1. Ducts 20 inches to 40 inches largest dimension.

E. Supports

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

G. Trapeze Hangers 1. Horizontal ductwork larger than 20 inches largest dimension and all

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.

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. . Acceptable Manufacturers

3. Properly submitted approved equal

PLUMBING LEGEND

COLD WATER PIPING
HOT WATER PIPING

VENT PIPING

----RW----- RAIN WATER PIPING FLOOR

GAS PIPING

GAS VALVE

FLOW VALVE

o← P−TRAP

COMPRESSED AIR

DIRECTION OF FLOW

CHECK VALVE

PIPE TURNS UP

PIPE CAP

WALL HYDRANT

ROOF DRAIN
HOSE BIBB
GATE VALVE

HOT WATER CIRCULATOR

BTUH BRITISH THERMAL UNITS PER HOUR

PIPE TURNING DOWN

CLEANOUT UP TO FLOOR OR GRADE

WALL CLEANOUT OR CLEANOUT IN RUN

----RW-----

<u>——</u>G——

**─**►₩----

A/C ABOVE CEILING

A/F ABOVE FLOOR

A/G ABOVE GRADE

AD AREA DRAIN

B/F BELOW FLOOR

B/G BELOW GRADE

CLG CEILING

DN DOWN

CO CLEAN OUT

CW COLD WATER

DS DOWN SPOUT

FD FLOOR DRAIN

GI GREASE INTERCEPTOR

HWR HOT WATER RECIRCULATING

FA FRESH AIR

HB HOSE BIB

HW HOT WATER

HD HUB DRAIN

G GAS

SANITARY OR WASTE PIPING-ABOVE FLOOR
SANITARY OR WASTE PIPING-BELOW FLOOR

HOT WATER RECIRCULATING PIPING

RAIN WATER PIPING ABOVE FLOOR

ATMOSPHERIC BACK FLOW PREVENTER

REDUCED PRESSURE ZONE BACK FLOW PREVENTER

IW INDIRECT WASTE

RL RAIN LEADER

RW RAIN WATER

RD ROOF DRAIN

SAN SANITARY

SS | SANITARY SOIL

SA SHOCK ABSORBER

TW TEMPERED WATER

SV SANITARY VENT

VTR VENT THRU ROOF

WH WALL HYDRANT

YW YARD HYDRANT

W WASTE

WTR WATER

T&P TEMPERATURE & PRESSURE

MBH 1,000 BTU PER HOUR

NFWH NON-FREEZE WALL HYDRANT

PRV PRESSURE REDUCING VALVE

INV INVERT

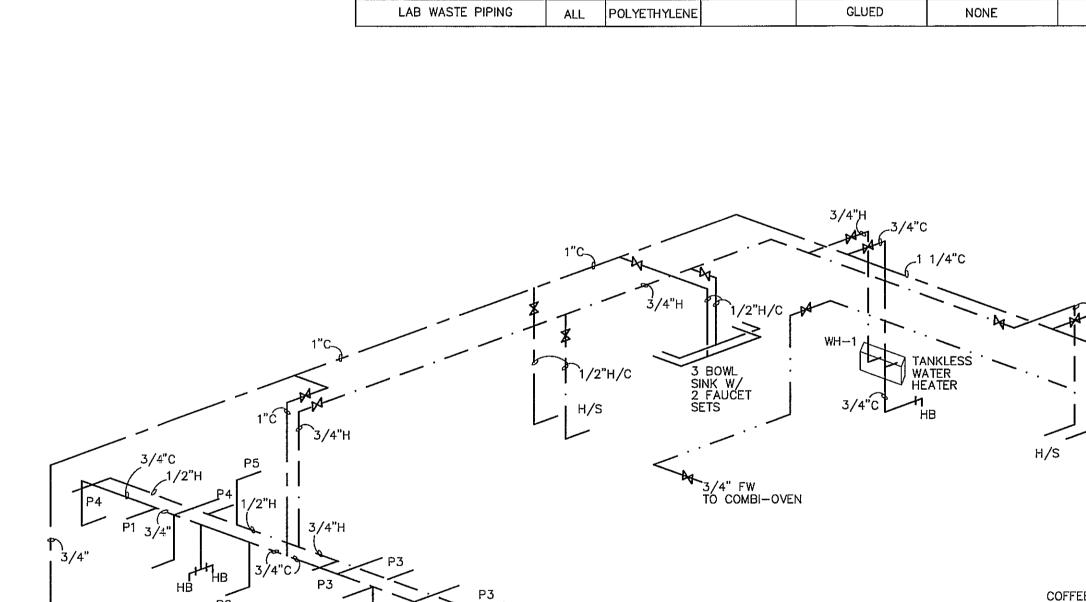
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	PLUMBING FIXTURE SCHEDULE												
MARK	DESCRIPTION	MANUFACTURER	MODEL	FITTINGS OR VALVES	SUPPLIES	TRAP	MOUNTING	ACCESSORIES	COLD	НОТ	WASTE	VENT	REMARKS
P1	WATERCLOSET	AMERICAN STANDARD	CADET 2168.100 1.6 GPF	BRASS SUPPLIES AND STOPS		INTEGRAL	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 OCR1912AZ	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 OCR1912AZ	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
Р6	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
			•										
Ĺ													

			WA	TER H	EATER	SCHE	DULE	
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	FACH	LINIT	
1204/12,	12	**		CIVIT.	

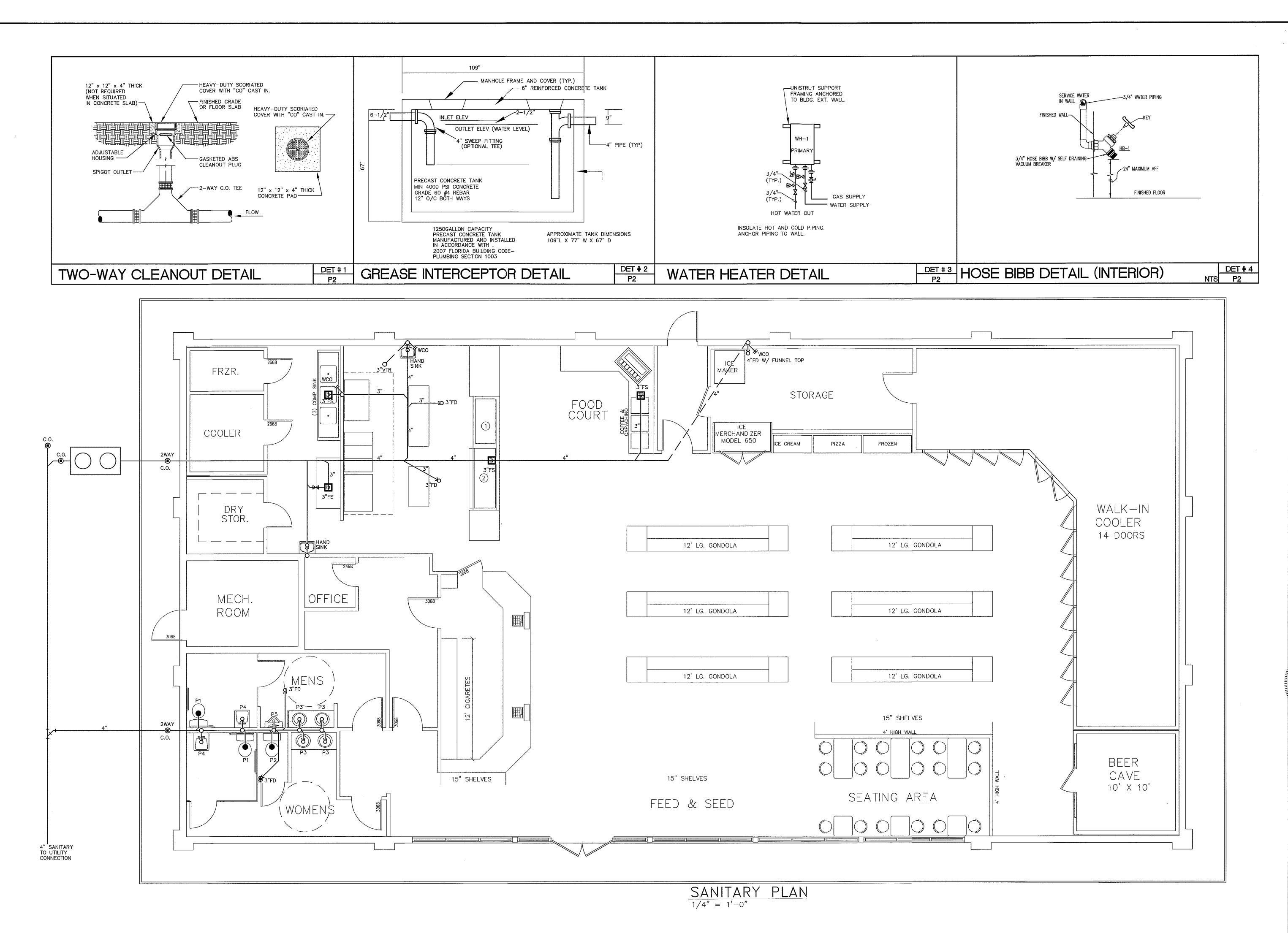
PIPING SCHEDULE - SEE NOTES						
USE	SIZE	TYPE	CONNECTION	INSULATION	THICK.	COMMENTS
DOM. COLD	ALL	CPVC	GLUED	NONE		SCH 40 ASTM D2846
DOM. HOT	ALL	CPVC	GLUED	FIBERGLASS	1" MIN R4	SCH 40 ASTM D2846
SANITARY/VENT	ALL	DVW	GLUED	NONE		SCH. 40 ASTM D 1784 60T
LAB WASTE PIPING	ALL	POLYETHYLENE	GLUED	NONE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





SANITARY RISER DIAGRAM
NTS





PAIG SALLEY AND ASSOCIATES HITECTS • PLANNERS • INTERIOR DESIGNERS NEWBERRY ROAD • GAINESVILLE, FLORIDA • LIC. NO. AA0002479 • 352-372-8424

S & S FOOD STORE NO. 29 BIRLEY & PINEMOUNT ROAD

HARD E CIBURN PE 100 PE

DATE
2/12/10

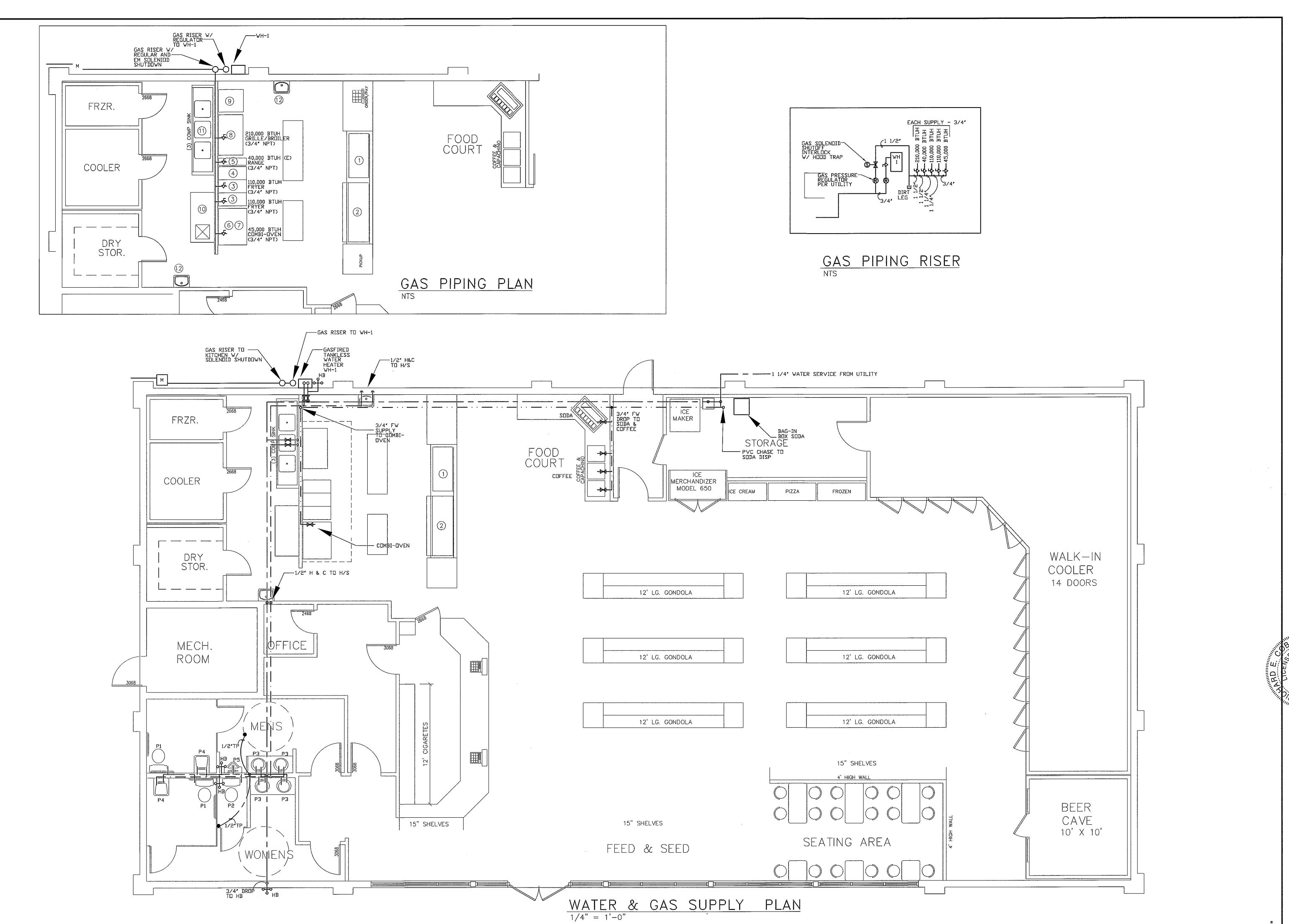
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ANDA · LIC.

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

NRN \*

DATE 2/12/10

DRAWN APPROVED REC

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P3

6. All stainless steel.

PDI-WH201.

*3. SS*-*3*,

. Designed and built in accordance with plumbing and drawing standard

A. All piping shall be supported by pipe hangers, clamps, clips or supports as

C. All adjustments shall be positively secured by a locknut or setscrew.

Hangers shall support the pipe size for which they are manufactured.

B. All clevis type hangers shall have a minimum of 1 1/2 inches of vertical adjustment by

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"

4. SS-4, MODEL 1250 - D - 1"

6. SS-6, MODEL 1250 - F - 1"

using turnbuckles and/or threaded rods.

PIPE HANGERS AND SUPPORTS

specified in this Section.

E. Acceptable Manufactures

2. Fee and Mason

MODEL 1250 - C - 1

MODEL 1250 — E -- 1"

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,

water supply and satisfactory to the public health authority having jurisdiction.

J. Samples shall not be drawn from hydrants or through unsterilized hose.

shall deem necessary to determine the cause of contamination

F. During Chlorination all valves and equipment shall be operated to insure that chlorine

extremities until the quality of water delivered is comparable with the quality of the public

H. Disinfection and flushing shall be repeated if samples taken daily over a period of three

K. If disinfection and flushing has been repeated three times and water quality cannot be

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.

maintained, the Architect shall have the authority to require disassembly of piping as he

I. Samples shall be taken only from taps located and installed in such a manner that they will

G. Following disinfection all treated water shall be flushed from the system through its

whichever is greater.

reaches all parts of the system.

not contribute any contamination.

days show that water quality is not being maintained.

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. 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. . 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 1 and 1-1/4 1-1/2, 2, 2-1/2 3 and 4 5 and 6 14 8 and larger 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. 2. Pipe hangers or clamps shall be attached to walls by means of expansion bolts UNIONS 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. Lavoratories 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. Sweat 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 Acceptable Manufacturers . Crane 2. Vogt 3. Sterling 4. Nibco 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, Nibco 763-LS or eaual 7. Provide with vacuum breaker. D. Wall Hydrant WH 1. Fully recessed with "key" operated cover. 2. 3/4" felmale 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 rating 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. . 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. 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. 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

E. Install insulation only after pipe has been thoroughly inspected and tested and accepted by

b. Equal to Johns-Manville "Aerotube Elastomeric Pipe Insulation."

the Architect, Engineer and State or local inspectors.

a. Flame spread - 30.

3. Adhesive

b. Smoke density — 100.

a. Air drying contact cement

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

equipment, ductwork or non-structural steel.

approved dielectric material.

columns, purlines, floor joists, etc.

H. Installation:

G. Pipe hangers in direct contact with copper shall be copper or lead plated, or of an

1. All piping shall be supported from structural building members, i.e. block, beams,

3. Perforated strapping may be used only for piping 3/4 in. or smaller and only when

2. Piping shall not be supported from ceiling tile or grids, conduit, mechanical

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. . 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 Manufactureres 1. Wade 2. Josam 3. Zurn B. Floor Drains: 1. Cast Iron floor drain with integral clamping collar. 2. Seepage openings 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"ø basin size 4. Provide 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. Josan 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." 8. 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 Terrazzo finish: (1) Wade W-7010-U Series, or equal. D. Concealed Cleanouts: 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 Same size as drain pipe through 4 inches.
 Position cleaout 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 opening.

. 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

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

removed and reinstalled.

manufacturers are acceptable.

PLUMBING FIXTURES

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PLUMBING SPECIFICATIONS