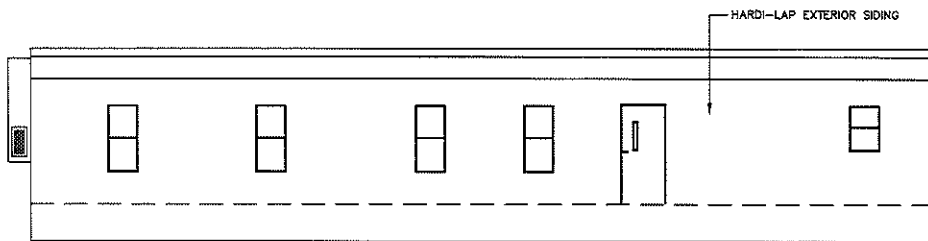
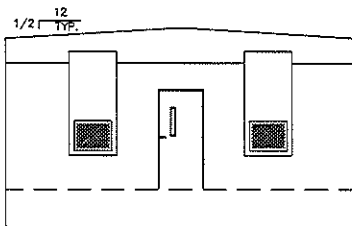


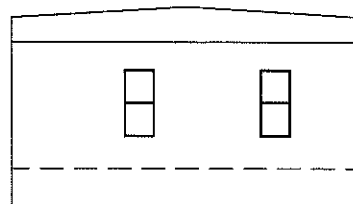
FRONT ELEVATION



REAR ELEVATION



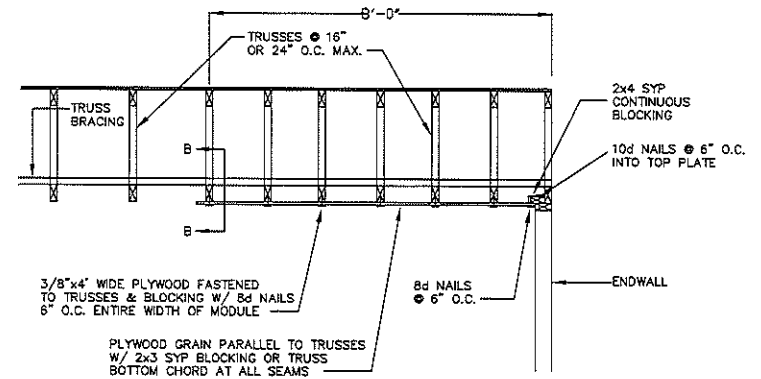
RIGHT ELEVATION



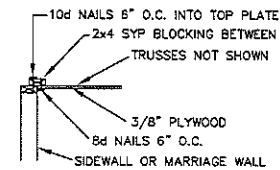
LEFT ELEVATION

TYPICAL ELEVATION NOTES:

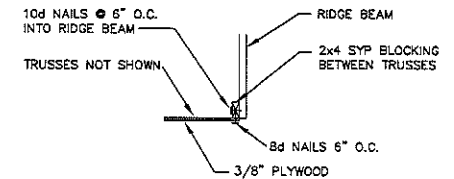
1. ALL SITE INSTALLED ITEMS ARE SUBJECT TO THE APPROVAL OF THE JURISDICTION HAVING AUTHORITY.
2. ACCESSIBLE RAMP(S), STAIR(S), AND HANDRAILS ARE DESIGNED BY OTHERS AND SITE INSTALLED.
3. FOUNDATION ENCLOSURE (IF PROVIDED) IS DESIGNED BY OTHERS AND SITE INSTALLED. ENCLOSURE MUST HAVE A MINIMUM NET AREA OF VENTILATION OPENINGS OF NOT LESS THAN ONE SQUARE FOOT FOR EACH 150 SQUARE FEET OF CRAWL SPACE AREA. LOCATE OPENINGS TO PROVIDE CROSS VENTILATION OF ENTIRE CRAWL SPACE. INSTALL AN 18" X 24" MINIMUM OPENING FOR CRAWL SPACE ACCESS.



SECTION A-A
(TYP. EACH ENDWALL)



SECTION B-B
(TYP. EACH SIDEWALL & MARRIAGE WALL)

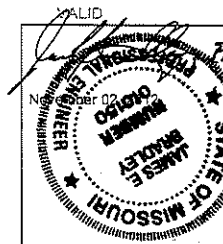


SECTION B-B
(TYP. AT RIDGE BEAM)

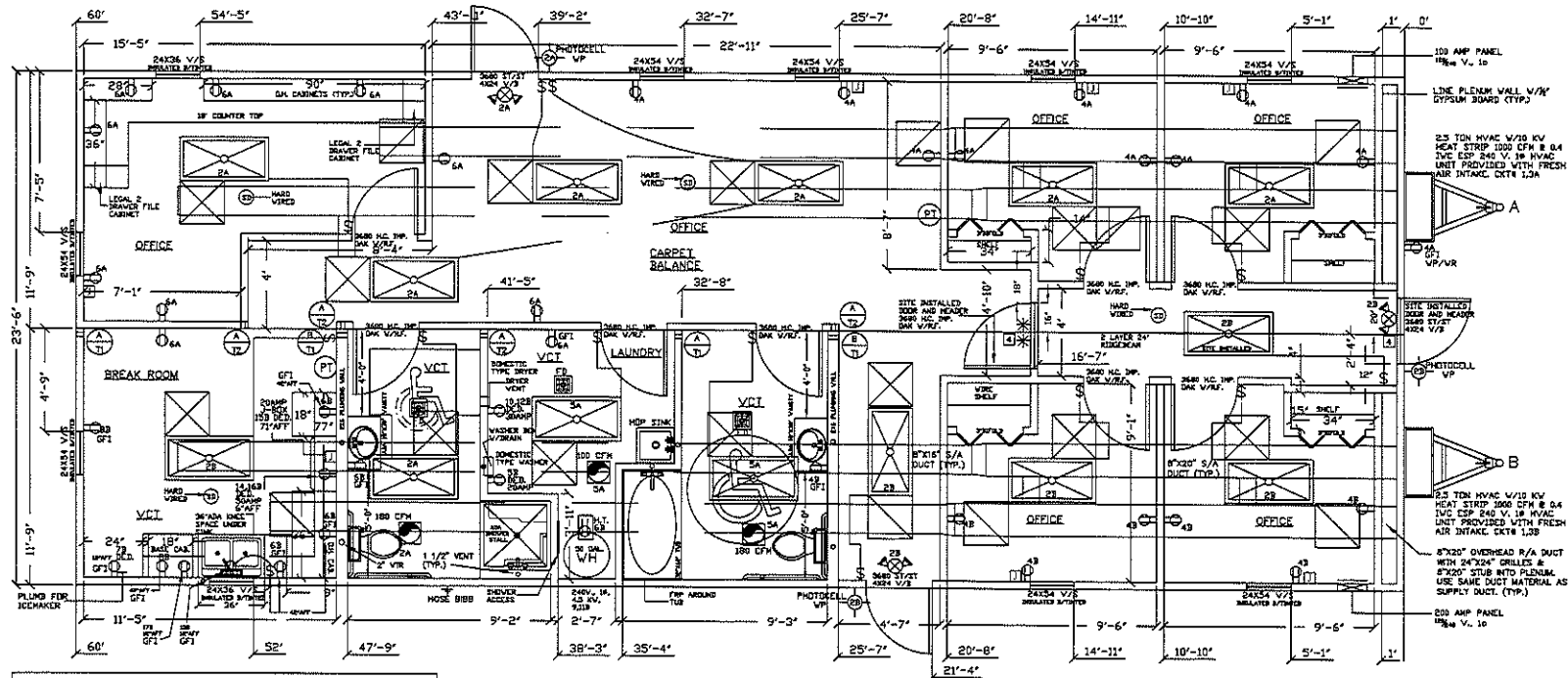
APPROVED

RADCO
Nov 02, 2012

APPROVED



DIAMOND BUILDERS, INC. 440 THOMPSON DR., DOUGLAS GEORGIA 31534 (770) 384-7080 FAX: (770) 384-5721			
DATE: 10/27/2012	SCALE: 1/8" = 1'-0"	CODES: SEE SUMMARY	REVISIONS:
LABELS: RADCO, MO	DBI 5379 A/B	24 X 60	BUSINESS
ELEVATIONS & END WALL BRACING	PLAN NO. DBI 5379	SHEET 3 OF 7	



NOTE:
THE BREAK ROOM AREA IS NOT DESIGNED FOR USE AS A COMMERCIAL FOOD SERVICE ESTABLISHMENT HOWEVER ANY APPLIANCES INSTALLED ARE SUBJECT TO THE APPLICABLE VENTILATION AND EXHAUST REQUIREMENTS OF THE APPLICABLE CODES. ANY AND ALL EXHAUST REQUIREMENTS, AS DETERMINED BY THE JURISDICTION HAVING AUTHORITY, ARE DESIGNED BY OTHERS AND SITE INSTALLED BY OTHERS AND SUBJECT TO THE APPROVAL OF THE JURISDICTION HAVING AUTHORITY.

COLUMN & COLUMN STRAPPING LEGEND

- (B) — INDICATES TYPE OF STUD
- (T2) — INDICATES TYPE OF TIE DOWN STRAP
- * — INDICATES WITH RIDGE BEAM BEARING STIFFENER (SEE RIDGE BEAM NOTES FOR SPECIFICATIONS)

COLUMN DESCRIPTIONS

A (2) 2x4 SYP #2 THIS HALF. B (2) 2x6 SYP #2 THIS HALF

- NOTES:
1. ALL COLUMN STUDS SHALL BE NAILED TOGETHER PER NDS AND FASTENED TOGETHER WITH 100% PVA GLUE COVERAGE.
 2. COLUMN STUDS SHALL NOT BE NOTCHED OR BORED.
 3. INSTALL ONE TIE DOWN STRAP FROM RIDGE BEAM TO COLUMN AND FROM COLUMN TO FLOOR RIM JOIST FOR EACH STUD OF COLUMN. (IE: 4 STUD COLUMN WILL REQUIRE 4 TIE DOWN STRAPS)
 4. STRAPS SHALL NOT BE OVERLAPPED OR DOUBLED UNLESS SPECIFIED OTHERWISE.

TIE DOWN STRAP DESCRIPTIONS

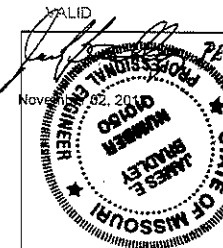
- T1 20 GA X 1-1/2" GALV. STEEL STRAP WITH (6) 0.148" X 3" NAILS EACH END. TWO 26 GA X 1-1/2" GALV. STEEL STRAPS MAY BE SUBSTITUTED FOR ONE 20 GA X 1-1/2" STRAP. NAILS MUST PENETRATE 2" MINIMUM INTO ALL MEMBERS. PENETRATION MAY BE REDUCED TO 1-1/2" IF 8 NAILS ARE USED IN LIEU OF 6. IN NO CASE SHALL SPLITTING OF WOOD BE PERMITTED.
- T2 26 GA X 1-1/2" GALV. STEEL STRAP WITH (6) 14 GA X 7/16" X 1" STAPLES EACH END. 15 GA STAPLES MAY BE USED IF QUANTITY IS INCREASED TO (7) STAPLES.

APPROVED

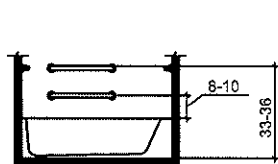
RADCO

Nov 02, 2012

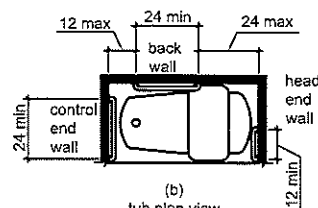
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DIAMOND BUILDERS, INC. 440 THOMPSON DR., DOUGLAS GEORGIA 3154 (912) 384-7080 FAX: (912) 384-5721		JAMES E. BRADLEY, P.E. CONSULTING ENGINEER 1765 CARNEGIE AVENUE CLEARWATER, FL 33756	
DATE: 10/27/2012	SCALE: 3/16" = 1'-0"	CODES: SEE SUMMARY	REVISIONS:
LABELS: RADCO, MO	DBI 5379 A/B	24 X 60	BUSINESS
FLOOR PLAN		PLAN NO. DBI 5379	SHEET 4 OF 7



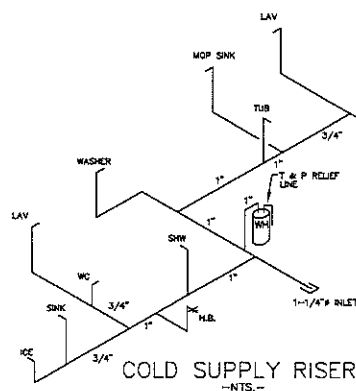
(a)
tub elevation



(b)
tub plan view

ACCESSIBILITY NOTES FOR BATHTUB:

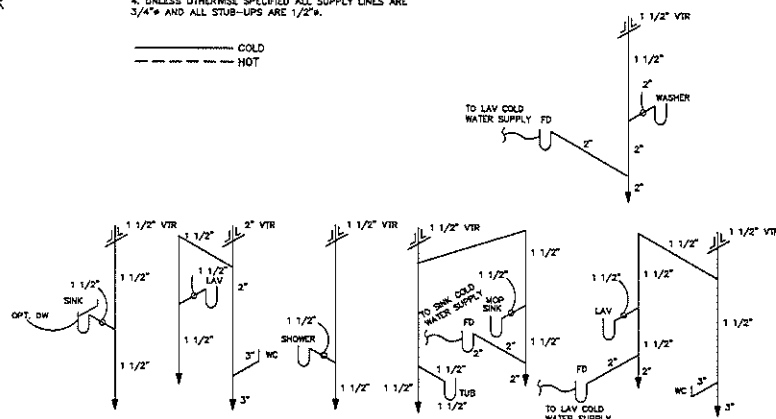
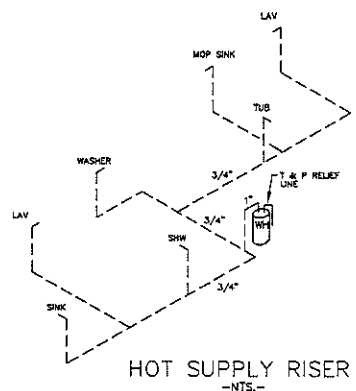
1. ACCESSIBLE BATHTUB SHALL BE EQUIPPED WITH A REMOVABLE IN-TUB SEAT. THE TOP OF THE BATHTUB SEAT SHALL BE 17 INCHES MINIMUM AND 19 INCHES MAXIMUM ABOVE THE BATHROOM FLOOR FINISH. THE SEAT DEPTH SHALL BE 15 INCHES MINIMUM AND 16 INCHES MAXIMUM. THE SEAT SHALL BE CAPABLE OF SECURE PLACEMENT.
2. BACK WALL OF BATHTUB SHALL HAVE TWO HORIZONTAL GRAB BARS, ONE SHALL BE 8 INCHES MINIMUM AND 10 INCHES MAXIMUM ABOVE THE RIM OF THE BATHTUB AND THE OTHER SHALL BE 33 INCHES MINIMUM AND 35 INCHES MAXIMUM ABOVE THE FINISH FLOOR MEASURED TO THE TOP OF THE GRIPPING SURFACE.
3. CONTROL END WALL SHALL HAVE ONE HORIZONTAL GRAB BAR 24 INCHES LONG MINIMUM INSTALLED AT THE FRONT EDGE OF THE BATHTUB.
4. HEAD END WALL SHALL HAVE ONE HORIZONTAL GRAB BAR 12 INCHES LONG INSTALLED AT THE FRONT EDGE OF THE BATHTUB.
5. CONTROLS SHALL BE BETWEEN THE BATHTUB RIM AND GRAB BAR, AND BETWEEN THE OPEN SIDE OF THE BATHTUB AND THE CENTERLINE OF THE WIDTH OF THE BATHTUB.
6. A SHOWER SPRAY UNIT WITH A HOSE AT LEAST 58 INCHES LONG THAT CAN BE USED BOTH AS A FIXED SHOWER HEAD AND AS A HAND-HELD SHOWER SHALL BE PROVIDED. SHOWER SPRAY CONTROL SHALL BE EQUIPPED WITH AN ON/OFF CONTROL WITH A NON-POSITIVE SHUT-OFF AND SHALL LIMIT TEMPERATURE TO 110°F (43°C). IF AN ADJUSTABLE HEIGHT SHOWER HEAD ON A VERTICAL BAR IS USED, THE BAR SHALL BE INSTALLED SO AS NOT TO OBSTRUCT THE USE OF THE GRAB BARS.
7. ENCLOSURE FOR BATHTUB SHALL NOT OBSTRUCT CONTROLS, FAUCETS, SHOWER AND SPRAY UNITS OR OBSTRUCT TRANSFER FROM WHEELCHAIR ONTO BATHTUB SEAT OR INTO BATHTUB. ENCLOSURE ON BATHTUB SHALL NOT HAVE TRACTS INSTALLED ON THE RIM OF THE OPEN FACE OF THE BATHTUB.



SUPPLY LINE NOTES:

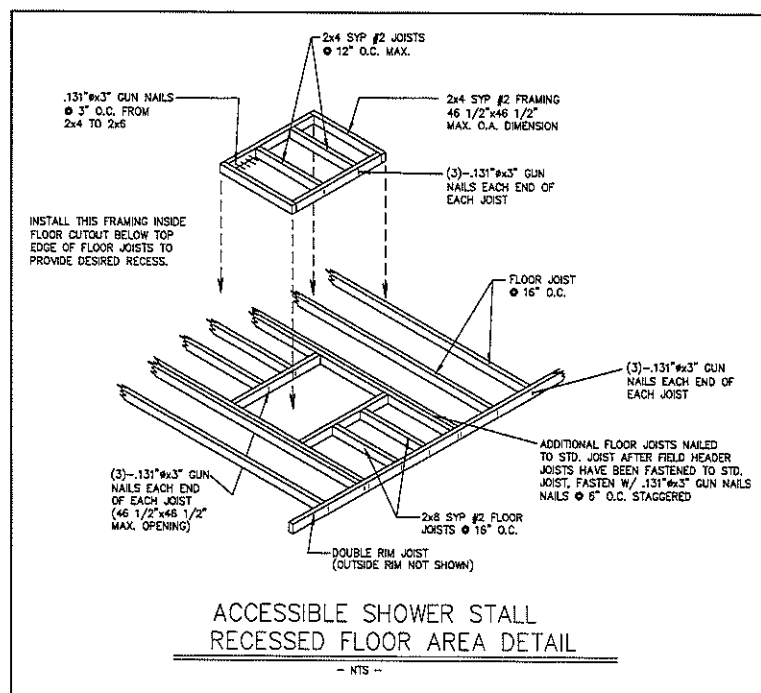
1. SUPPLY LINE SIZING IS BASED ON AN ASSUMED AVAILABLE PRESSURE OF 50 PSI TO 60 PSI AT THE LOCATION OF THE INLET(S) SHOWN AFTER ANY DEDUCTIONS FOR WATER PRESSURE REDUCING VALVES OR SPECIAL EQUIPMENT SUCH AS BACKFLOW PREVENTION, FILTER, SUTURE, ETC. THIS AVAILABLE PRESSURE MUST BE VERIFIED PRIOR TO CONSTRUCTION.
2. SUPPLY LINE INLET(S) SHOWN ON THESE PLANS ARE ASSUMED TO EXTEND ONLY TO EXTERIOR WALL. ALL SERVICE SUPPLY LINES UP TO THE INLET(S) ARE DESIGNED BY OTHERS AND SITE INSTALLED UNLESS OTHERWISE SPECIFIED.
3. SUPPLY LINE SIZING MUST BE REDESIGNED IF THE BUILDING DOES NOT COMPLY WITH ANY OF THE ABOVE ASSUMPTIONS.
4. UNLESS OTHERWISE SPECIFIED ALL SUPPLY LINES ARE 3/4" AND ALL STUB-UPS ARE 1/2".

— COLD
- - - - - HOT

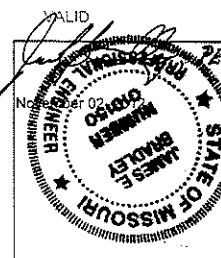


DWV RISERS -NTS.-

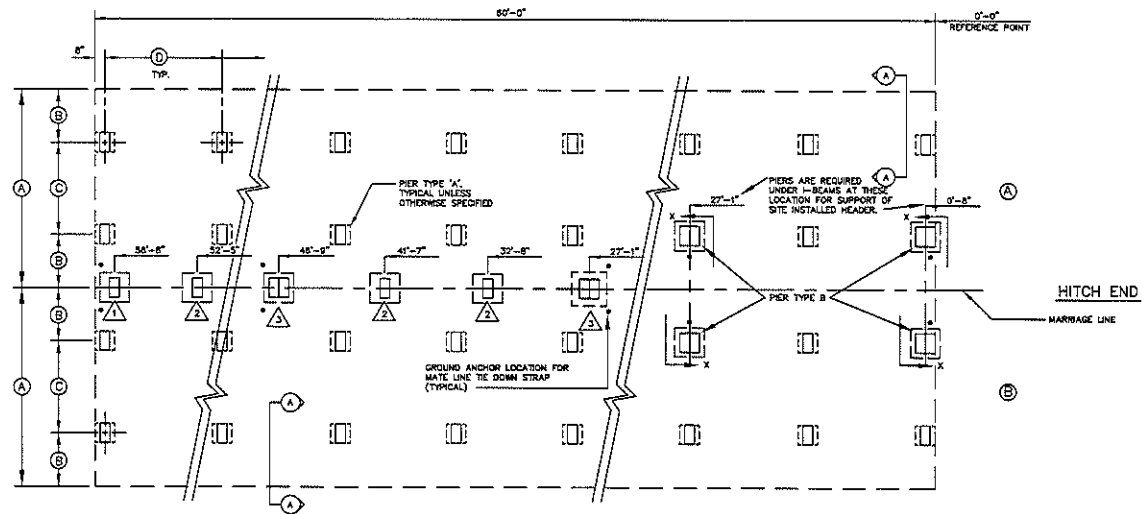
ALL P-TRAPS SHALL BE SUP JOINT
TYPE TO ALLOW DRAIN LINE CLEANDOUT.



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Nov 02, 2012
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DIAMOND BUILDERS, INC. 440 THOMPSON DR. DOUGLAS GEORGIA 3054 678234-7080 FAX: 678234-5721			
DATE: 10/27/2012	JAMES E. BRADLEY, P.E. CONSULTING ENGINEER 1785 CARNEGIE AVENUE CLEARWATER, FL 33755		
SCALE: NTS	REVISIONS:		
CODING: SEE SUMMARY	BY: JEB		
LABELS: RADCO, MO	SHEET		
DBI 5379 A/B	24 X 60	BUSINESS	5 OF 7
PLUMBING RISERS AND DETAILS			PLAN NO. DBI 5379



APPROVED **RADCO** APPROVED
Nov 02, 2012

DIAMOND BUILDERS, INC. 440 THOMSON DR., DOUGLAS GEORGIA 31534 (912)384-7080 FAX: (912)384-5721			
DATE: 10/27/2012	JAMES E. BRADLEY, P.E. CONSULTING ENGINEER 1785 CARNEGIE AVENUE CLEARWATER, FL 33758		
SCALE: NTS	REVISIONS:		
CODES: SEE SUMMARY	BY: JEB		
LABELS: RADCO, MO	SHEET		
DBI 5379 A/B	24 X 60	BUSINESS	2 OF 3
FOUNDATION PLAN		PLAN NO. DBI 5379	

ACCESS TO BUILDING FOR PERSONS IN WHEELCHAIRS IS DESIGNED BY AND FIELD BUILT BY OTHERS AND SUBJECT TO LOCAL JURISDICTION. THE PRIMARY ENTRANCE AND REQUIRED EXITS SHALL BE ACCESSIBLE. ALL BUILDING ELEMENTS AND FACILITIES SHALL BE ACCESSIBLE IN ACCORDANCE WITH THE REFERENCE ACCESSIBILITY STANDARD(S) EXCEPT WHERE SPECIFICALLY EXEMPTED BY THE SCOPING REQUIREMENTS OF THE APPLICABLE CODE.

3. THE INTERNATIONAL SYMBOL OF ACCESSIBILITY SIGN SHALL BE DISPLAYED AT ALL ACCESSIBLE RESTROOM FACILITIES AND AT ACCESSIBLE BUILDING ENTRANCES. ALL ENTRANCES TO ALL BUILDING AREAS SHALL BE ACCESSIBLE. ENTRANCES SHALL HAVE DIRECTIONAL SIGNS INDICATING THE ROUTE TO THE NEAREST ACCESSIBLE ENTRANCE. AT LEAST 50% OF ALL PUBLIC ENTRANCES SHALL BE ACCESSIBLE.

4. ACCESSIBLE DRINKING FOUNTAINS SHALL HAVE A SPOUT OUTLET HEIGHT NO HIGHER THAN 36 INCHES ABOVE THE FLOOR AND SPOUT SHALL BE LOCATED 15 INCHES MINIMUM FROM THE VERTICAL SUPPORT AND 5 INCHES MAXIMUM FROM THE FRONT EDGE OF THE UNIT, INCLUDING BUMPERS. SPOUT SHALL PROVIDE A FLOW OF WATER 4 INCHES HIGH MINIMUM. ANGLE OF WATER STREAM SHALL BE IN ACCORDANCE WITH THE APPLICABLE ACCESSIBILITY CODE. DRINKING FOUNTAINS FOR STANDING PERSONS SHALL HAVE A SPOUT OUTLET HEIGHT 38 INCHES MAXIMUM AND 43 INCHES MAXIMUM ABOVE THE FLOOR.

4. WHERE STORAGE FACILITIES SUCH AS CABINETS, SHELVES, CLOSETS, AND DRAWERS ARE PROVIDED AT LEAST ONE OF EACH TYPE PROVIDED SHALL BE ACCESSIBLE. AT LEAST ONE OF EACH TYPE PROVIDED SHALL BE ACCESSIBLE (I.E. TOUCH LATCHES, U-SHAPED PULLS); FOR AREAS WITH UNOBSTRUCTED REACH THE SPACE SHALL BE WITHIN 15 INCHES MINIMUM AND 48 INCHES MAXIMUM OF THE FLOOR; FOR HIGH FORWARD REACH AREAS WITH OBSTRUCTIONS THE CLEAR FLOOR SPACE SHALL EXTEND BEYOND THE CLEMENT FOR A DISTANCE NOT LESS THAN THE REQUIRED REACH DEPTH OVER THE OBSTACLE AND THE HEIGHT OF THE SPACE SHALL BE 48 INCHES MAXIMUM AND THE DEPTH OF THE SPACE SHALL BE 20 INCHES MAXIMUM EXCEPT THE DEPTH MAY BE 25 INCHES HIGH IF THE HEIGHT IS 44 INCHES MAXIMUM; FOR HIGH SIDE REACH AREAS WITH OBSTRUCTIONS THE HEIGHT OF THE OBSTRUCTION SHALL BE 34 INCHES MAXIMUM AND THE DEPTH OF THE OBSTRUCTION SHALL BE 24 INCHES MAXIMUM AND THE DEPTH OF THE SPACE SHALL BE 20 INCHES MINIMUM AND 27 INCHES MAXIMUM; THE MAXIMUM REACH HEIGHT IS 48 INCHES; EXCEPT THE HEIGHT OF WASHING MACHINES AND DRYERS MAY BE 36 INCHES MAXIMUM.

5. CONTROLS, DISPENSERS, RECEPTACLES AND OTHER OPERABLE EQUIPMENT SHALL BE NO HIGHER THAN THE REACH HEIGHTS SPECIFIED IN NOTE 4 ABOVE AND NO LESS THAN 15 INCHES ABOVE THE FLOOR. EXCEPTION: HEIGHT LIMITATIONS DO NOT APPLY WHERE THE USE OF SPECIAL EQUIPMENT DICTATES OTHERWISE OR WHERE ELECTRICAL RECEPTACLES ARE NOT NORMALLY INTENDED FOR USE BY BUILDING OCCUPANTS.

6. WHERE EMERGENCY WARNING SYSTEMS ARE PROVIDED, THEY SHALL INCLUDE BOTH AUDIBLE AND VISUAL ALARMS. THE VISUAL ALARMS SHALL BE LOCATED THROUGHOUT, INCLUDING RESTROOMS, AND PLACED 80 INCHES ABOVE THE FLOOR OR 6 INCHES BELOW CEILING, WHICHEVER IS LOWER.

7. DOORS TO ALL ACCESSIBLE SPACES SHALL HAVE ACCESSIBLE HARDWARE (I.E. LEVER-OPERATED, PUSH-TYPE, U-SHAPED) MOUNTED NO HIGHER THAN 48 INCHES ABOVE THE FLOOR.

8. FLOOR SURFACES SHALL BE STABLE, FIRM, AND SLIP-RESISTANT. CHANGES IN LEVEL BETWEEN 0.25 INCH AND 0.5 INCH SHALL BE BEVELED WITH A BEVEL OF AT LEAST ONE PANEL OR CHANGE IN LEVEL GREATER THAN 0.5 INCH REQUIRE RAIPS. CURET PAIL THICKNESS SHALL BE 0.5 INCH MAX. GRATING IN FLOOR SHALL BE SPACES NO GREATER THAN 0.5 INCH WIDE IN ONE DIRECTION. DOORWAY THRESHOLDS SHALL NOT EXCEED 0.5 INCH IN HEIGHT.

9. ALL DOORS SHALL BE OPERABLE BY A SINGLE EFFORT. THE MAXIMUM FORCE REQUIRED TO OPEN A DOOR SHALL NOT EXCEED 8.5 LBS. FOR EXTERIOR SWINGING DOORS AND 5 LBS. FOR ALL SLIDING, FOLDING, AND INTERIOR SWINGING DOORS.

10. DOORS AND SIDELITES ADJACENT TO DOORS CONTAINING ONE OR MORE GLAZING PANELS THAT PERMIT VIEWING THROUGH THE PANELS SHALL HAVE THE GLAZING PANELS LOCATED AT LEAST ONE PANEL ON EITHER THE DOOR OR AN ADJACENT SIDELITE 43 INCHES MAXIMUM ABOVE THE FLOOR. VISION LITES WITH THE LOWEST PART MORE THAN 66 INCHES ABOVE THE FLOOR ARE EXEMPT FROM THIS REQUIREMENT.

11. THIS BUILDING IS DESIGNED FOR USE AS A PRIVATE OFFICE WORK AREA ONLY AND IS NOT INTENDED FOR USE BY OR SERVICE TO THE GENERAL PUBLIC.

12. ACCESSIBLE WATER CLOSETS SHALL BE 17 INCHES TO 19 INCHES FROM THE FLOOR TO THE TOP OF THE SEAT. GRAB BARS SHALL BE 35 INCHES LONG MINIMUM WHEN LOCATED BEHIND WATER CLOSET AND 42 INCHES MINIMUM WHEN LOCATED ALONG SIDE OF WATER CLOSET, AND GRAB BARS SHALL BE MOUNTED AT 33 INCHES TO 38 INCHES FROM THE FLOOR TO THE CENTERLINE OF THE BAR. SIDE WALL GRAB BARS SHALL BE MOUNTED WITH THE FAR END LOCATED AT 42 INCHES TO 48 INCHES FROM THE FLOOR. GRAB BARS SHALL BE 1.5 INCHES IN DIAMETER. GRAB BARS ARE PERMITTED TO BE 24 INCHES LONG MINIMUM, CENTERED BEHIND THE WATER CLOSET, WHERE WALL SPACE DOES NOT PERMIT A GRAB BAR 36 INCHES LONG DUE TO LOCATION OF A RECESSED FIXTURE ADJACENT TO THE WATER CLOSET. THE CENTERLINE OF WATER CLOSETS SHALL BE 16 INCHES MINIMUM AND 18 INCHES MAXIMUM FROM THE SIDE WALL OR PARTITION. THE CENTERLINE OF WATER CLOSETS SHALL BE 7 INCHES MINIMUM AND 18 INCHES MAXIMUM FROM THE SIDE WALL OR PARTITION IN ADJUTORY ACCESSIBLE TOILET COMPARTMENTS.

13. IF 03 OR 09 ANSI A117.1 IS SHOWN UNDER ACCESSIBILITY IN THE CODE SUMMARY, A VERTICAL GRAB BAR 18 INCHES MINIMUM IN LENGTH SHALL BE LOCATED ON THE SIDE WALL ADJACENT TO THE WATER CLOSET DIRECTLY ABOVE THE 42 INCH LONG HORIZONTAL GRAB BAR. THE VERTICAL BAR SHALL BE 18 INCHES IN DEPTH AT 27 INCHES ABOVE THE FLOOR. BETWEEN 9 INCHES AND 27 INCHES ABOVE THE FLOOR, KNEE CLEARANCE SHALL BE PERMITTED TO BE REDUCED AT A RATE OF 1 INCH IN DEPTH FOR EACH 6 INCHES IN HEIGHT.

14. ACCESSIBLE URINALS SHALL BE STALL-TYPE OR HUNG WITH ELONGATED RIMS AT A MAXIMUM OF 17 INCHES ABOVE THE FLOOR AND 13.5 INCHES FROM THE WALL.

15. ACCESSIBLE LAVATORIES AND SINKS SHALL BE MOUNTED WITH THE RIM NO HIGHER THAN 34 INCHES ABOVE THE FLOOR AND A CLEARANCE OF AT LEAST 27 INCHES HIGH AND 30 INCHES WIDE. KNEE CLEARANCE SHALL BE 11 INCHES MINIMUM IN DEPTH AT 9 INCHES ABOVE THE FLOOR, AND 8 INCHES MINIMUM IN DEPTH AT 27 INCHES ABOVE THE FLOOR. BETWEEN 9 INCHES AND 27 INCHES ABOVE THE FLOOR, KNEE CLEARANCE SHALL BE PERMITTED TO BE REDUCED AT A RATE OF 1 INCH IN DEPTH FOR EACH 6 INCHES IN HEIGHT.

16. HOT WATER AND DRAIN PIPES UNDER ACCESSIBLE LAVATORIES AND SINKS SHALL BE INSULATED OR OTHERWISE CONFIGURED TO PROTECT AGAINST CONTACT. INSULATION OR PROTECTION MATERIALS MAY BE SITE INSTALLED. THERE SHALL BE NO SHARP OR ABRASIVE SURFACES UNDER ACCESSIBLE LAVATORIES AND SINKS.

17. ACCESSIBLE LAVATORIES AND SINKS SHALL HAVE ACCESSIBLE FAUCETS (I.E. LEVER-OPERATED, PUSH-TYPE, ELECTRONICALLY CONTROLLED).

18. WHERE MIRRORS ARE LOCATED ABOVE LAVATORIES, A MIRROR SHALL BE LOCATED OVER THE ACCESSIBLE LAVATORY AND SHALL BE MOUNTED WITH THE BOTTOM EDGE OF THE REFLECTING SURFACE 40 INCHES MAXIMUM ABOVE THE FLOOR. WHERE MIRRORS ARE LOCATED ABOVE COUNTERS THAT DO NOT CONTAIN LAVATORIES, THE MIRROR SHALL BE MOUNTED WITH THE BOTTOM EDGE OF THE REFLECTING SURFACE 40 INCHES MAXIMUM ABOVE THE FLOOR.

19. GRAB BARS REQUIRED FOR ACCESSIBILITY SHALL BE 1.25 INCH TO 2 INCHES IN DIAMETER WITH 1.5 INCHES OF CLEAR SPACE BETWEEN THE BAR AND THE WALL.

20. TOILET PAPER DISPENSERS SHALL BE INSTALLED 7 INCHES MINIMUM AND 9 INCHES MAXIMUM IN FRONT OF THE WATER CLOSET MEASURED TO THE TOP OF THE OUTLET OF THE DISPENSER. THE OUTLET OF THE DISPENSER SHALL BE 15 INCHES MINIMUM AND 18 INCHES MAXIMUM ABOVE THE FLOOR. THE BAR AND SPOUT SHALL NOT BE LOCATED BEHIND GRAB BARS. WHERE DISPENSER IS LOCATED ABOVE THE GRAB BAR, THE OUTLET OF THE DISPENSER SHALL BE LOCATED WITHIN AN AREA 24 INCHES MINIMUM AND 36 INCHES MAXIMUM FROM THE REAR WALL AND THE DISPENSER SHALL BE 12 INCHES CLEAR FROM THE TOP OF THE REAR WALL AND 18 INCHES MINIMUM AND 24 INCHES MAXIMUM FROM THE FRONT OF THE REAR WALL. THE DISPENSER SHALL BE 18 INCHES MINIMUM AND 24 INCHES MINIMUM AND 42 INCHES MAXIMUM FROM THE REAR WALL AND THE DISPENSER SHALL BE 1.5 INCHES CLEAR FROM THE BOTTOM OF THE GRAB BAR. DISPENSERS THAT CONTROL DELIVERY, OR THAT DO NOT PERMIT CONTINUOUS FLOW, SHALL NOT BE USED.

21. WATER CLOSET FLUSH CONTROL SHALL BE MOUNTED ON THE WIDE SIDE OF THE TOILET AREA.

22. A TOWEL DISPENSER SHALL BE LOCATED ADJACENT TO ALL ACCESSIBLE LAVATORIES.

23. THE SHOWER SEAT SHALL BE MOUNTED 17 INCHES TO 19 INCHES FROM THE BATHROOM FLOOR AND SHALL EXTEND THE FULL DEPTH OF THE STALL.

24. A SHOWER SPRAY UNIT WITH A HOSE AT LEAST 60 INCHES LONG THAT CAN BE USED BOTH AS A FIXED SHOWER HEAD AND AS A HAND-HELD SHOWER SHALL BE PROVIDED. SHOWER SPRAY CONTROL SHALL BE EQUIPPED WITH AN ON/OFF SWITCH AND SHALL LIMIT TEMPERATURE TO 110°F (43°C).

25. CURBS IN SHOWER STALLS BE NO HIGHER THAN 1/2 INCH.

26. ENCLOSURES FOR SHOWER STALLS SHALL NOT OBSTRUCT CONTROLS OR OBSTRUCT TRANSFER FROM WHEELCHAIRS INTO SHOWER SEATS.

27. WHERE 3 OR FEWER WASHING MACHINES ARE PROVIDED, AT LEAST ONE SHALL BE ACCESSIBLE. WHERE MORE THAN 3 WASHING MACHINES ARE PROVIDED, AT LEAST TWO SHALL BE ACCESSIBLE. WHERE 3 OR FEWER DRYERS ARE PROVIDED, AT LEAST ONE SHALL BE ACCESSIBLE. WHERE MORE THAN 3 DRYERS ARE PROVIDED, AT LEAST TWO SHALL BE ACCESSIBLE. TOP LOADING MACHINES SHALL HAVE DOOR TO LAUNDRY COMPARTMENT LOCATED 36 INCHES MINIMUM AND 48 INCHES MAXIMUM FROM THE FLOOR. FRONT LOADING MACHINES SHALL HAVE DOOR TO THE LAUNDRY COMPARTMENT LOCATED 15 INCHES MINIMUM AND 36 INCHES MAXIMUM ABOVE THE FLOOR. OPERABLE PARTS SHALL BE OPERABLE WITH ONE HAND AND SHALL NOT REQUIRE THE USE OF BOTH HANDS. OPERABLE PARTS SHALL BE LOCATED WITHIN THE REACHING RANGE SPECIFIED ABOVE.

1. ALL CONSTRUCTION, MATERIALS, AND INSTALLATION SHALL BE IN ACCORDANCE WITH THE CODES SPECIFIED ON THESE DRAWINGS.
2. THESE PLANS INCLUDE DESIGN FOR THE FACTORY BUILT PORTION OF THE MODULAR STRUCTURE AND PORTIONS OF THE SITE BUILT CONSTRUCTION. THESE PLANS AND DESIGN PLANS FOR ALL ELEMENTS DESIGNATED TO BE DESIGNED BY THE ARCHITECT/OWNER OR SITE BUILT PORTION ARE TO BE SUBMITTED TO AND REVIEWED BY THE DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE (DESIGNER OF RECORD) FOR COMPATIBILITY WITH THE DESIGN OF THE OVERALL BUILDING PROJECT AS REQUIRED BY THE APPLICABLE CODES AND LAWS.
3. ALL PARTIES RESPONSIBLE FOR DESIGN WORK SHALL BE QUALIFIED AND LICENSED AND SHALL BE REQUIRED TO OBTAIN NECESSARY AUTHORITY OR SHALL RETAIN SUCH QUALIFIED AND LICENSED ENGINEERS TO PERFORM SUCH WORK.
4. TRANSPORTATION AND ERECTION OF THIS BUILDING IS DESIGNED BY OTHERS. ANY TRANSPORTATION AND/OR LIFTING ELEMENTS SHOWN IN THESE PLANS MUST BE EVALUATED BY TRANSPORTATION AND ERECTION DESIGNER FOR SUITABILITY.
5. REFER TO MANUFACTURER'S APPROVED SYSTEMS PACKAGE FOR ADDITIONAL CONSTRUCTION DETAILS AND SPECIFICATIONS NOT INCLUDED IN THESE PLANS.
6. REFER TO ATTACHED ENERGY CODE COMPLIANCE FORM AND/OR HEAT LOSS AND GAIN CALCULATIONS FOR ADDITIONAL, ENERGY CODE CONSTRUCTION REQUIREMENTS NOT INCLUDED IN THESE PLANS.
7. ALL DOORS SHALL BE OPENABLE FROM THE EGRESS SIDE WITHOUT THE USE OF TOOLS. SUCH OPENING SHALL BE BY EITHER A MANUALLY OPERATED FLUSH BOLT OR SURFACE BOLT, SHALL NOT BE REQUIRED.
8. WHEN NOT SHOWN ON THE PLANS PROVISIONS FOR EXIT DISCHARGE LIGHTING (INCLUDING DUAL ELEMENT EXIT DISCHARGE EMERGENCY LIGHTING) ARE DESIGNED BY OTHERS AND THE RESPONSIBILITY OF THE BUILDING OWNER AND SUBJECT TO LOCAL JURISDICTION APPROVAL.
9. PORTABLE FIRE EXTINGUISHERS SHALL BE PROVIDED BY OTHERS AS REQUIRED BY THE IFC.
10. ALL GLAZING WITHIN A 24 INCH ARC OF DOORS WHOSE BOTTOM EDGE IS LESS THAN 48 INCHES ABOVE THE FLOOR AND ALL GLAZING IN DOORS SHALL BE SAFETY, TEMPERED, OR ACRYLIC PLASTIC SHEET.
11. DOORS THAT OPEN INTO THE PATH OF EGRESS TRAVEL SHALL PARTIALLY OR FULLY OPEN IN SUCH A MANNER THAT THE CODE REQUIRED PATH OF EGRESS WIDTH IS NOT REDUCED TO LESS THAN ONE-HALF DURING THE COURSE OF THE TRAVEL OF THE DOOR. THE DOOR SHALL NOT PROJECT MORE THAN TWO INCHES INTO THE CODE REQUIRED WIDTH.

- NOTE THAT THIS LIST DOES NOT NECESSARILY LIMIT THE ITEMS OF WORK AND MATERIALS THAT MAY BE REQUIRED FOR A COMPLETE INSTALLATION. ALL SITE RELATED ITEMS ARE SUBJECT TO LOCAL JURISDICTION APPROVAL.
1. THE COMPLETE FOUNDATION SUPPORT AND THE DOWN SYSTEM.
2. RAMPS, STAIRS AND GENERAL ACCESS TO THE BUILDING.
3. PORTABLE FIRE EXTINGUISHER(S).
4. BUILDING DRAINS, CLEANOUTS, AND HOOK-UP TO THE PLUMBING SYSTEM.
5. ELECTRICAL SERVICE HOOK-UP (INCLUDING FEEDERS) TO THE BUILDING.
6. THE MAIN ELECTRICAL PANEL AND SUB-FEEDERS.
7. CONNECTIONS OF ELECTRICAL CIRCUITS CROSSING OVER MODULE MATEMENT LINE(S) - (MULTI-UNITS ONLY).
8. DIAL ELEMENT EXTERIOR EXIT DISCHARGE LIGHTING WHEN NOT SHOWN ON PLANS.
9. STRUCTURAL AND AESTHETIC INTERCONNECTIONS BETWEEN MODULES (MULTI-UNITS ONLY).
10. EXTERIOR GLAZING PROTECTION.
11. GUTTERS & DOWN SPOUTS WHEN REQUIRED.
12. WATER HEATER THERMAL EXPANSION DEVICE WHEN REQUIRED.
13. PROGRAMMABLE THERMOSTATS IF NOT INSTALLED AT FACTORY.
14. DRINKING FOUNTAIN & SERVICE SINK WHEN NOT SHOWN ON FLOOR PLAN.
15. ALL SIGNS UNLESS OTHERWISE SPECIFIED.
16. ANY AIR GAPS BETWEEN MODULES AT FLOOR AND CEILING LINE AND OTHER PENETRATIONS THROUGH THE BUILDING ENVELOPE SHALL BE CAULKED, GASKETED, WEATHER-STRIPPED, WEDGED OR OTHERWISE SEALED TO LIMIT UNCONTROLLED AIR MOVEMENT.

1. CONSTRUCTION IS TYPE V-B.

2. OCCUPANCY IS BUSINESS.

3. MEANS OF EGRESS IS DESIGNED FOR AN OCCUPANT LOAD OF 1 PERSON PER 100 SQUARE FEET OF GROSS FLOOR AREA. 15 TOTAL OCCUPANTS.

4. FIRE RATING OF EXTERIOR WALLS IS 0 HOURS.

5. THIS BUILDING REQUIRES A FIRE SEPARATION DISTANCE OF 10 FEET OR MORE IN ACCORDANCE WITH TABLE 902 OF THE IBC AND IS SUBJECT TO LOCAL JURISDICTION APPROVAL.

MISSOURI

STRUCTURAL LOAD LIMITATIONS:

FLOOR LIVE LOAD: 100 PSF LOBBIES & CORRIDORS, 50 PSF ELSEWHERE.
 B. 2000# CONCENTRATED LOAD OVER 30 INCH X 30 INCH AREA LOCATED ANYWHERE ON FLOOR.
 ROOF LIVE LOAD:
 A. 20 PSF.
 ROOF SNOW LOAD:
 B. GROUND SNOW LOAD:
 B. FLAT-ROOF SNOW LOAD:
 C. SNOW EXPOSURE FACTOR:
 C. SNOW IMPORTANCE FACTOR:
 C. SNOW THERMAL FACTOR:
 C. SNOW THERMAL FACTOR:
 F. ROOF SLOPE FACTOR:
 G. GRADED ROOF SNOW LOAD:
 H. DESIGN IS BASED ON FULL OR PARTIALLY EXPOSED ROOF PER ASCE 7-05.

Pp = 20 PSF Pf = 20 PSF Cs = 1.0 Cs = 1.0 Cs = 1.1 Cs = 1.0 Cs = 1.0 Ps = Pf X Cs	Wp = 1.0 Exp. = 0 Gsfp = 0.18 Gsfp = 0.7 DEG.; WALL ZONE 5 = +/-49.3 PSF WALL ZONE 4 = +/-40.0 PSF ROOF ZONE 3 = +/-30.0 PSF ROOF ZONE 2 = +/-17.5 PSF ROOF ZONE 1 = -38.8 PSF
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THIS BUILDING IS NOT DESIGNED FOR PLACEMENT ON THE UPPER HALF OF WALL OR CORNER EXCEEDING 15 FEET IN HEIGHT.
 G. BUILDING CATEGORY IS B PER ASCE 7-05.
 H. BUILDING DESIGN IS BASED ON "ENCLOSED" CLASSIFICATION.
 I. DESIGN WIND SPEED SHALL NOT EXCEED 15 FEET.

SEISMIC LOAD:
 A. SEISMIC IMPORTANCE FACTOR IS 1.0
 B. SEISMIC OCCUPANCY CATEGORY IS I.
 C. SEISMIC SITE CLASS IS D.
 D. SPECTRAL RESPONSE COEFFICIENTS:
 $S_s = 0.52$ $S_1 = 0.12$
 $S_2 = 0.49$ $S_3 = 0.19$
 E. SEISMIC DESIGN CATEGORY IS A13.
 F. SEISMIC FORCE RESISTING SYSTEM IS A13.
 G. SEISMIC ANALYSIS PROCEDURE HAS BEEN USED.
 H. RESPONSE MODIFICATION FACTOR R = 6.5.
 I. SEISMIC RESPONSE COEFFICIENT $C_s = N/A$.
 J. DESIGN BASE SHEAR $V = 3200k$

FLOOD LOAD:
 THIS BUILDING IS NOT DESIGNED TO BE LOCATED IN A FLOOD HAZARD AREA.

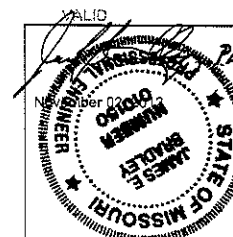
3680 = 36 INCHES X 80 INCHES (TYPICAL)
VS = VERTICAL SLIDER, SINGLE OR DOUBLE HUNG
ST/ST = STEEL INSULATED DOOR
V/B = VIEW BLOCK

FOR FOUNDATION DESIGN REFER TO THE ATTACHED FOUNDATION PLANS PREPARED BY THE BUILDING DESIGNER. IF FOUNDATION PLANS ARE DESIGNED BY OTHERS, THE BUILDING DESIGNER SHALL NOT BE HELD RESPONSIBLE OR LIABLE FOR THE FOUNDATION DESIGN & THE CONSEQUENTIAL PERFORMANCE OF THE SUPERSTRUCTURE'S STRUCTURAL COMPONENTS AND SYSTEMS RELATING THERETO.

CODE SUMMARY:						
STATE	BUILDING	ELECTRICAL	MECHANICAL	PLUMBING	ACCESSIBILITY	ENERGY
MISSOURI	2008 IBC	2008 NEC	2009 IMC	2009 IPC	2010 ADA, 03 ANSI A117.1	2009 IECC

APPROVED
RADCO
Nov 02, 2012

SHEET	DESCRIPTION
1 OF 7	COVER SHEET
2 OF 7	NOTES
3 OF 7	ELEVATIONS & END WALL BRACING
4 OF 7	FLOOR PLAN
5 OF 7	PLUMBING RISERS
6 OF 7	CROSS SECTION
7 OF 7	SITE HEADER DETAILS
1 OF 3	FOUNDATION NOTES
2 OF 3	FOUNDATION PLAN
3 OF 3	LONGITUDINAL TIE DOWN



DATE: 10/27/2012		JAMES E. BRADLEY, P.E. CONSULTING ENGINEER 1785 CARNegie AVENUE CLEARWATER, FL 33755	
SCALE : NTS		REVISiONS:	
CODES: SEE SUMMARY		BY: JEB	
LABELS: RADCO, MO		SHEET	
DB: 5379 A/B 24 x 50 BUSINESS		1 OF	
BUILDING DESTINATION: POTOSI, MO		PLAN NO. PSI 1079	
COVER SHEET			

ELECTRICAL NOTES:

- ALL EQUIPMENT SHALL BE LISTED BY UL FOR THE APPLICATION FOR WHICH IT IS USED AND ALL EQUIPMENT SHALL BE INSTALLED IN ACCORDANCE WITH THE LISTING.
- ALL CIRCUITS AND EQUIPMENT SHALL BE GROUNDED IN ACCORDANCE WITH THE APPROPRIATE ARTICLES OF THE NATIONAL ELECTRICAL CODE (NEC). ALL EQUIPMENT SHALL BE LISTED AND IDENTIFIED FOR USE WITH 75°C OR 90°C CONDUCTORS UNLESS OTHERWISE SPECIFIED.
- WHEN LIGHT FIXTURES ARE INSTALLED IN CLOSETS THEY SHALL BE SURFACE MOUNTED OR RECESSED. INCANDESCENT FIXTURES SHALL HAVE COMPLETELY ENCLOSED LAMPS. SURFACE MOUNTED INCANDESCENT FIXTURES SHALL HAVE A MINIMUM CLEARANCE OF 12 INCHES AND ALL OTHER FIXTURES SHALL BE A MINIMUM CLEARANCE OF 6 INCHES FROM "STORAGE AREA" AS DEFINED BY NEC 410-8(c).
- WHEN WATER HEATERS ARE INSTALLED THEY SHALL BE PROVIDED WITH READILY ACCESSIBLE DISCONNECTS ADJACENT TO THE WATER HEATERS SERVED. THE BRANCH CIRCUIT SWITCH OR CIRCUIT BREAKER SHALL BE PERMITTED TO SERVE AS THE DISCONNECTING MEANS ONLY WHERE THE SWITCH OR CIRCUIT BREAKER IS WITHIN SIGHT FROM THE WATER HEATER OR IS CAPABLE OF BEING LOCKED IN THE OPEN POSITION.
- HVAC EQUIPMENT SHALL BE PROVIDED WITH READILY ACCESSIBLE DISCONNECTS ADJACENT TO THE EQUIPMENT SERVED. A UNIT SWITCH WITH A MARKED "OFF" POSITION THAT IS A PART OF THE HVAC EQUIPMENT AND DISCONNECTS ALL UNGROUNDED CONDUCTORS SHALL BE PERMITTED AS THE DISCONNECTING MEANS WHERE OTHER DISCONNECTING MEANS ARE ALSO PROVIDED BY A READILY ACCESSIBLE CIRCUIT BREAKER.
- PRIOR TO ENERGIZING THE ELECTRICAL SYSTEM THE INTERRUPTING RATING OF THE MAIN BREAKER MUST BE DESIGNED AND VERIFIED AS BEING IN COMPLIANCE WITH SECTION 110-9 OF THE NEC BY LOCAL ELECTRICAL CONSULTANT.
- THE MAIN ELECTRICAL PANEL AND FEEDERS ARE DESIGNED BY OTHERS, SITE INSTALLED AND SUBJECT TO LOCAL JURISDICTION APPROVAL.
- ALL CIRCUITS CROSSING OVER MODULE MATING LINE(S) SHALL BE SITE CONNECTED WITH APPROVED ACCESSIBLE JUNCTION BOXES OR GASKET CONNECTORS.
- FIRE ALARM PULL STATION OPERABLE DEVICE SHALL BE LOCATED 42 TO 48 INCHES ABOVE THE FLOOR. FIRE ALARM HORN/STROBE DEVICE SHALL BE WALL MOUNTED WITH THE BOTTOM EDGE 80 INCHES ABOVE THE FLOOR.
- ALL RECEPTACLES INSTALLED IN WET LOCATIONS (EXTERIOR) SHALL HAVE WEATHER PROOF (WP) ENCLOSURES, THE INTEGRITY OF WHICH IS NOT AFFECTED WHEN AN ATTACHMENT PLUG CAP IS INSERTED OR REMOVED. IN ADDITION NONLOCKING RECEPTACLES SHALL BE LISTED WEATHER-RESISTANT TYPE WHEN COMPLIANCE WITH THE 2011 NEC IS REQUIRED (SEE CODE SUMMARY ON COVER SHEET).
- ALL EXTERIOR LIGHTS SHALL BE EQUIPPED WITH PHOTOCELLS FOR AUTOMATIC SHUT-OFF WHEN DAYLIGHT IS AVAILABLE.
- EMERGENCY LIGHTING SHALL BE CAPABLE OF PROVIDING INITIAL ILLUMINATION THAT IS AT LEAST AN AVERAGE OF 1 FOOT-CANDLE (fc) AND A MINIMUM OF 0.1 fc MEASURED ALONG THE PATH OF EGRESS AT THE FLOOR LEVEL. ILLUMINATION LEVELS SHALL BE PERMITTED TO DECLINE TO 0.8 fc AVERAGE AND A MINIMUM AT ANY POINT OF 0.05 fc AT THE END OF THE EMERGENCY LIGHT TIME DURATION. A MAXIMUM-TO-MINIMUM ILLUMINATION UNIFORMITY RATIO OF 40 TO 1 SHALL NOT BE EXCEEDED. THE EMERGENCY POWER SYSTEM SHALL PROVIDE POWER FOR A DURATION OF NOT LESS THAN 90 MINUTES.
- WHEN A SINGLE RECEPTACLE IS INSTALLED ON AN INDIVIDUAL BRANCH CIRCUIT THE RECEPTACLE SHALL HAVE AN AMPERE RATING NOT LESS THAN THAT OF THE BRANCH CIRCUIT.
- ELECTRICAL PANELS SHALL BE EQUIPPED WITH A MAIN BREAKER OF THE SAME SIZE AS THE PANEL UNLESS OTHERWISE SPECIFIED.
- WIRING ABOVE T-GRID CEILINGS SHALL BE AC CABLE, MC CABLE OR RUN IN EMT CONDUIT.

PLUMBING NOTES:

- WHEN REQUIRED RESTROOM FACILITIES ARE NOT PROVIDED WITHIN THE BUILDING THEY SHALL BE LOCATED IN AN ADJACENT BUILDING OR SITE INSTALLED AND ARE SUBJECT TO THE APPROVAL AND INSPECTION BY THE JURISDICTION HAVING AUTHORITY. ALL SITE INSTALLED FACILITIES ARE DESIGNED BY OTHERS. THIS SHALL BE NOTED ON THE BUILDING DATA PLATE.
- BUILDING OWNER ASSUMES ALL RESPONSIBILITY FOR DRINKING WATER FACILITIES, SERVICE SINK AND ALL OTHER REQUIRED PLUMBING FACILITIES NOT SHOWN ON FLOOR PLAN. ALL BUILDING OWNER PROVIDED FACILITIES ARE DESIGNED BY OTHERS.
- TOILETS SHALL BE ELONGATED WITH NONABSORBENT OPEN FRONT SEATS.
- RESTROOM WALLS SHALL BE COVERED WITH NONABSORBENT MATERIAL TO A MINIMUM HEIGHT OF 48 INCHES A.F.F. (70 INCHES MINIMUM IN SHOWERS). TOILET, BATHING AND SHOWER ROOM FLOORS SHALL HAVE A SMOOTH, HARD, NONABSORBENT SURFACE THAT EXTENDS UPWARD ONTO THE WALLS AT LEAST 4 INCHES.
- ALL PLUMBING FIXTURES SHALL HAVE SEPARATE SHUTOFF VALVES.
- WATER HEATER SHALL HAVE A T & P RELIEF VALVE WITH DRAIN TO EXTERIOR, AND A SHUTOFF VALVE WITHIN 3 FEET OR THE COLD WATER SUPPLY LINE.
- DHW SYSTEM SHALL BE EITHER ABS OR PVC - DWV.
- WATER SUPPLY LINES SHALL BE CPVC OR COPPER.
- ALL PIPE HANGERS SHALL BE NON-METALLIC OR OF THE SAME METAL AS THE PIPE BEING SUPPORTED. ALL SUPPORTS FOR PLASTIC PIPES SHALL PERMIT FREE MOVEMENT AND/OR THERMAL EXPANSION OF THE PIPE. PIPING SUPPORTS SHALL BE SPACED IN ACCORDANCE WITH THE APPLICABLE PLUMBING CODE AND MANUFACTURER'S INSTALLATION INSTRUCTIONS.
- WATER PIPES INSTALLED IN A WALL EXPOSED TO THE EXTERIOR SHALL BE LOCATED ON THE HEATED SIDE OF THE WALL INSULATION. WATER PIPING INSTALLED IN AN UNCONDITIONED ATTIC SHALL BE INSULATED WITH AN INSULATION OF R-8.5 MINIMUM. WHERE SUBJECT TO TEMPERATURES LESS THAN 32° F. WATER, SOIL OR WASTE PIPES SHALL BE INSULATED WITH AN INSULATION OF R-8.5 MINIMUM.
- WATER CLOSETS ARE TANK TYPE AND URINALS ARE FLUSH TANK TYPE UNLESS OTHERWISE SPECIFIED.
- BUILDING DRAIN AND CLEANOUTS ARE DESIGNED AND SITE INSTALLED BY OTHERS, SUBJECT TO LOCAL JURISDICTION APPROVAL.
- THERMAL EXPANSION DEVICE, IF REQUIRED BY WATER HEATER INSTALLED, AND IF NOT SHOWN ON PLUMBING PLAN, IS DESIGNED AND SITE INSTALLED BY OTHERS, SUBJECT TO LOCAL APPROVAL.
- WATER HEATER STORAGE TANKS SHALL HAVE THE FIRST 8 FEET OF OUTLET PIPING AND THE INLET PIPE BETWEEN THE TANK AND THE HEAT TRAP COVERED WITH 1 INCH THICK INSULATION FOR PIPE DIAMETERS OF 2 INCH OR LESS, AND 1.5 INCH THICK INSULATION FOR PIPE DIAMETERS GREATER THAN 2 INCH.
- A WATER-HAMMER ARRESTOR SHALL BE INSTALLED WHERE QUICK-CLOSING VALVES ARE UTILIZED, UNLESS OTHERWISE APPROVED. WATER-HAMMER ARRESTORS SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S SPECIFICATIONS. WATER-HAMMER ARRESTORS SHALL CONFORM TO ASSE 1010.
- SHOWERS SHALL BE CONTROLLED BY AN APPROVED MIXING VALVE WITH A MAXIMUM WATER OUTLET TEMPERATURE OF 110°F (43°C).

MECHANICAL NOTES:

- ALL SUPPLY AIR REGISTERS SHALL BE 24 INCHES X 24 INCHES ADJUSTABLE WITH 8 INCHES X 20 INCHES (INSIDE) OVERHEAD FIBERGLASS MAIN DUCT, AND 8 INCH X 18 INCH (INSIDE) OVERHEAD FIBERGLASS STEP DOWN MAIN DUCT. DUCTS LOCATED OUTSIDE THE BUILDING ENVELOPE INCLUDING ATTIC DUCTS LOCATED ABOVE CEILING INSULATION SHALL HAVE R-8 MINIMUM INSULATION VALUE. DUCTS LOCATED IN UNCONDITIONED SPACES, INCLUDING ATTIC DUCTS LOCATED BELOW CEILING OR ROOF INSULATION SHALL HAVE R-8 MINIMUM INSULATION VALUE. AT T-GRID CEILINGS THE FLEX DUCT FROM MAIN SUPPLY AIR DUCT TO SUPPLY AIR REGISTERS SHALL BE 8" (INSIDE) AND THE FLEX DUCT FROM MAIN RETURN AIR DUCT TO RETURN AIR REGISTERS SHALL BE 10" (INSIDE) UNLESS OTHERWISE SPECIFIED.
- FIBERGLASS DUCTS SHALL BE CONSTRUCTED WITH CLASS 0 OR CLASS 1 DUCT MATERIAL IN ACCORDANCE WITH UL 181. FIBERGLASS DUCT CONSTRUCTION AND INSTALLATION SHALL CONFORM TO THE SMACNA FIBROUS GLASS DUCT CONSTRUCTION STANDARDS OR MANA FIBROUS GLASS DUCT CONSTRUCTION STANDARDS. METAL DUCTS SHALL BE CONSTRUCTED AS SPECIFIED IN THE SMACNA HVAC DUCT CONSTRUCTION STANDARDS - METAL AND FLEXIBLE. FLEXIBLE AIR DUCTS, BOTH FIBERGLASS AND METAL, SHALL BE TESTED IN ACCORDANCE WITH UL 181 AND SHALL BE LISTED AND LABELED AS CLASS 0 OR CLASS 1 FLEXIBLE AIR DUCT. ALL DUCTS SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S INSTALLATION INSTRUCTIONS.
- INTERIOR DOORS SHALL BE UNDERCUT 1.5 INCHES ABOVE FINISHED FLOOR FOR AIR RETURN AND OR AS NOTED ON FLOOR PLAN, EXCEPT DOORS LOCATED IN FIRE RATED PARTITIONS SHALL NOT BE UNDERCUT.
- RESTROOM VENT FANS SHALL PROVIDE 75 CFM OR MORE EXHAUST PER WATER CLOSET OR URINAL UNLESS OTHERWISE SPECIFIED ON PLANS.
- VENT FANS SHALL BE DUCTED TO THE EXTERIOR AND TERMINATE AT AN APPROVED VENT CAP.
- HVAC EQUIPMENT SHALL BE EQUIPPED WITH OUTSIDE FRESH AIR INTAKES CAPABLE OF PROVIDING 250 CFM FOR EACH UNIT.
- HVAC SYSTEM SHALL COMPLY WITH NFPA 90B.
- THERMOSTATS SHALL BE PROGRAMMABLE AS REQUIRED BY THE APPLICABLE ENERGY CODE. IF PROGRAMMABLE THERMOSTATS ARE NOT INSTALLED IN THE FACTORY THEY SHALL BE PROVIDED BY THE BUILDING OWNER AND SITE INSTALLED BY OTHERS.

CLOTHES DRYER EXHAUST NOTES:

- CLOTHES DRYER IS ASSUMED TO BE A DOMESTIC TYPE CLOTHES DRYER.
- CLOTHES DRYER SHALL BE EXHAUSTED IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS.
- CLOTHES DRYER EXHAUST SHALL BE DUCTED THROUGH THE CRAWLSPACE TO THE OUTSIDE OF THE BUILDING AND SHALL BE EQUIPPED WITH A BACKDRAFT DAMPER.
- WHERE EXHAUST DUCT PENETRATES A WALL MEMBRANE, THE ANNULAR SPACE SHALL BE SEALED WITH NONCOMBUSTIBLE MATERIAL, APPROVED FIRE CAULKING OR A NONCOMBUSTIBLE DRYER EXHAUST DUCT WALL RECEPTACLE.
- DUCT VERTICAL RISERS SHALL BE PROVIDED WITH A MEANS FOR CLEANOUT.
- EXHAUST DUCT SHALL BE 4 INCH NOMINAL IN DIAMETER AND SHALL HAVE A SMOOTH FINISH AND SHALL BE CONSTRUCTED OF 0.015 INCH MINIMUM METAL.
- EXHAUST DUCT SHALL BE SUPPORTED AT 4-FOOT INTERVALS AND SECURED IN PLACE.
- PROTECTIVE SHIELD PLATES SHALL BE PLACED WHERE NAILS OR SCREWS FROM FINISH OR OTHER WORK ARE LIKELY TO PENETRATE THE CLOTHES DRYER EXHAUST DUCT. SEE IBC SECTION 504.5.7 FOR SHIELD PLATE REQUIREMENTS.

SYMBOLS

⊙ SMOKE DETECTOR	⊕ PROGRAMMABLE THERMOSTAT
⊕ DUPLEX RECEPTACLE 120 V.	⊕ FLUORESCENT FIXTURE WITH 3-32W T8 TUBES & ELECTRONIC BALLAST (96 W. TOTAL FIXTURE WATTAGE)
⊕ DUPLEX RECEPTACLE 120 V. 40 INCHES A.F.F.	⊕ COMBO INTERNALLY LIGHTED EXIT SIGN (5 W.) & EMERGENCY LIGHT WITH BATTERY BACKUP
⊕ QUADPLEX RECEPTACLE 120 V.	⊕ JUNCTION BOX (NON POWERED UNLESS CIRCUIT NO. IS SHOWN)
⊕ SINGLE RECEPTACLE 240 V.	⊕ POWERED JUNCTION BOX (200 WATTS MAX.)
⊕ SWITCH/ 3 WAY & DIMMER SWITCH	⊕ EMERGENCY LIGHT WITH BATTERY BACKUP
⊕ EXTERIOR INCANDESCENT LIGHT WITH 1- 60 W. BULB	
⊕ VENT FAN	
⊕ SUPPLY AIR REGISTER	
⊕ RETURN AIR REGISTER	

ELECTRICAL SCHEDULE 'A'			
CIRCUIT	NOMENCLATURE	BREAKER (AMPS)	WIRE (CU.)
1,3A	HVAC	60 A (2P) HACR TYPE	6-8-10 MC +
2,5A	LIGHTING/FANS	15 A	14-2 MC
4,6A	RECEPTACLES	20 A	12-2 NM
ELECTRICAL PANEL SIZING:			
DESCRIPTION	SUBPANEL 'A'	KVA	
GENERAL LIGHTING			
0.035 KW/SF X 705 SF X 1.25=	3.1		
20 RECEPTS AT 180VA/1000=	3.6		
2 FAN AT .3 KW X 1.25=	1.1		
HVAC	10.9		
TOTAL 18.3 KW			
TOTAL/240 X 1000=	78.3 AMPS		
INSTALL	100 AMP PANEL & MAIN BREAKER		
	120/240 V 1ϕ		

* INSULATION ON WIRING IN MC CABLE SHALL BE RATED FOR 90° C.

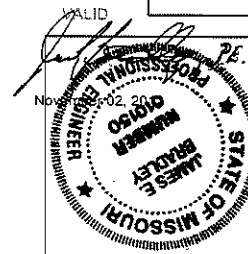
ELECTRICAL SCHEDULE 'B'			
CIRCUIT	NOMENCLATURE	BREAKER (AMPS)	WIRE (CU.)
1,3B	HVAC	60 A (2P) HACR TYPE	6-8-10 MC +
2B	LIGHTING	15 A	14-2 MC
4,5,6B	RECEPTACLES	20 A	12-2 NM
5B	WASHER	20 A (1P)	12-2 NM
7B	REFRIGERATOR	20 A (1P)	12-2 NM
9,11B	W/H	25 A (2P)	10-3 NM
10,12B	DRYER	30 A (2P)	10-3 NM
14,16B	DEDICATED	30 A (2P)	6-3 NM
15B	MICROWAVE	20 A (1P)	12-2 NM
13B	GARB. DISP.	20 A (1P)	12-2 NM
17B	DISH WASHER	20 A (1P)	12-2 NM

ELECTRICAL PANEL SIZING:		
DESCRIPTION	SUBPANEL 'B'	KVA
GENERAL LIGHTING		
0.035 KW/SF X 705 SF X 1.25=	3.1	
20 RECEPTS AT 180VA/1000=	3.6	
WATER HEATER 4.5 KW X 1.25=	5.6	
2 FANS AT .3 KW X 1.25=	0.0	
WASHER	1.5	
HVAC	10.9	
REFRIGERATOR	1.5	
DRYER	5.0	
DEDICATED	5.6	
MICROWAVE	1.2	
GARBAGE DISPOSAL	1.2	
DISH WASHER	1.2	
TOTAL 42.9 KW		
TOTAL/240 X 1000=	178.8 AMPS	
INSTALL	200 AMP PANEL & MAIN BREAKER	
	120/240 V 1ϕ	

APPROVED

RADCO
Nov 02, 2012

APPROVED



DIAMOND BUILDERS, INC.
440 THOMPSON DR. DOUGLAS GEORGIA 31534
(678) 384-7080 FAX: (678) 384-5721

DATE: 10/27/2012	JAMES E. BRADLEY, P.E. CONSULTING ENGINEER 1785 CARNEGIE AVENUE CLEARWATER, FL 33755	BY: JEB
SCALE: N/A	REVISIONS:	SHEET
CODES: SEE SUMMARY		
LABELS: RADCO, MO		
DBI: 5379 A/B	24 X 60 BUSINESS	2 OF 7
ELECTRICAL, MECHANICAL & PLUMBING NOTES		PLAN NO. DBI 5379