PHASE 3 CLUBHOUSE BUILDING FOR:
SHANTI NIKETAN SENIOR CONDOS

TAVARES, FLORIDA

GENERAL NOTES:

1. ALL WORK SHALL CONFORM TO THE FOLLOWING:
FLORIDA BUILDING CODE FIFTH EDITION (2014)
FLORIDA BUILDING CODE FIFTH EDITION (2014), EXISTING BUILDING
FLORIDA BUILDING CODE FIFTH EDITION (2014), FUEL GAS
FLORIDA BUILDING CODE FIFTH EDITION (2014), MECHANICAL
FLORIDA BUILDING CODE FIFTH EDITION (2014), PLUMBING
2010 FLORIDA FIRE PREVENTION CODE.
2011 NATIONAL ELECTRIC CODE
FLORIDA BUILDING CODE FIFTH EDITION (2014), ACCESSIBILITY CODE.
2012 LIFE SAFETY CODE
2012 NFPA 1 – FIRE CODE
2010 NFPA 10 – PORTABLE FIRE EXTINGUISHERS
2010 NFPA 13 – FIRE SPRINKLER INSTALLATION
2011 NFPA 70 – NATIONAL ELECTRICAL CODE
2010 NFPA 72 – NATIONAL FIRE ALARM AND SIGNALING CODE
2012 NFPA 90A – INSTALLATION OF A/C AND VENTILATION SYSTEMS
2012 NFPA 90B – INSTALLATION OF WARM AIR HEATING AND A/C SYSTEMS

2. SUBCONTRACTORS SHALL VERIFY ALL CONDITIONS, DETAILS AND DIMENSIONS BEFORE PROCEEDING WITH THE WORK AND SHALL BE NOTIFIED OF ANY DISCREPANCIES.
3. DO NOT SCALE DRAWINGS.
4. ALL WORK IN QUESTION INCLUDING MATERIALS, FINISHES AND COLORS SHALL BE COORDINATED WITH THE PROJECT MANAGER.
5. SPRINKLER CONTRACTOR SHALL VERIFY EXISTING LAYOUT AND SUBMIT PROPOSAL OF WORK REQUIRED TO MEET CODE.
6. MECHANICAL AND ELECTRICAL SUBCONTRACTORS SHALL BE RESPONSIBLE FOR SUBMITTING DRAWINGS AND OBTAINING THEIR RESPECTIVE PERMITS.
7. OWNER TO CERTIFY THAT NO ASBESTOS CONTAINING MATERIAL HAS BEEN USED FOR CONSTRUCTION OF THIS PREMISES.
8. ALL INTERIOR WALL AND CEILING FINISHES SHALL COMPLY WITH NFPA 101, SECTION 10.2.3 AND TABLE 803.5 OF FBC 2007 (W/2009 SUPPLEMENTS

9. LOCKING DEVICES ON REQUIRED EXIT DOORS SHALL NOT REQUIRE THE USE OF A KEY FOR OPERATION FROM INSIDE THE BUILDING PER FLORIDA FIRE PROTECTION CODE 1, 2010 EDITION, CHAPTER 14.5.2.2.

10. PROVIDE FULLY EQUIPPED FIRE ALARM SYSTEM.

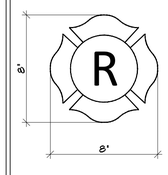
11. BUILDING ADDRESS MARKING PER THE FOLLOWING:
    a. NEW BUILDING TO HAVE APPROVED ADDRESS NUMBERS PLACED IN A POSITION TO BE PLAINLY LEGIBLE AND VISIBLE FROM THE STREET OR ROAD FRONTING THE PROPERTY.
    b. ADDRESS NUMBERS SHALL BE A MINIMUM OF 6" IN HEIGHT AND CONTRAST WITH THEIR BACKGROUND.
    c. ADDRESS NUMBERS SHALL BE ARABIC NUMERALS OR ALPHABET LETTERS PER FLORIDA FIRE PREVENTION CODE 1, 2010 EDITION, SECTION 10.12.1.

OCCUPANCY – MIXED USE:
ASSEMBLY GROUP A–2;
ASSEMBLY GROUP A–3;
BUSINESS GROUP B;
RESIDENTIAL GROUP R–3

CONSTRUCTION TYPE – III–B – FULLY SPRINKLED

MIN. INT. FINISH CLASS – "B"

CONDITIONED AREA –	8,858 SQ. FT.
UNCONDITIONED UNDER ROOF –	1,818 SQ. FT.
PORTE COCHERE–	668 SQ. FT.
TOTAL AREA UNDER ROOF–	11,334 SQ.FT.



STRUCTURE SHALL BE MARKED W/ APPROVED FIREFIGHTER SAFETY WARNING SIGN IN ACCORDANCE W/ THE FLORIDA ADMINISTRATIVE CODE 69A-3.012(6).

(1) THE APPROVED SYMBOL SHALL BE PLACED WITHIN 24 INCHES TO THE LEFT OF THE MAIN ENTRY DOOR AND:
(A) BE PERMANENTLY ATTACHED TO THE FACE OF THE STRUCTURE ON A CONTRASTING BACKGROUND, OR
(B) BE MOUNTED ON A CONTRASTING BASE MATERIAL WHICH IS THEN PERMANENTLY ATTACHED TO THE FACE OF THE STRUCTURE.

(2) THE DISTANCE ABOVE THE GRADE, WALKING SURFACE OR THE FINISHED FLOOR TO THE BOTTOM OF THE SYMBOL SHALL BE NOT LESS THAN 4 FEET (48 IN.).

(3) THE DISTANCE ABOVE THE GRADE, WALKING SURFACE OR THE FINISHED FLOOR TO THE TOP OF THE SYMBOL SHALL BE NOT MORE THAN 6 FEET (72 IN.).

INDEX OF DRAWINGS

PROVIDE KNOX BOX ON EXTERIOR WALL OF BUILDING WITHIN 12' OF THE LEFT SIDE OF MAIN PUBLIC ENTRANCE DOOR AT HEIGHT OF SIX (6) FEET ABOVE FLOOR FOR FIRE DEPT. ACCESS.

REVISIONS
1 1-30-2017
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PROJECT NO. 122CE1602-01
DATE 3-20-2017

COVER SHEET

PHASE 3 CLUBHOUSE BUILDING FOR:
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REVISIONS		
1	1-23-2016	
2	1-27-2017	
3	3-10-2017	
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PROJECT NO.
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FLOOR PLAN

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FLOOR PLAN

SCALE: 3/16"=1'-0"

NORTH

+12'-6"
CLG. HT.

TOWER CEILING

+24'-Ø"
CLG. HT.

+24'-Ø"
CLG. HT.

+10'-Ø"
WASHABLE

+10'-Ø"
GWB CLG

+10'-Ø"
CLG. HT.

GWB SOFFIT @
+10'-Ø"

+12'-6"
TEXT.
FIN. CLG

+12'-6"
TEXT. FIN.
CLG

+11'-Ø"
CLG. HT.

6" CROWN MOLD'G
ALL SIDES

+11'-6"

+10'-8"

+10'-Ø"

+11'-6"

6" CROWN MOLD'G
ALL SIDES

+10'-8"

+10'-Ø"

+11'-6"

6" CROWN MOLD'G
ALL SIDES

+3'-Ø"
CLG. HT.

BUFFET

STOR.

+9'-Ø"
CLG. HT.

+10'-Ø"
CLG. HT.

+10'-Ø"
CLG. HT.

ELEC. / T. RM.

+12'-6"
GWB CLG

+12'-6"
GWB CLG

6" CROWN MOLD'G
ALL SIDES

6" CROWN MOLD'G
ALL SIDES

+11'-6"

6" CROWN MOLD'G
ALL SIDES

PORTE COCHERE

+14'-Ø"
TEXT. FIN.
CLG

+11'-Ø"
CLG. HT.

+10'-Ø"
CLG. HT.

+10'-Ø"

+10'-8"

+11'-6"

6" CROWN MOLD'G
ALL SIDES

+14'-Ø"
CLG. HT.

+10'-Ø"

+10'-8"

+11'-6"

6" CROWN MOLD'G
ALL SIDES

LIVING UNIT

SEE SHEET AØ1.3
FOR LIVING UNIT
INFORMATION

+11'-Ø"
CLG. HT.

+10'-Ø"
CLG. HT.

FOR ALL KITCHEN EQUIPMENT,
SEE SCHEDULE ON SHEET A--

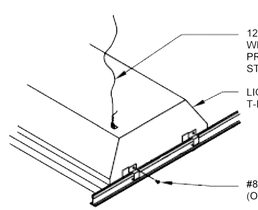
LIGHTING LEGEND

48" 3-T8- FLOURESCENT LIGHT LAY-IN		48" 2-LITE FLOURESCENT LIGHT 64-WATT, SURF.-MTD.	
48" 3-T8- FLOURESCENT LIGHT PARABOLIC		52" CEILING FAN W/ LIGHT KIT	
WALL MOUNT LIGHT		CHANDELIER LIGHT	
EXHAUST FAN		RECESSED CAN LIGHT	

REFLECTED CEILING PLAN

SCALE: 3/16"=1'-Ø"

NORTH



LIGHTING FIXTURE

REVISIONS

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REFLECTED CEILING PLAN

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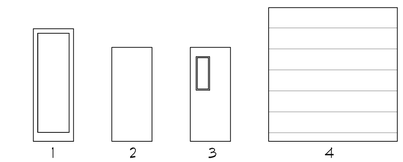
DOOR AND FRAME SCHEDULE

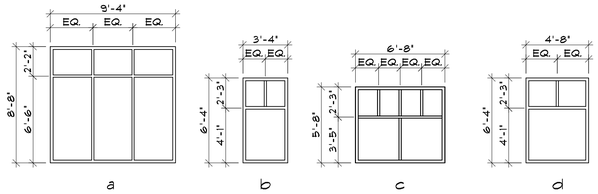
MARK	DOOR TYPE	DOOR SIZE WD	DOOR SIZE HGT	DOOR SIZE THK	DOOR MATL	DOOR GLAZING	FRAME MATERIAL	FRAME DETAIL HEAD	FRAME DETAIL JAMB	FRAME DETAIL SILL	NOTES
101	1	(2) 3'-0"	8'-0"	1 3/4"	ALUM./GLASS	TEMP. GL.	ALUM. & GLASS	--	--	ALUM.	STORE FRONT DOOR W/ 2'-4" TRANSOM PANEL ABOVE AND 1'-4" SIDELITES. PROVIDE PANIC HARDWARE
102	1	3'-0"	8-0"	1 3/4"	ALUM./GLASS	TEMP. GL.	ALUM. & GLASS	--	--	ALUM.	STORE FRONT DOOR W/ 2'-4" TRANSOM PANEL ABOVE AND 1'-4" SIDELITES. PROVIDE PANIC HARDWARE
103	2	3'-0"	8'-0"	1 3/8"	WOOD & GLASS	TEMP. GL.	WOOD	--	--	--	1-LITE GLASS
104	2	3'-0"	7'-0"	1 3/8"	HOLLOW CORE WOOD	--	WOOD	--	--	--	
105	2	3'-0"	7'-0"	1 3/4"	HOLLOW MTL	--	HOLLOW MTL	--	--	ALUM.	
106	2	3'-0"	7'-0"	1 3/8"	HOLLOW CORE WOOD	--	WOOD	--	--	--	
107	2	3'-0"	7'-0"	1 3/8"	HOLLOW WOOD	--	WOOD	--	--	--	--
108	2	3'-0"	8'-0"	1 3/8"	HOLLOW CORE WOOD	--	WOOD	--	--	--	--
109	2	(2) 3'-0"	8'-0"	1 3/4"	HOLLOW MTL	--	HOLLOW MTL	--	--	--	--
110	2	3'-0"	7'-0"	1 3/8	HOLLOW CORE WOOD	--	WOOD	--	--	--	--
111	2	3'-0"	7'-0"	1 3/8"	HOLLOW CORE WOOD	--	WOOD	--	--	--	--
112	2	3'-0"	7'-0"	1 3/8"	HOLLOW CORE WOOD	--	WOOD	--	--	--	--
113	3	3'-0"	7'-0"	1 3/8"	SPECIALTY	--	WOOD	--	--	--	ELIASON DOUBLE-ACTING
114	2	(2) 2'-4"	7'-0"	1 3/8"	HOLLOW CORE WOOD	--	WOOD	--	--	--	--
115	1	3'-0"	7'-0"	1 3/4"	ALUM./GLASS	TEMP. GL.	ALUM. & GLASS	--	--	ALUM.	STORE FRONT DOOR W/ 2'-4" TRANSOM PANEL ABOVE. PROVIDE PANIC HARDWARE
116	1	(2) 3'-0"	7'-0"	1 3/4"	ALUM./GLASS	TEMP. GL.	ALUM. & GLASS	--	--	ALUM.	STORE FRONT DOOR W/ 2'-4" TRANSOM PANEL ABOVE. PROVIDE PANIC HARDWARE
117	1	3'-0"	7'-0"	1 3/4"	ALUM./GLASS	TEMP. GL.	ALUM. & GLASS	--	--	ALUM.	STORE FRONT DOOR W/ 2'-4" TRANSOM PANEL ABOVE. PROVIDE PANIC HARDWARE
118	2	(2) 3'-0"	7'-0"	1 3/8"	HOLLOW CORE WOOD	--	WOOD	--	--	--	--
119	2	3'-0"	7'-0"	1 3/8"	HOLLOW CORE WOOD	--	WOOD	--	--	--	--
120	2	(2) 3'-0"	8'-0"	1 3/8"	HOLLOW CORE WOOD	--	WOOD	--	--	--	--
121	2	(2) 3'-0"	7'-0"	1 3/8"	HOLLOW CORE WOOD	--	WOOD	--	--	--	--
122	2	3'-0"	8'-0"	1 3/8"	HOLLOW CORE WOOD	--	WOOD	--	--	--	--
123	2	(2) 3'-0"	8'-0"	1 3/8"	WOOD & GLASS	--	WOOD	--	--	--	1-LITE GLASS
124	2	3'-0"	8'-0"	1 3/8"	HOLLOW CORE WOOD	--	WOOD	--	--	--	--
125	2	3'-0"	8'-0"	1 3/8"	HOLLOW CORE WOOD	--	WOOD	--	--	--	--
126	2	2'-8"	7'-0"	1 3/4"	SOLID CORE WOOD	--	WOOD	--	--	--	1-HR. FIRE-RATED ASSEMBLY W/ CLOSER
127	2	3'-0"	8'-0"	1 3/8	WOOD & GLASS	TEMP. GL.	WOOD	--	--	--	1-LITE GLASS
128	1	3'-0"	7'-0"	1 3/4"	ALUM./GLASS	TEMP. GL.	ALUM. & GLASS	--	--	ALUM.	STORE FRONT DOOR W/ 2'-4" TRANSOM PANEL ABOVE AND 1'-4" SIDELITES. PROVIDE PANIC HARDWARE
129	4	8'-0"	8'-0"	-	METAL	--	METAL	--	--	--	OVERHEAD ROLL-UP DOOR
130	1	(2) 2'-8"	7'-0"	1 3/8"	HOLLOW CORE WOOD	--	WOOD	--	--	ALUM.	
129	4	8'-0"	8'-0"	-	METAL	--	METAL	--	--	--	OVERHEAD ROLL-UP DOOR

NOTES:

FBC 11-4.13.9
HANDLES, LATCHES AND OTHER OPERATING DEVICES ON ACCESSIBLE DOORS SHALL HAVE A SHAPE THAT IS EASY TO GRASP WITH ONE HAND, AND DOES NOT REQUIRE TIGHT GRASPING, TIGHT PINCHING OR TWISTING OF THE WRIST TO OPERATE LEVER MECHANISM, PUSH-TYP MECHANISMS AND UNSHAPED HANDLES ARE ACCEPTABLE DESIGNS.
WHEN SLIDING DOORS ARE FULLY OPEN, HARDWARE SHALL BE EXPOSED AND USABLE FROM BOTH SIDES.
FBC 11-4.13.8
THRESHOLDS AT DOORWAYS SHALL NOT EXCEED ¾" IN HEIGHT FOR EXTERIOR SLIDING DOORS OR ½" FOR OTHER TYPE OF DOORS.
RAISED THRESHOLDS AND FLOOR LEVEL CHANGES AT ACCESSIBLE DOORWAYS SHALL BE BEVELED WITH A SLOPE NO GREATER THAN 1:2.ALL HARDWARE SHALL MEET CHAPTER 10 MEANS OF EGRESS AND CHAPTER 11 ACCESSIBILITY.



DOOR TYPES



WINDOW TYPES

ROOM FINISH SCHEDULE

ROOM NUM	ROOM NAME	FLOOR: CARPET	FLOOR: SHEET VINYL	FLOOR: VINYL COMPOSITION TILE	FLOOR: CERAMIC TILE	FLOOR: QUARRY TILE	FLOOR: SEALED CONC.	BASE: 3 1/4" WOOD	BASE: 4" RUBBER COVED	BASE: CERAMIC TILE	BASE: QUARRY TILE	BASE: NONE	WALL: PAINTED GYP. BD.	WALL: PAINTED 3/8" B.C. PLYWOOD	WALL: FIBRE REINFORCED PLASTIC	WALL: 5/8" STUCCO ON METAL LATH	WALL: CERAMIC TILE ON 1/2" BACKER BOARD	WALL: MIRROR ON 1/2" BACKER BOARD	CEILING: PAINTED GYP. BD.	CEILING: SUSPENDED ACOUSTICAL TILE 2'X4'	CEILING: SUSPENDED ACOUSTICAL TILE 2'X2'	CEILING: VINYL FACED SUSPENDED ACOUSTICAL TILE	CEILING: NONE - EXPOSED TO STRUCTURE	CEILING: 5/8" TEXT. FIN. EXT. GRADE GYP. BD.	CEILING: FIBERGLASS	CEILING: WOOD PANEL	CEILING: MOISTURE RESISTANT GYP. BD. EPOXY PAINTED	CLG. HGT.	REMARKS
101	PORTE COCHERE						X					X				X							X					14'-0"	
102	COVERED WALKWAY						X					X				X							X					14'-0"	
103	LOBBY					X					X		X						X		X							11'-0"	CROWN MOLDING
104	SITTING ROOM ¶					X					X		X						X		X							11'-0"	CROWN MOLDING
105	OFFICE ¶				X					X			X								X							10'-0"	
106	STORAGE			X					X				X								X							8'-6"	
107	MAINTENANCE SHOP						X						X						X									12'-6"	BOTT. CHORD OF TRUSSES
108	SPRINKLER ROOM						X						X								X							8'-6"	
109	ELECTRICAL / I.T. ROOM						X	X						X							X							10'-0"	
110	WOMEN'S RESTROOMS				X					X							X										X	10'-0"	
111	RECEIVING						X					X				X			X									10'-0"	
112	UNLOADING						X					X				X			X									10'-0"	
113	KITCHEN				X						X				X							X						10'-0"	
114	DRY GOODS				X						X											X						8'-6"	
115	EMPLOYEE TOILET				X					X							X		X								X	10'-0"	
116	SCULLERY					X					X				X							X						10'-0"	
117	CORRIDOR #2					X					X		X								X							10'-0"	
118	BUFFET					X					X		X						X		X							10'-0" / 11'-0"	
119	STORAGE			X					X				X								X							8'-6"	
120	DINING ROOM					X					X		X						X		X							10'-0" / 11'-0"	26'-4" TOWER CEILING
121	COVERED PATIO						X					X				X							X					12'-8"	
122	CORRIDOR ¶				X						X		X								X							11'-0"	CROWN MOLDING
123	FITNESS ROOM			X					X				X								X							11'-0"	
124	A.H.U. CLOSET						X						X										X					--	
125	SHOE CLOSET			X					X				X								X							8'-6"	
126	FLEX ROOM			X					X				X								X							11'-0"	
127	EQUIPMENT CLOSET			X					X				X								X							8'-6"	
128	STORAGE			X					X				X								X							8'-6"	
129	GALLERY				X					X			X								X							11'-0"	CROWN MOLDING
130	LIBRARY			X					X				X								X							10'-0"	
131	MEN'S RESTROOMS				X					X							X										X	10'-0"	
132	SITTING ROOM #2					X					X		X					X			X							11'-0"	CROWN MOLDING
133	OFFICE #2				X					X			X								X							10'-0"	

WINDOW SCHEDULE

MARK	SIZE WIDTH	SIZE HEIGHT	TOP OF WINDOW	TYPE	NOTES
a	9'-4"	8'-8"	10'-8"	FIXED ANOD. ALUM. & GLASS	--
b	3'-4"	6'-4"	9'-4"	FIXED ANOD. ALUM. & GLASS	--
c	6'-8"	5'-8"	9'-4"	FIXED ANOD. ALUM. & GLASS	--
d	4'-8"	6'-4"	9'-4"	FIXED ANOD. ALUM. & GLASS	--
				FIXED ANOD.	

TINTED GLASS

REVISIONS
1 2 3 4 5 6 7 8

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SCHEDULES

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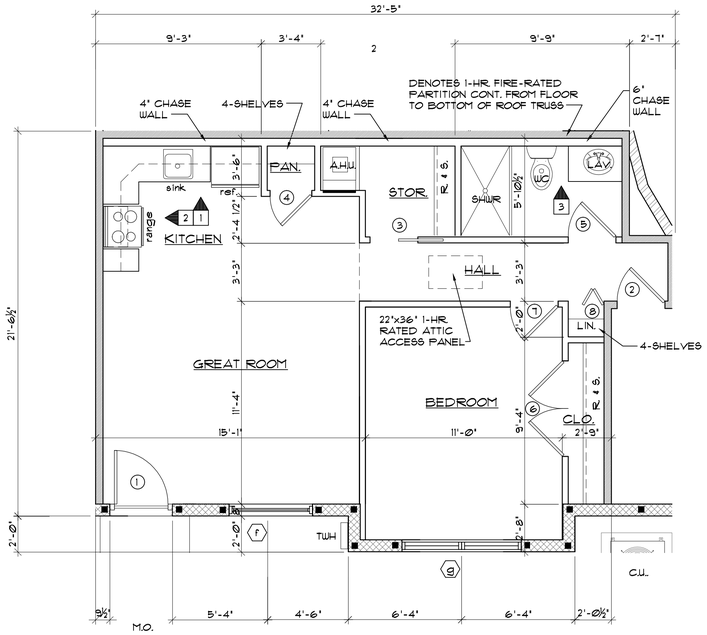


ENLARGED LIVING UNIT - FLOOR PLAN

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

ROOM FINISH SCHEDULE – LIVING UNIT

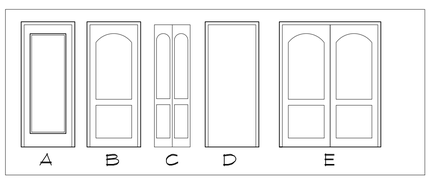
ROOM NAME	FLOOR						BASE						WALL			CEILING			CLG. HGT.	
	CARPET	SHEET VINYL	VINYL COMPOSITION TILE	CERAMIC TILE	QUARRY TILE	SEALED CONC.	5 1/4" WOOD	4" RUBBER COVED	CERAMIC TILE	QUARRY TILE	NONE	PAINTED GYP. BD.	5/8" STUCCO ON METAL LATH	MIRROR ON 1/2" BACKER BOARD	PAINTED GYP. BD/1-HR. FIRE RATED	5/8" STUCCO ON METAL LATH	MOISTURE RESISTANT GYP. BD.	EXP. PAINTED		REMARKS
ENTRY				X					X			X		X					10'-0"	
KITCHEN				X					X			X		X					10'-0"	
GREAT ROOM	X						X					X		X					10'-0"	
HALL	X						X					X		X					10'-0"	
STORAGE	X						X					X		X					10'-0"	
BEDROOM	X						X					X		X					10'-0"	
BATH				X			X							X		X			10'-0"	

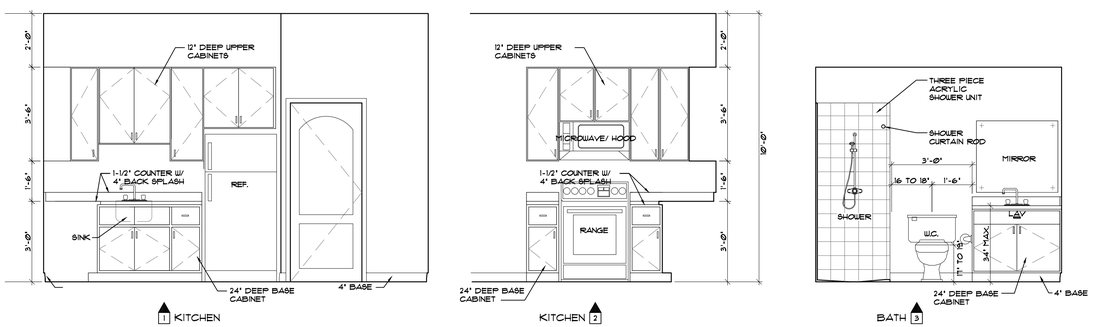
DOOR AND FRAME SCHEDULE – LIVING UNIT

MARK	DOOR SIZE WD	HGT	THK	TYPE	Style	MATL	FRAME	THRESH	FRAME DETAIL HEAD	JAMB	SILL	FIRE RATING	NOTES
1	3'-0"	6'-8"	1 3/4"	A	Hinged - Single - Exterior	FIBER GLASS	WOOD	ALUM.	--	--	--	--	--
2	3'-0"	6'-8"	1 3/4"	D	Hinged - Single	S.C. WOOD	WOOD	Marble	--	--	--	20 minute	Auto Closer
3	2'-8"	6'-8"	1 3/4"	B	Pocket - Single	H.C. WOOD	WOOD	--	--	--	--	--	--
4	2'-4"	6'-8"	1 3/4"	B	Hinged - Single	H.C. WOOD	WOOD	--	--	--	--	--	--
5	2'-8"	6'-8"	1 3/4"	B	Hinged - Single	H.C. WOOD	WOOD	Marble	--	--	--	--	--
6	PR 2'-8"	6'-8"	1 3/4"	E	Hinged - Double	H.C. WOOD	WOOD	--	--	--	--	--	--
7	2'-8"	6'-8"	1 3/4"	B	Hinged - Single	H.C. WOOD	WOOD	--	--	--	--	--	--
8	2'-0"	6'-8"	1 3/4"	C	Bi-fold - Double	S.C. WOOD	WOOD	--	--	--	--	--	Louvered
9	2'-8"	6'-8"	1 3/4"	B	Hinged - Single	S.C. WOOD	WOOD	--	--	--	--	--	--

NOTES

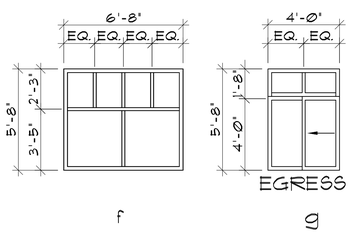
1. ALL DOORS TO EXTERIOR SHALL HAVE WEATHER STRIPPING & THRESHOLD.
2. ALL WINDOWS TO RECEIVE IX PT. BUCKING. VERIFY WINDOW R.O. DIMENSIONS BEFORE PUTTING THE BLOCK AND CONC POUR.
3. ALL GLAZING AT HAZARDOUS LOCATIONS SUCH AS TUB, SHOWER ENCLOSURES, WINDOWS, FRENCH DOORS, DOOR SIDELIGHTS, SHALL BE CATEGORY "2" SAFETY GLASS AS PER SECTION 2406.1 OF THE F.B.C.
4. DOOR AND WINDOW MANUFACTURERS SHALL VERIFY THAT ANY GLAZING USED IN EXTERIOR WALLS SHALL MEET WIND LOAD DESIGNS AS SPECIFIED IN CHAPTER 16 OF THE F.B.C.
5. ALL EGRESS OR RESCUE WINDOWS FROM SLEEPING ROOMS MUST HAVE A MINIMUM NET CLEAR OPENING OF 5.0 SF. THE MINIMUM NET OPENING HEIGHT AND WIDTH DIMENSIONS SHALL BE 24 IN. AND 20 IN. RESPECTIVELY. THE SILL HEIGHT SHALL NOT BE MORE THAN 44" A.F.F.
6. WINDOWS SHOULD BE OPERATIONAL FROM INSIDE OF THE ROOM WITHOUT THE USE OF KEYS OR TOOLS. WINDOWS SHOULD REQUIRE NO MORE THAN 5 LBS (22.2N) TO OPEN OR CLOSE.
7. PROVIDE BACKING FOR MOUNTING OF GRAB BARS SHOWN ON PLANS. (SEE NOTES ON A6)
8. ACCESSIBLE TOILET SEAT SHALL BE BETWEEN 17" AND 19" ABOVE THE FLOOR.
9. ACCESSIBLE LAVATORY SHALL BE NO MORE THAN 34" HIGH AND WITH AT LEAST 29" HIGH CLEARANCE UNDER THE FRONT EDGE. IT SHALL HAVE A FAUCET THAT IS EASILY OPERABLE AND USABLE WITH ONE HAND, WITHOUT TIGHT GRASPING, PINCHING, OR TWISTING OF THE WRIST.





INTERIOR ELEVATIONS

SCALE: 3/8"=1'-0"



WINDOW TYPES

WALL LEGEND

INTERIOR WALL	NOMINAL 2X4 WOOD STUDS AT 24" O.C. MAX. WITH 1/2" MIN. THICK GYPSUM WALL BOARD ON BOTH SIDES. USE DUROCK SHEATHING AS NEEDED AT TUB, LAV. AND W.C. LOCATIONS
1-HR. FIRE RATED INTERIOR WALL	NOMINAL 2X4 WOOD STUDS AT 24" O.C. MAX. WITH (1) LAYERS 5/8" MIN. THICK TYPE 'X' GYPSUM WALL BOARD ON BOTH SIDES. USE DUROCK SHEATHING AS NEEDED AT TUB, LAV. AND W.C. LOCATIONS
EXTERIOR CMU WALL	1-HOUR FIRE RATED NOMINAL 8"X8"X16" CONC. MASONRY BLOCK UNIT WITH 1/2" MIN. GYPSUM WALL BOARD ON P.T. 1X2 FURRING STRIPS AT 24" O.C. AT INTERIOR SIDE W/ R-5 INSULATION IN WALL CAVITY, AND 5/8" STUCCO FINISH AT EXTERIOR (SEE WALL SECTION)
INTERIOR/ TENANT SEPARATION WALL	1-HOUR FIRE RATED NOMINAL 8"X8"X16" CONC. MASONRY BLOCK UNIT WITH 1/2" MIN. GYPSUM WALL BOARD ON P.T. 1X2 FURRING STRIPS AT 24" O.C. ON BOTH SIDES (SEE WALL SECTION)

REVISIONS

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PROJECT NO. 122CE1602-01

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ENLARGED LIVING UNIT FLOOR PLAN SCHEDULES/ NOTES/ DETAILS

PHASE 3 CLUBHOUSE BUILDING FOR: SHANTI NIKETAN SENIOR CONDOS

TAVARES , FLORIDA
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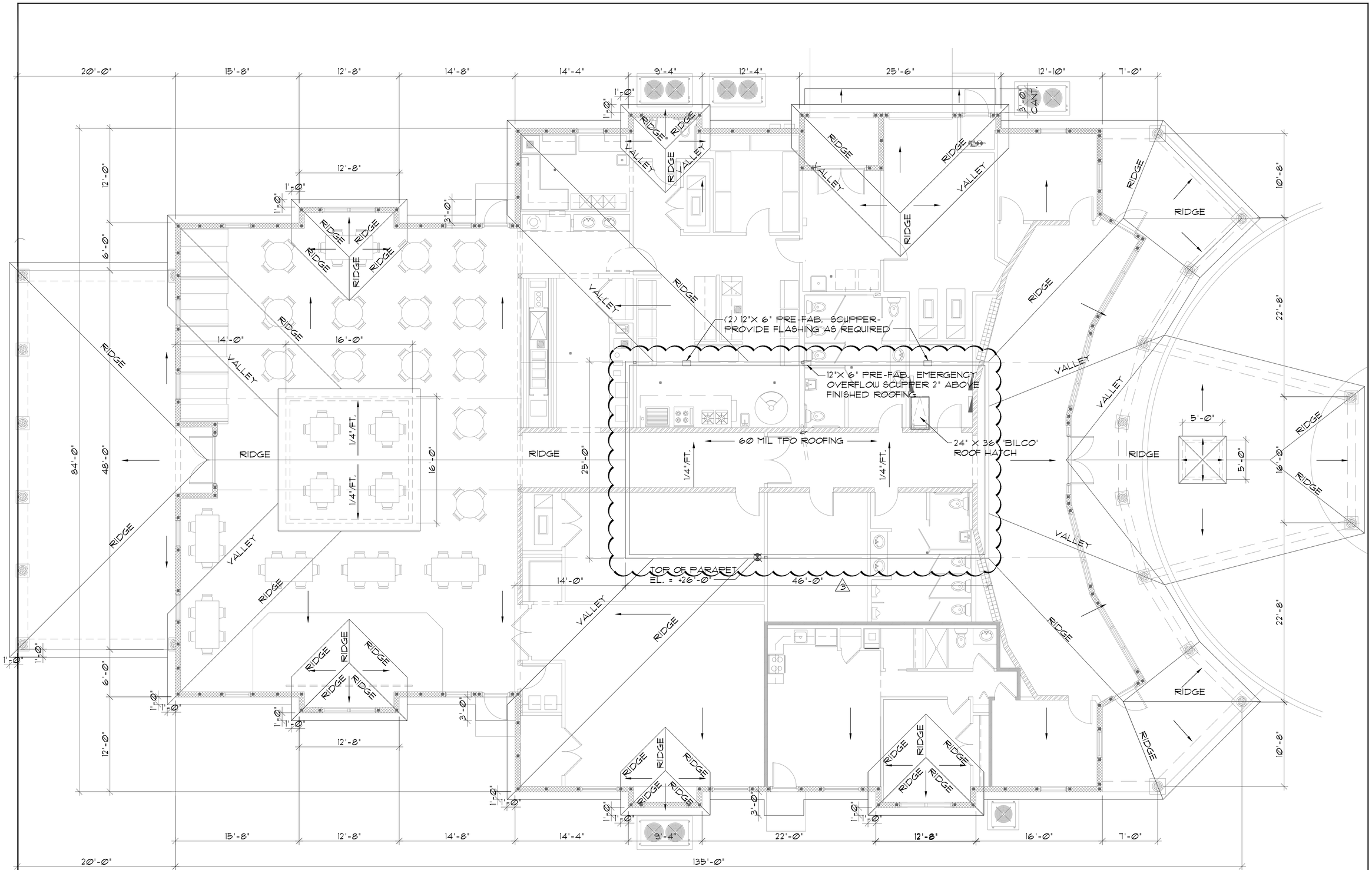

ROOF PLAN

SCALE: 3/16"=1'-0"

NORTH

REVISIONS		
1	3-30-2016	
2	10-13-2016	
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ROOF PLAN

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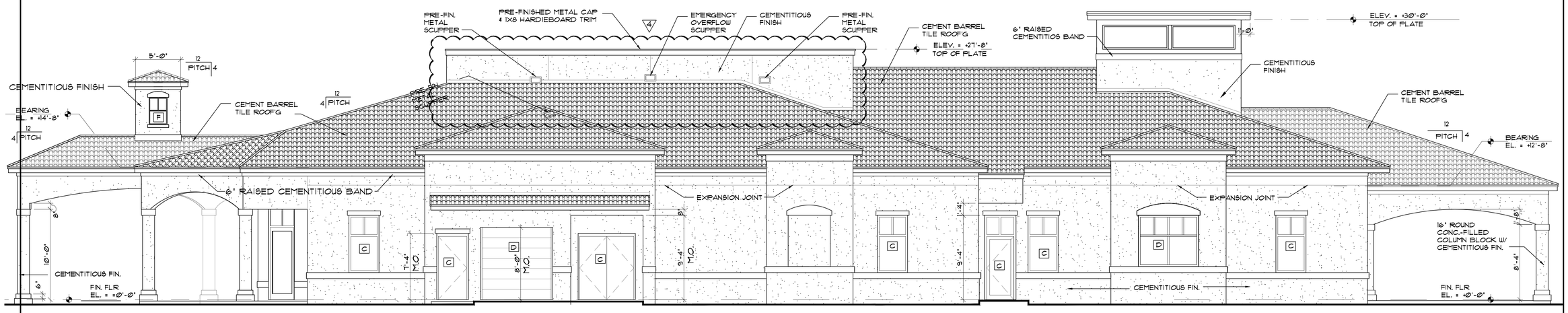
FRONT (WEST) ELEVATION

SCALE: 3/16"=1'-0"

140 M.P.H. WIND PRESSURE TABLE

		WINDOW AREA IN SQ. FT.	POSITIVE	NEGATIVE
	A	00.0' - 10.0'	35.3	-38.2
	B	10.0' - 20.0'	33.7	-36.7
	C	20.0' - 50.0'	31.6	-34.6
	D	50.0' - 100.0'	30.0	-33.0
	E	100.0' - 500.0'	26.3	-29.3
WITHIN 3'-0" OF A CORNER	F	00.0' - 10.0'	35.3	-47.2
	G	10.0' - 20.0'	33.7	-44.0
	H	20.0' - 50.0'	31.6	-39.8
	J	50.0' - 100.0'	30.0	-36.7
	K	100.0' - 500.0'	26.3	-29.3



RIGHT SIDE (NORTH) ELEVATION

SCALE: 3/16"=1'-0"

REVISIONS		
1	3-30-2016	
2	7-25-2016	
3	10-13-2016	
4	3-16-2017	
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ELEVATIONS

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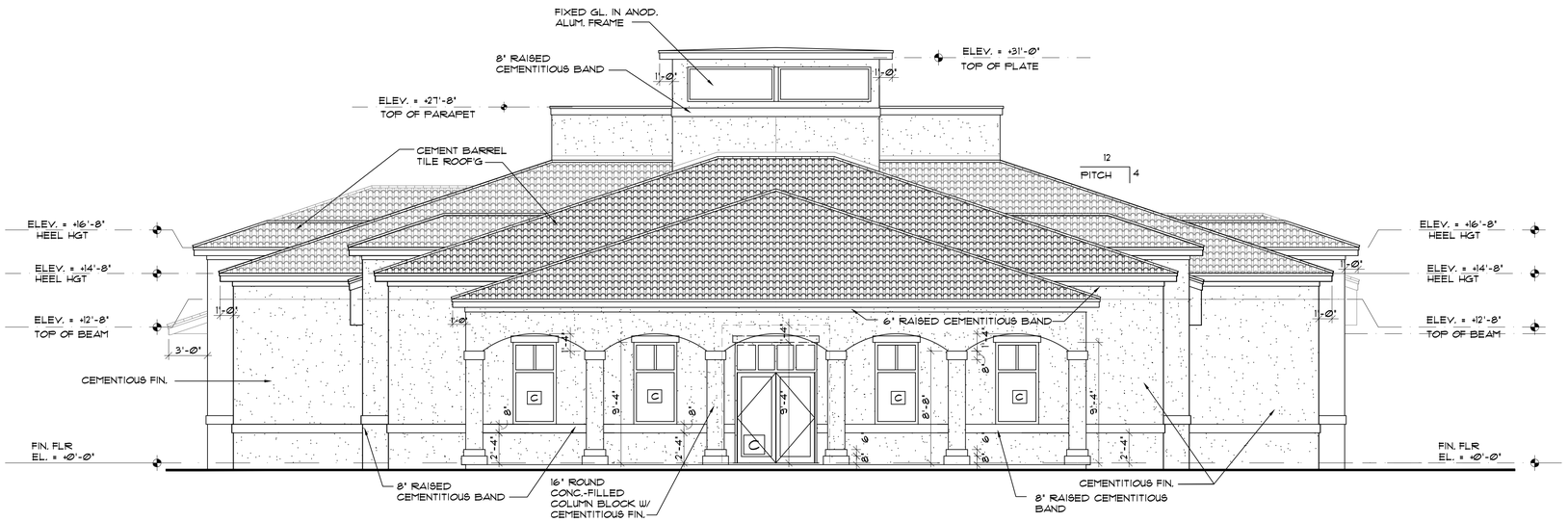
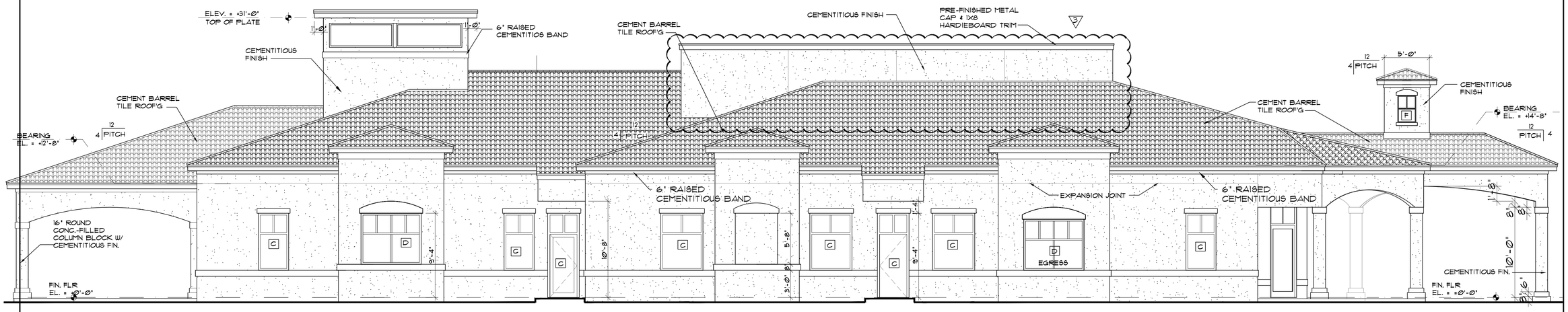


REAR (EAST) ELEVATION

SCALE: 3/16"=1'-0"

140 M.P.H. WIND PRESSURE TABLE		WINDOW AREA IN SQ. FT.	POSITIVE	NEGATIVE
	A	00.0' - 10.0'	35.3	-38.2
	B	10.0' - 20.0'	33.7	-36.7
	C	20.0' - 50.0'	31.6	-34.6
	D	50.0' - 100.0'	30.0	-33.0
	E	100.0' - 500.0'	26.3	-29.3
WITHIN 3'-0" OF A CORNER	F	00.0' - 10.0'	35.3	-47.2
	G	10.0' - 20.0'	33.7	-44.0
	H	20.0' - 50.0'	31.6	-39.8
	J	50.0' - 100.0'	30.0	-36.7
	K	100.0' - 500.0'	26.3	-29.3



LEFT SIDE (NORTH) ELEVATION

SCALE: 3/16"=1'-0"

REVISIONS		
1	3-30-2016	
2	10-13-2016	
3	3-10-2017	
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ELEVATIONS

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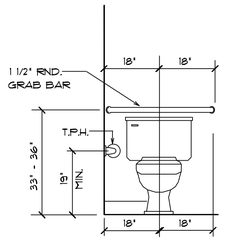
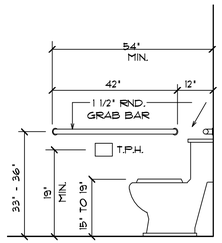
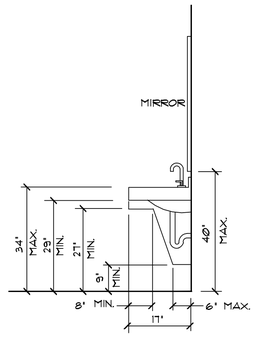
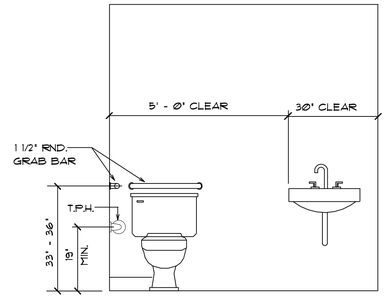






ADA RESTROOM DETAILS



NOTE
ALL CONSTRUCTION TO BE 3/4" MDF WITH P-LAM (U.O.N.)

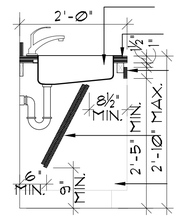
ADA COMPLIANT SINK AND FAUCETS

3/4" PLYWOOD COUNTER WITH SOLID SURFACE

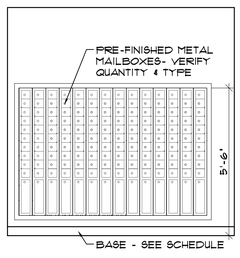
3/4" MDF APRON WITH P-LAM

REMOVABLE PLASTIC LAMINATE PANEL ON 2x2 CLEATS WITH (2) Z-CLIPS AT EACH END

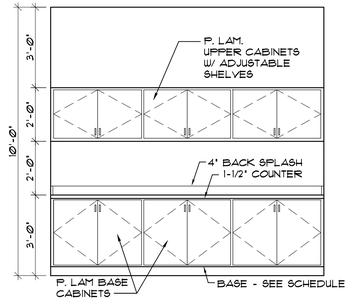
CABINET BEYOND (WITH FINISH END)



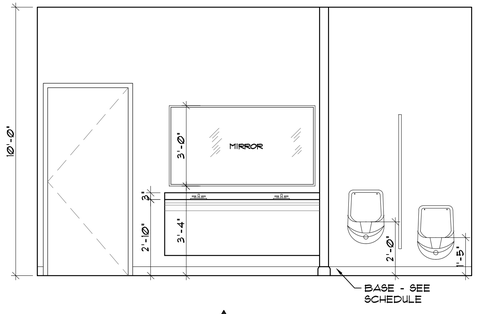
ADA ACCESIBLE SINK
BASE CABINET SECTION



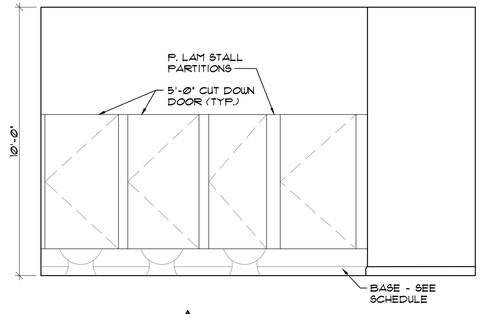
1 MAIL CENTER



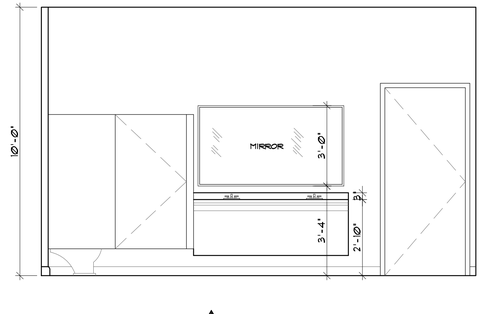
2 OFFICE #2



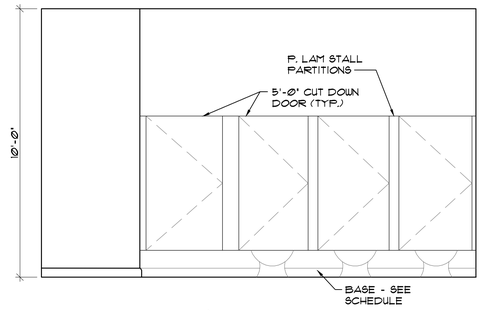
3 MEN'S TOIL ET ROOM



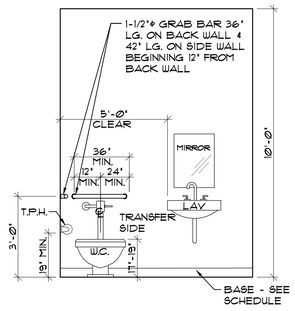
4 MEN'S TOIL ET ROOM



5 WOMEN'S TOILET ROOM



6 WOMEN'S TOILET ROOM



7 UNISEX TOILET ROOM
EMPLOYEE TOILET ROOM (REV.)

INTERIOR ELEVATIONS

SCALE: 3/8"=1'-0"

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INTERIOR ELEVATIONS

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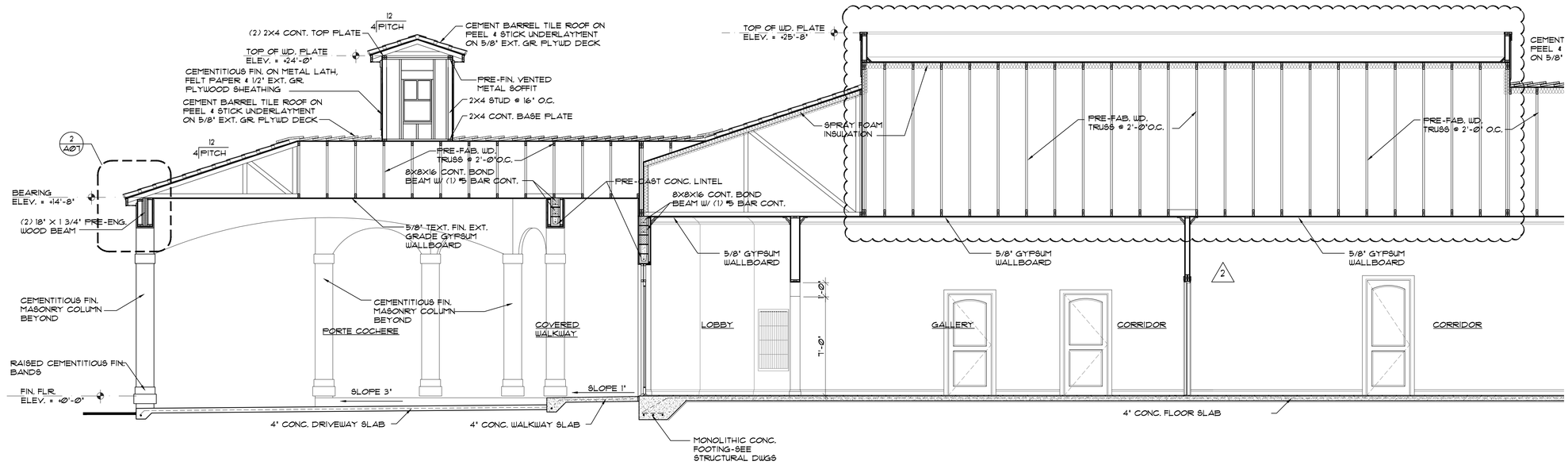
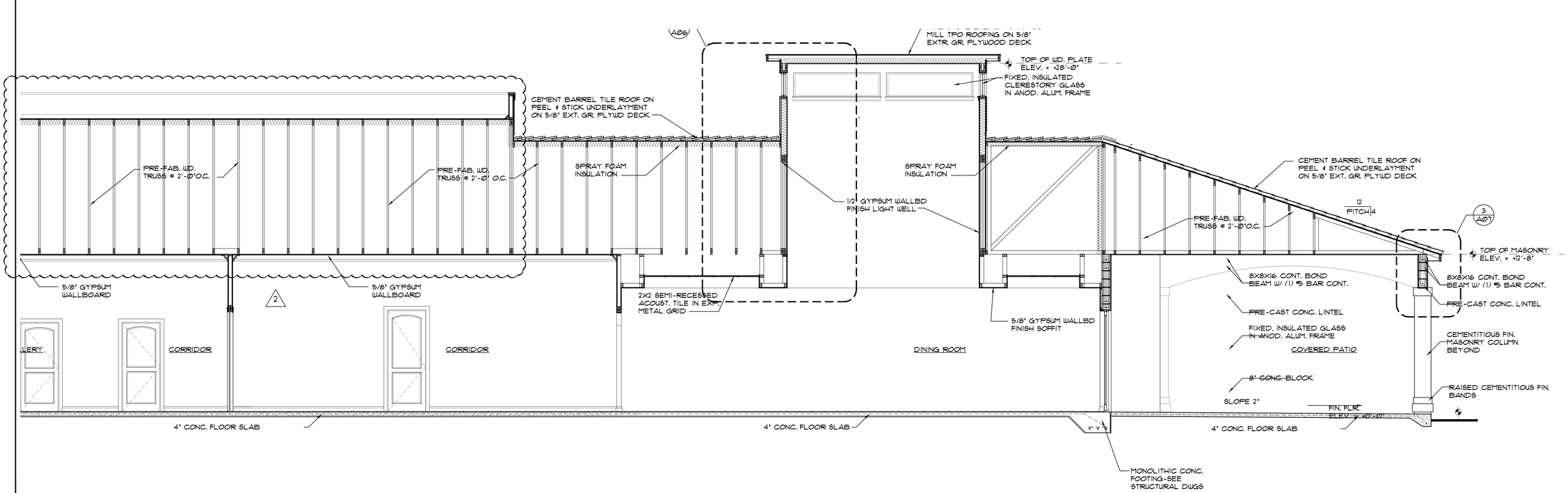


PARTIAL BUILDING SECTION 'A-A'

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



PARTIAL BUILDING SECTION 'A-A'

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

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BUILDING SECTION

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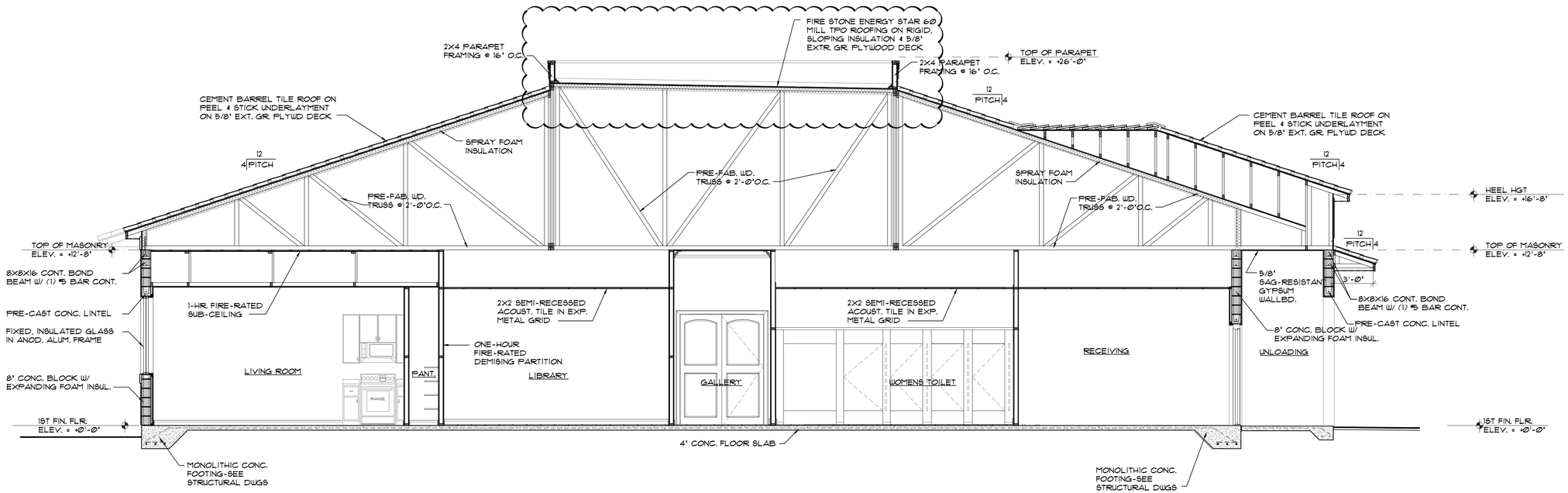
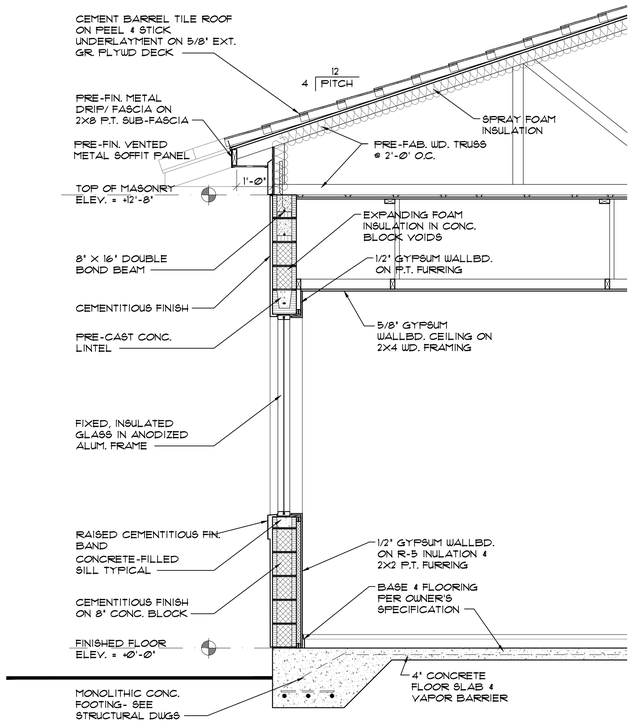


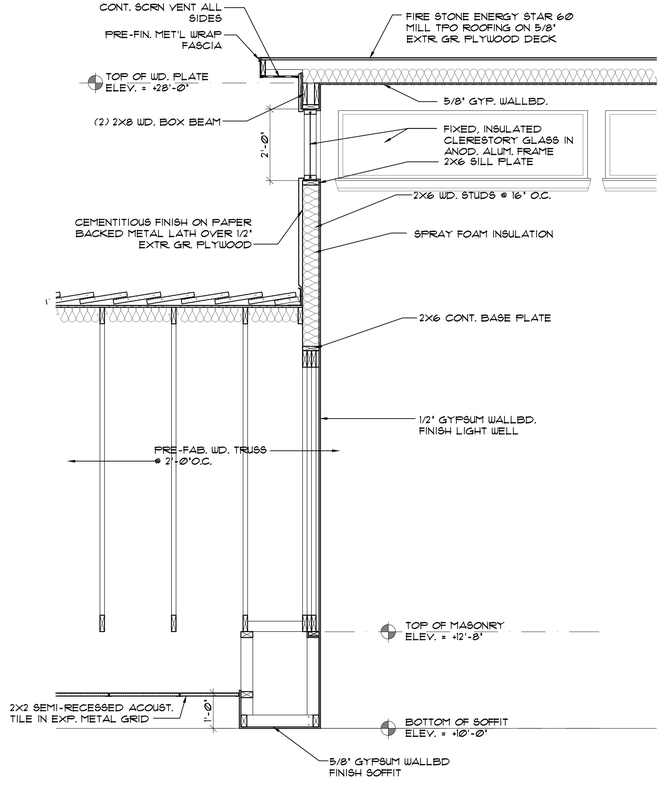
BUILDING SECTION 'B-B'

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



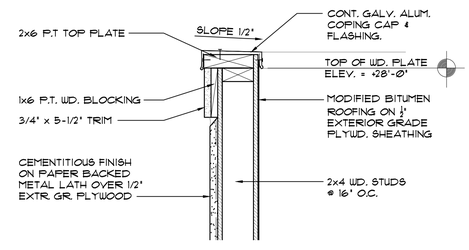
1 A06 WALL SECTION

SCALE: 1/2"=1'-0"



2 A06 DETAIL SECTION

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



3 A06 SECTION DETAIL

SCALE: 1-1/2"=1'-0"

REVISIONS	
1	3-10-2017
2	
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SECTIONS± DETAILS

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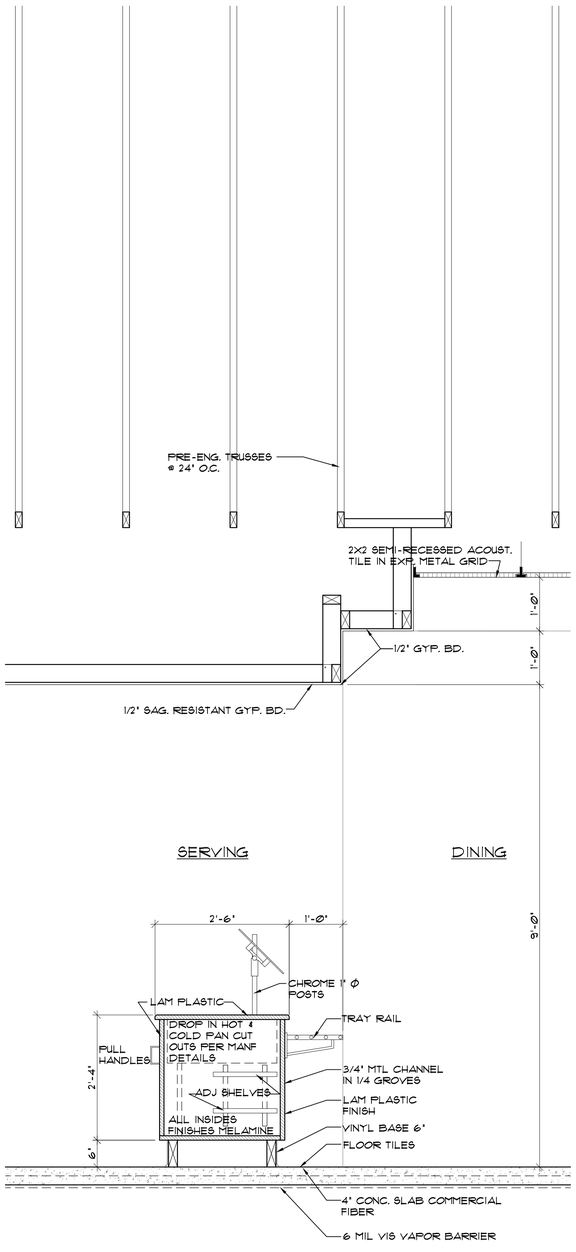
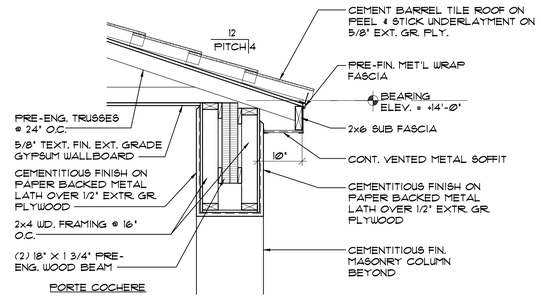


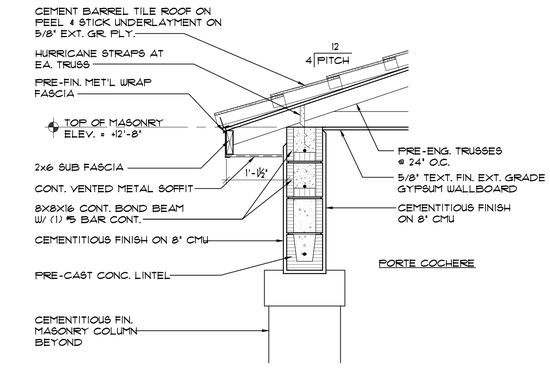
1 A07 WALL SECTION

SCALE: 1/2"=1'-0"



2 A07 WALL SECTION

SCALE: 3/4"=1'-Ø"



3 A07 WALL SECTION

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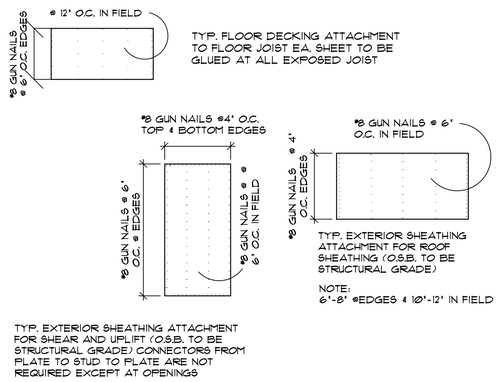
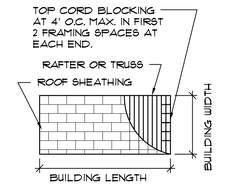


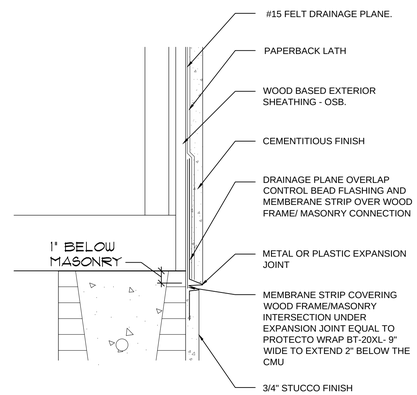
4 A07 TYPICAL ROOF/FLOOR NAILING PATTERN

SCALE: N.T.S.



4 A07 ROOF SHEATHING LAYOUT & ENDWALL BRACING FOR GABLE END FRAMING

SCALE: N.T.S.



4 A07 CEMENTITIOUS FLASHING DETAIL @ CMU / FRAME INTERFACE

SCALE: N.T.S.

REVISIONS

1	2	3	4	5	6	7	8

PROJECT NO. 122CE1602-01

DATE 3-20-2017

BUILDING & WALL SECTION

PHASE 3 CLUBHOUSE BUILDING
FOR:
SHANTI NIKETAN SENIOR CONDOS
TAVARES , FLORIDA
PH: (517) 214-5667, WEBSITE: WWW.BHARATVILAS.COM

RABITS & ROMANO
ARCHITECTURE
PLANNING AND DESIGN
AA26002490
5127 SOUTH ORANGE AVE.
SUITE 110 ORLANDO, FL. 32809
TEL - 407-490-0350
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info@rabits-architect.com
www.rabits-architect.com

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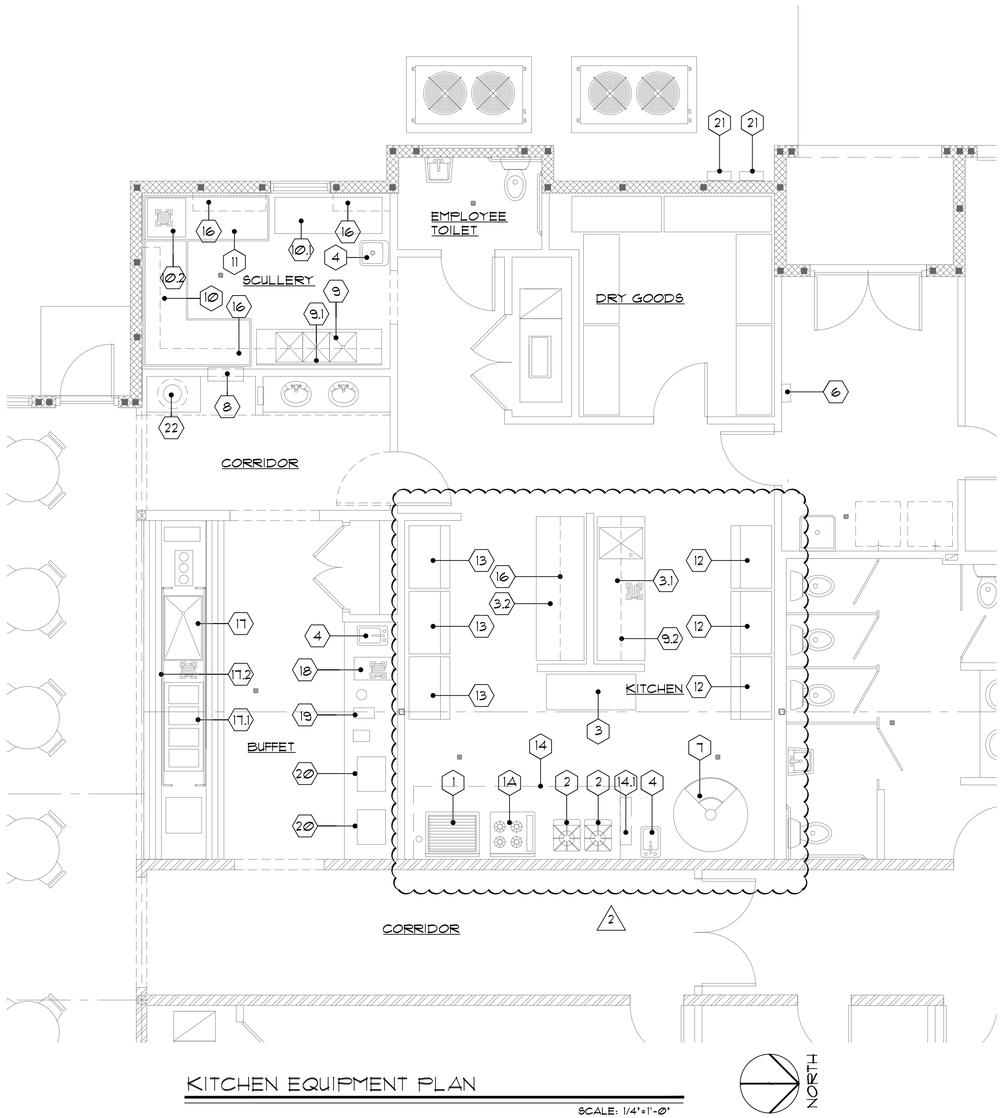
DATE

SHEET A07 OF 53



KITCHEN EQUIPMENT PLAN

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

FOODSERVICE EQUIPMENT SCHEDULE			
MK.	QTY	DESCRIPTION	REMARKS/DESCRIPTION
1 1A	1 1	GRIDDLE, 36" RESTAURANT, GAS RANGE, 36" RESTAURANT, GAS	
2	2	STOCK POT RANGE, GAS	
3	1	WORKTABLE 48" STAINLESS STEEL TOP	
3.1	1	WORKTABLE 96" S.S. W/ INTEGRAL SINK	
3.2	1	WORKTABLE 96" STAINLESS STEEL TOP	
4	3	Hand Sink	
5	1	ICE MAKER W/BIN CUBE STYLE	
6	1	WATER FILTER ASSEMBLY	
7	1	ROTI MACHINE	
8	1	PASS-THRU WINDOW	
9	1	3-COMPARTMENT SINK	
9.1	1	WALL MOUNTED FAUCET	
9.2	1	SHELF W/POT RACK	
10	1	SOILED DISHTABLE	
10.1	1	72" RIGHT SIDE CLEAN DISH-TALBLE	
10.2	1	DISHWASHER	
11	1	48" S.S. CLEAN DISH TABLE	
12	3	42" STAND-UP FREEZER	
13	3	42" STAND-UP REFRIGERATOR	
14	1	144" L. HOOD & EXHAUST SYSTEM	
14.1	1	ANSUL FIRE SUPPRESSION SYSTEM	
15	"	SPACE	
16	7	12" W. OVERSHELF	
17	1	COLD FOOD PAN, DROP-IN	
17.1	1	DROP-IN HOT FOOD WELL UNIT, ELEC	
17.2	1	SNEEZE GUARD	
18	1	ICE DISPENSER	
19	1	HOT WATER DISPENSER	
20	2	DISPLAY CASE, REFRIG, COUNTERTOP	
21	2	TANKLESS WATER HEATER	
22	1	TRASH RECEPTACLE	UNDER COUNTER W/ 12" ROUND OPENING

Heavy Duty Restaurant Range, GAS, 36", (1) 36" griddle w/3/4" thick grill plate, manual controls; (6) 32,000 BTU open burners, (2) std, oven w/one rack ea, o ea front, sides, high shelf and riser, 6" chrome plated legs, ETL 302,000 Natural Gas (1) Convection oven left & std, oven right add suffix "-CL" to model number.

Stock Pot Range, GAS; (1) Jet burner, cast iron top grate, manual controls, open cabinet base, stainless steel front and sides, AGA, CGA, NSF.

Work Table, 30"Wx96"L, 16 gauge type 430 stainless steel top with 4-1/2" backsplash, marine edge front, ends, 16 gauge S/S undershelf 1-5/8" O.D, 16 gauge galvanized legs, adjustable high impact plastic bullet Feet, Built in sink,

Royal Series Faucet, deck-mounted, 4" centers, gooseneck, 3-1/2" wide, Removable cartridge valve assembly, NSF (best),

Wall-Mounted Stainless Steel

Consisting of: 2 ea, 1848; 6 ea, 74" posts; 8 ea 1848 shelves; 8 ea S-clips

Ice Maker 1Wh Bin, Cube-Style, air cooled, 115v/60/1-ph, 6.1 Amps, ENERGEY STAR qualified,

Water Filter Assembly, HC-H Filter with Antimicrobial Agent, Class 1 T & O, coarse filtration, for single,

Electric Slicer on 72" x 24" Stainless Steel Table With Overshelf

Three comp sink,

Wall mounted faucet

84" wall shelf w/pot rack,

72" soiled dish-table, approx, w/16 ga, s/s construction, 6" high Backsplash, re-rinse sink, pass

36" Right side clean dish-table

Corner Dishwasher, Chemical

Custom - Pass Thru window frames w/12" ledge 24" x 36" flange around, 1-1/2" Furnished to contractor for install.

REVISIONS	
1	1-1-2015
2	3-10-2017
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PROJECT NO.
122CE1602-01

DATE
3-20-2017

KITCHEN EQUIPMENT PLAN / SCHEDULE

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FOR:
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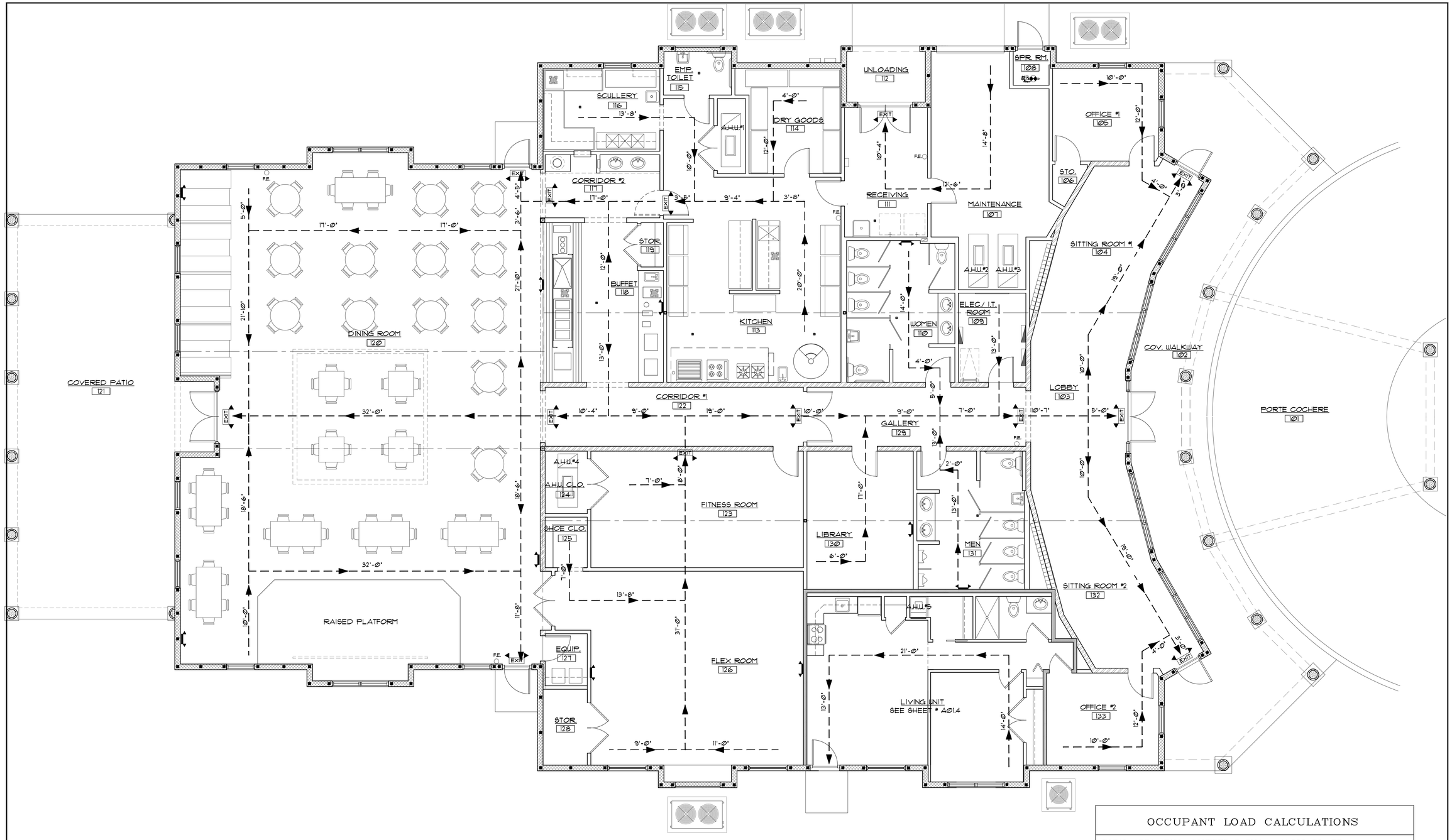

LIFE SAFETY PLAN

SCALE: 3/16"=1'-0"

NORTH

DENOTES PASS OF EGRESS

F.E. - DENOTES 2A10BC FIRE EXT. W/ TOP @ 5'-0" A.F.F.

MAXIMUM 75 FEET TRAVEL DISTANCE TO REACH FIRE EXTINGUISHER

FIRE EXTINGUISHERS PER NFPA 10, 2007 EDITION.
FIRE EXTINGUISHERS SHALL BE LOCATED CONSPICUOUSLY AND READILY ACCESSIBLE.
FIRE EXTINGUISHERS TO HAVE AN UP-TO-DATE TAG FROM A LOCAL FIRE EXTINGUISHER COMPANY AFFIXED TO IT.

MINIMUM EXITS REQUIRED = 3 EXITS PROVIDED = 6
DEAD END LIMIT = 100 FT. ACTUAL DEAD END = 50 FT.
TRAVEL DISTANCE LIMIT= 250 FT. ACTUAL MAX. TRAVEL DISTANCE = 100 FT.
EXIT CAPACITY REQUIRED = 44" EXIT CAPACITY PROVIDED (MINIMUM) = 44"

OCCUPANT LOAD CALCULATIONS

TOTAL AREA (INCL. COVERED PATIO) = 11,389 SQ. FT.

LOBBY / SITTING ROOMS	817 SQ. FT. / 15	=	55
FLEX ROOM	675 SQ. FT. / 15	=	45
LIBRARY	221 SQ. FT. / 15	=	15
RECEIVING AREA	163 SQ. FT. / 300	=	1
ELECTRICAL RM.	94 SQ. FT. / 300	=	1
DINING (TABLE & CHAIRS)	2,457 SQ. FT. / 15	=	164
DINING (FIXED SEATING)	BOOTH SEATING	=	16
KITCHEN	861 SQ. FT. / 200	=	5
BUFFET	266 SQ. FT. / 15	=	18
OFFICES	326 SQ. FT. / 100	=	4
MAINTENANCE ROOM	364 SQ. FT. / 300	=	2
STORAGE/ELEC. ROOMS	171 SQ. FT. / 300	=	1
DRY GOODS	195 SQ. FT. / 300	=	1
COVERED PATIO	999 SQ. FT. / 15	=	67
TOTAL CALCULATED OCCUPANT LOAD		=	395

REVISIONS
1 1-29-2017
2
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PROJECT NO.
122CE1602-01

DATE
3-20-2017

LIFE SAFETY PLAN

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FOR:
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SIGN/SEAL

DATE

SHEET
A09
OF
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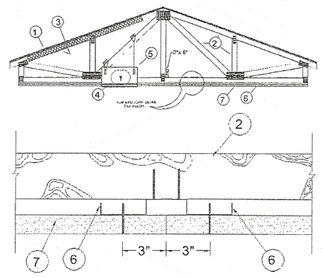
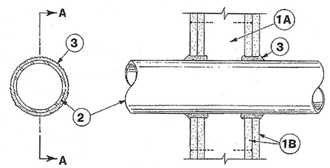
Design No. P531
Unrestrained Assembly Rating-1 Hr.
Finish Rating-25 Min.



1. **Roofing System*** — Any UL Class A, B or C Roofing System (**TGFU**) or Prepared Roof Covering (**TFWZ**) acceptable for use over nom 15/32 in. thick plywood sheathing. Nom 15/32 in. thick plywood sheathing secured to trusses with construction adhesive and No. 6d ringed shank nails. Nails spaced 12 in. OC along each truss. Staples having equal or greater withdrawal and lateral resistance strength may be substituted for the 6d nails.
2. **Trusses** — Pitch or Parallel chord trusses, spaced a max of 24 in. OC, fabricated from nom 2 by 4 lumber, with lumber oriented vertically or horizontally. Truss members secured together with 0.040 in. thick galv steel plates. Plates have 5/16 in. long teeth projecting perpendicular to the plane of the plate. The teeth are in pairs facing each other (made by the same punch), forming a split tooth type plate. Each tooth has a chisel point on its outside edge. These points are diagonally opposite each other for each pair. The top half of each tooth has a twist for stiffness. The pairs are repeated on approximately 7/8 in. centers with four rows of teeth per inch of plate width. Where the truss intersects with the interior face of the exterior walls, the min truss depth shall be 5-1/4 in. with a min roof slope of 3/12 and a min. area in the plane of the truss of 21 sq/ft. Where the truss intersects with the interior face of the exterior walls, the min truss depth may be reduced to 3 in. if the batts and blankets (Item 3) are used as shown in the above illustration (Alternate Insulation Placement) and are firmly packed against the intersection of the bottom chords and the plywood sheathing.
3. **Batts and Blankets*** — (Optional) —Glass fiber insulation, secured to the plywood decking with staples spaced 12 in. OC or to the trusses with 0.090 in. diam galv steel wires spaced 12 in. OC. Any glass fiber insulation bearing the UL Classification Marking as to Surface Burning Characteristics and/or Fire Resistance, having a min density of 0.5 pcf. As an option, the insulation may be fitted in the concealed space, draped over the resilient channel/gypsum wallboard ceiling membrane when resilient channels and gypsum wallboard attachment is modified as specified in Items 6 and 7. The finished rating has only been determined when the insulation is secured to the decking.
4. **Air Duct*** — Any UL Class 0 or Class 1 flexible air duct installed in accordance with the instructions provided by the damper manufacturer.
5. **Damper*** — Nom 20 in. long by 18 in. wide by 2-1/8 in. high, fabricated from galvanized steel. Plenum box maximum size nom. 21 in. long by 18 in. wide by 16 in. high fabricated from either galavanized steel or Classified Air Duct Materials bearing the UL Class 0 or Class 1 rigid air duct material. Installed in accordance with the instructions provided by the manufacturer. Max damper openings not to exceed 360 sq in. per 100 sq ft of ceiling area.
   NAILOR INDUSTRIES INC —Types 0755, 0756, 0757
6. **Furring Channels** — Resilient channels, 3/8 in. deep by 2-3/8 in. wide at the base and 1-3/8 in. wide at the face, formed from 0.020 in. thick galv steel, spaced 16 in. OC, installed perpendicular to trusses. When batt and blanket material, Item 3, is draped over the resilient channel/gypsum wallboard ceiling membrane, the spacing shall be 12 in. OC. Channels secured to each truss with 1-1/4 in. long Type S steel screws. Channels overlapped 4 in. at splices. Channels oriented opposite at wallboard butt joints (spaced 6 in. OC) as shown in the above illustration.
7. **Wallboard, Gypsum*** — Nom 5/8 in. thick, 48 in. wide, installed with long dimension perpendicular to resilient channels with 1 in. long Type S screws spaced 12 in. OC and located a min of 1/2 in. from side joints and 3 in. from the end joints. At end joints, two resilient channels are used, extending a min of 6 in. beyond both ends of the joint. When batt and blanket insulation, Item 3, is draped over the resilient channel/gypsum wallboard ceiling membrane, screws shall be installed at 8 in. OC.
   CANADIAN GYPSUM COMPANY—Types C, IP-X2, IPC-AR
   UNITED STATES GYPSUM CO —Types C, IP-X2, IPC-AR
   USG MEXICO S A DE C V—Types C, IP-X2, IPC-AR
8. **Finishing System** — (Not Shown)— Vinyl, dry or premixed joint compound, applied in two coats to joints and screw-heads; paper tape, 2 in. wide, embedded in first layer of compound over all joints. As an alternate, nom 3/32 in. thick veneer plaster may be applied to the entire surface of gypsum wallboard.

*Bearing the UL Classification Mark

System No. W-L-1001
(Formerly System No. 147)
F Ratings — 1, 2, 3 and 4 Hr (See Items 2 and 3)
T Ratings — 0, 1, 2, 3, and 4 Hr (See Item 3)
L Rating At Ambient — less than 1 CFM/sq ft
L Rating At 400 F — less than 1 CFM/sq ft



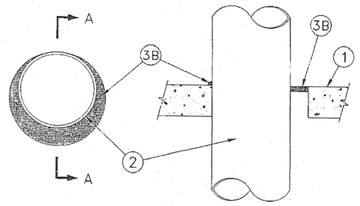
SECTION A-A

1. **Wall Assembly** — The 1, 2, 3 or 4 hr fire-rated gypsum wallboard/stud wall assembly shall be constructed of the materials and in the manner described in the individual U300 or U400 Series Wall or Partition Designs in the UL Fire Resistance Directory and shall include the following construction features:
   A. **Studs** — Wall framing may consist of either wood studs (max 2 h fire rated assemblies) or steel channel studs. Wood studs to consist of nom 2 by 4 in. lumber spaced 16 in. OC with nom 2 by 4 in. lumber end plates and cross braces. Steel studs to be min 3-5/8 in. wide by 1-3/8 in. deep channels spaced max 24 in. OC.
   B. **Gypsum Board*** — Nom 1/2 or 5/8 in. thick, 4 ft. wide with square or tapered edges. The gypsum wallboard type, thickness, number of layers, fastener type and sheet orientation shall be as specified in the individual U300 or U400 Series Design in the UL Fire Resistance Directory. Max diam of opening is 26 in.
2. **Through-Penetrant** — One metallic pipe, conduit or tubing installed either concentrically or eccentrically within the firestop system. The annular space between pipe, conduit or tubing and periphery of opening shall be min of 0 in. (point contact) to max 2 in. Pipe, conduit or tubing to be rigidly supported on both sides of wall assembly. The following types and sizes of metallic pipes, conduits or tubing may be used:
   A. **Steel Pipe** —
   — Nom 24 in. diam (or smaller) Schedule 10 (or heavier) steel pipe.
   B. **Iron Pipe** — Nom 24 in. diam (or smaller) service weight (or heavier) cast iron soil pipe, nom 12 in diam (or smaller) or Class 50 (or heavier) ductile iron pressure pipe.
   C. **Conduit** — Nom 6 in. diam (or smaller) steel conduit or nom 4 in diam (or smaller) steel electrical metallic tubing.
   D. **Copper Tubing** — Nom 6 in. diam (or smaller) Type L (or heavier) copper tubing
   E. **Copper Pipe** — Nom 6 in. diam (or smaller) Regular (or heavier) copper pipe.
   F. **Through Penetrating Product*** — Flexible Metal Piping The following types of steel flexible metal gas piping may be used:
   1. Nom 2 in. diam (or smaller) steel flexible metal gas piping. Plastic covering on piping may or may not be removed on both sides of floor or wall assembly.
      OMEGA FLEX INC
   2. Nom 1 in. diam (or smaller) steel flexible metal gas piping. Plastic covering on piping may or may not be removed on both sides of floor or wall assembly.
      TITEFLEX CORP
      A BUNDY CO
   3. Nom 1 in. diam (or smaller) steel flexible metal gas piping. Plastic covering on piping may or may not be removed on both sides of floor or wall assembly.
      WARD MFG INC
3. **Fill, Void or Cavity Material* — Caulk or Sealant** — Min 5/8. 1-1/4,1-7/8 and 2-1/2 in. thickness of caulk for 1, 2, 3 and 4 hr rated assemblies, respectively, applied within annulus, flush with both surfaces of wall. Min 1/4 in. diam bead of caulk applied to gypsum board/penetrant interface at point contact location on both sides of wall. The hourly F Rating of the firestop system is dependent upon the hourly fire rating of the wall assembly in which it is installed, as shown in the following table. The hourly T Rating of the firestop system is dependent upon the type or size of the pipe or conduit and the hourly fire rating of the wall assembly in which it is installed, as tabulated below:

Max Pipe or Conduit Diam In	F Rating Hr	T Rating Hr
1	1 or 2	0+, 1 or 2
1	3 or 4	3 or 4
4	1 or 2	0
6	3 or 4	0
12	1 or 2	0

+When copper pipe is used, T Rating is 0 h.
3M COMPANY —CP 25WB+ or FB-3000 WT.
*Bearing the UL Classification Mark

System No. C-AJ-1235
F Ratings — 2 and 3 Hr (See Item 3B)
T Rating — 0 Hr



SECTION 'A-A'

1. **Floor or Wall Assembly** — Min 4-1/2 in. thick reinforced normal weight (140-150 pcf) concrete. Floor may also be constructed of any min 6 in. thick UL Classified hollow-core **Precast Concrete Units***. **Wall may also be constructed of any UL Classified Concrete Blocks***. Max diam of opening is 26 in. If the firestop system is installed within a hollow-core hollow-core precast concrete unit, max diam of opening shall be 7 in.
   See **Concrete Block** (CAZT) and **Precast Concrete Units** (CFTV) categories in the Fire Resistance Directory for names of manufacturers.

1A. **Metallic Sleeve** — (Not shown, Optional) — Nom 8 in. diam (or smaller) Schedule 10 (or heavier) steel sleeve cast or grouted into floor or wall assembly, flush with floor or wall surfaces. The use and the max diam of the steel sleeve is dependent upon the type and max diam of the through penetrant (Item 3) and type and min fill material thickness as tabulated in Item 3B.

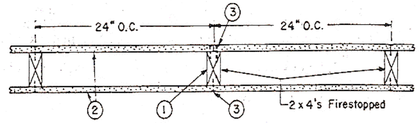
2. **Through Penetrants** — One metallic pipe, conduit or tubing to be installed either concentrically or eccentrically within the firestop system. The annular space between the pipe, conduit or tubing and the periphery of the opening shall be min 0 in. (point contact) to a max 1-7/8 in. Pipe, conduit or tubing to be rigidly supported on both sides of floor or wall assembly. The following types and sizes of metallic pipes, conduits or tubing may be used:
   A. **Steel Pipe** — Nom 24 in. diam (or smaller) Schedule 10 (or heavier) steel pipe.
   B. **Iron Pipe** — Nom 24 in. diam (or smaller) cast or ductile iron pipe.
   C. **Conduit** — Nom 4 in. diam (or smaller) steel electrical metallic tubing (EMT) or nom 6 in. diam (or smaller) steel conduit.
   D. **Copper Tubing** — Nom 6 in. diam (or smaller) Type L (or heavier) copper tubing.
   E. **Copper Pipe** — Nom 6 in. diam (or smaller) Regular (or heavier) copper pipe.

3. **Firestop System** — The firestop system shall consist of the following:
   A. **Packing Material** — Min 4 pcf mineral wool batt insulation firmly packed into opening or min 1 in. diam backer rod friction fitted into the opening as a form. Packing material to be recessed from top surface of floor or from both surfaces of wall as required to accommodate the required thickness of fill material. When the floor is constructed of hollow-core precast concrete units, packing material shall be recessed from both surfaces of floor to accommodate the required thickness of fill materials. In floors, the packing material may be removed after the fill material cures.
   B. **Fill, Void or Cavity Material* — Sealant** — Fill material applied within the annulus, flush with top surface of floor or with both surfaces of wall. At the point contact location between through penetrant and concrete, a min 3/8 in. diam bead of fill material shall be applied at the concrete/through penetrant interface on the top surface of floor and on both surfaces of wall. When the floor is constructed of hollow-core precast concrete units, fill material shall be installed symmetically on both sides of floor, flush with both floor surfaces. The F Rating of the firestop system is dependent upon the use and the max diam of the steel sleeve, type and max diam of the through penetrant and type and min fill material thickness as tabulated below:

Use of Steel Sleeve	Max Diam of Steel Sleeve In.	Type of Through Penetrant	Max Diam of Through Penetrant In.	Type of Fill Mtl	Min Fill Mtl Thkns In.	F Rating Hr
Not permitted	-	Steel or Iron Pipe	24	FS1900	1	3
Permitted	8	Steel or Iron Pipe	6	FS1900	1	3
Permitted	8	Copper Pipe, Copper Tube or Steel Conduit	6	FS1900	1	3
Permitted	6	Steel EMT	4	FS1900	1	3
Permitted	6	Steel or Iron Pipe	4	FS1900	1/2	2
Permitted	6	Copper Pipe, Copper Tube or Steel Conduit	4	FS1900	1/2	2
Permitted	6	Steel EMT	4	FS1900	1/2	2
Not permitted	-	Steel or Iron Pipe	24	FS900/ FS900+	1/2	3
Permitted	8	Steel or Iron Pipe	6	FS900/ FS900+	1/2	3
Permitted	8	Copper Pipe, Copper Tube or Steel Conduit	6	FS900/ FS900+	1/2	3
Permitted	6	Steel EMT	4	FS900/ FS900+	1/2	3

W R GRACE & CO - CONN
CONSTRUCTION PRODUCTS DIV —FlameSafe® FS1900, Flamesafe® FS900, FlameSafe® FS900+.
*Bearing the UL Classification Mark

Design No. U309
Bearing Wall Rating — 1 HR.
Finish Rating — 27 Min.



1. **Wood Studs** — Nom 2 by 4 in., spaced 24 in. OC effectively firestopped.
2. **Gypsum Board*** — 5/8 in. thick, 4 ft wide, nailed to studs and bearing plates with 6d cement coated nails 1-7/8 in. long, 0.0915 in. shank diam and 1/4 in. diam heads spaced 7 in. OC.
   When Steel Framing Members* (Item 5) are used, wallboard attached to furring channels with 1 in. long Type S bugle-head steel screws spaced 12 in. OC.
   AMERICAN GYPSUM CO —Types AG-C, AGX-C .
   BEIJING NEW BUILDING MATERIALS CO LTD — Type DBX-1.
   CONTINENTAL GYPSUM COMPANY —Types CG5-5, CG6-6, CG9-9, CG-C, CGTC-C.
   G-P GYPSUM CORP, SUB OF GEORGIA-PACIFIC CORP —Types 5, 9, DGG, DS, GPFS6.
   JAMES HARDIE GYPSUM INC —Type Max"C" .
   LAFARGE NORTH AMERICA INC —Types LGFC6, LGFC-C, LGFC6A, LGFC2, LGFC2A, LGFC-C/A.
   NATIONAL GYPSUM CO —Types FSW, FSW-3, FSW-C, FSW-G.
   NORGIPS A/S —NORFIRE XA.
   PABCO GYPSUM, DIV OF PACIFIC COAST BUILDING PRODUCTS INC —Type C or PG-C.
   SIAM GYPSUM INDUSTRY CO LTD —Type EX-1.
   STANDARD GYPSUM L L C —Type SG-C, SGC or SGC-G.
   TEMPLE-INLAND FOREST PRODUCTS CORP —Type TG-C.
3. **Joints and Nailheads** — Wallboard joints covered with paper tape and joint compound. Nailheads covered with joint compound. Gypsum plaster not more than 1/8 in. thick may be applied over the wallboard in addition to the specified joint treatment.
4. **Batts and Blankets*** — (Not Shown) — Optional glass fiber insulation.
   CERTAINTEED CORP
   JOHNS MANVILLE INTERNATIONAL INC
   OWENS-CORNING FIBERGLAS CORP

4A. **Fiber, Sprayed*** — As an alternate to Batts and Blankets (Item 4) — Spray applied cellulose insulation material. The fiber is applied with water to completely fill the enclosed cavity in accordance with the application instructions supplied with the product. Nominal dry density of 3.0 lb/ft^3.
   U S GREENFIBER L L C — Cocoon stabilized cellulose insulation.

5 **Steel Framing Members (Optional, Not Shown)*** — Furring channels and Steel Framing Members as described below:

a. **Furring Channels** — Formed of No. 25 MSG galv steel. 2-3/8 in. wide by 7/8 in. deep, spaced 24 in. OC perpendicular to studs. Channels secured to studs as described in Item b. Wallboard attached to furring channels as described in Item 2.

b. **Steel Framing Members*** — used to attach furring channels (Item a) to studs (Item 1) . Clips spaced 48 in. OC., and secured to studs with No. 8 x 2-1/2 in. coarse drywall screw through the center grommet. Furring channels are friction fitted into clips.
   PAC INTERNATIONAL — Type RSIC-1.

*Bearing the UL Classification Mark

REVISIONS
1 2 3 4 5 6 7 8

PROJECT NO. 122CE1602-01
DATE 3-20-2017

U.L. DETAILS

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GENERAL NOTES

1. IT IS THE SUBCONTRACTORS SOLE RESPONSIBILITY TO DETERMINE DEMOLITION, ERECTION PROCEDURE AND SEQUENCE TO INSURE THE SAFETY OF THE BUILDING AND ITS COMPONENT PARTS DURING ERECTION. THIS INCLUDES, BUT IS NOT LIMITED TO , THE ADDITION OF WHATEVER TEMPORARY BRACING, GUYS OR TIE-DOWNS MAY BE NECESSARY.
2. DESIGN LIVE LOADS
   ROOF 20 PSF
3. DESIGN WIND LOAD SHALL BE BASED ON THE FLORIDA BUILDING CODE 2014
   a) BASIC WIND SPEED = 140 MPH
   b) BUILDING CATAGORY II
   c) EXPOSURE 'B'
   d) INTERNAL PRESSURE COEFFICIENT± 0.18 FULLY ENCLOSED STRUCTURE
   e) COMPONENTS & CLADDING PRESSURES (ASD): +21.06 & -27.50 PSF

FOUNDATIONS

1. FOUNDATION DESIGN IS BASED ON AN ALLOWABLE SOIL BEARING PRESSURE OF 2000 PSF. WHICH SHALL BE VERIFIED BY A FLORIDA REGISTERED GEOTECHNICAL ENGINEER PRIOR TO THE START OF WORK.
2. PLACE FOOTINGS/SLAB ON COMPACTED SOIL. FOLLOW RECOMMENDATIONS OF SOILS REPORT.

CAST IN PLACE CONCRETE

1. ALL CONCRETE SHALL HAVE THE FOLLOWING MINIMUM COMPRESSIVE STRENGTH AT 28 DAYS:
   FOOTINGS 3000 PSI
   REMAINING CONCRETE 4000 PSI
2. ALL CONCRETE SHALL HAVE A SLUMP OF 4" PLUS OR MINUS 1", AND HAVE 2 TO 4% AIR ENTRAINMENT, AND A MAXIMUM WATER/CEMENT RATIO OF 0.58.
3. CONCRETE MIX DESIGN SHALL BE IN ACCORDANCE WITH THE APPLICABLE EDITION OF ACI 301 CHAPTER 3, METHOD 1 OR METHOD 2. SUBMIT BACKUP DATA AS REQUIRED BY CHAPTER 5 SECTION 5.3. OF THE LATEST EDITION OF ACI 318.
4. ALL REINFORCING STEEL SHALL BE NEW DEFORMED BILLET STEEL CONFORMING TO ASTM A-615 GRADE 60.
5. WELDED WIRE FABRIC SHALL CONFORM TO ASTM A-185. WWF SHALL BE LAPPED AT LEAST 8" AND CONTAIN AT LEAST ONE CROSS WIRE WITHIN THE 8".
6. ALL CONCRETE WORK SHALL BE IN ACCORDANCE WITH "THE BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE" ACI 318 LATEST EDITION, AND "SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS," ACI 301.
7. ALL REINFORCING DETAILS SHALL CONFORM TO "MANUAL OF STANDARD PRACTICE FOR DETAILING REINFORCED CONCRETE STRUCTURES" ACI 315 LATEST EDITION, UNLESS DETAILED OTHERWISE ON THE STRUCTURAL DRAWINGS.
8. SUBCONTRACTOR SHALL REVIEW ARCHITECTURAL AND MECHANICAL DRAWINGS FOR SIZE AND LOCATION OF EMBEDDED ITEMS, SLEEVES, SLAB DEPRESSIONS, SLOPES, ETC. REQUIRED BY OTHER TRADES. THESE ITEMS SHALL BE FURNISHED AND INSTALLED PRIOR TO PLACEMENT OF CONCRETE.
9. SUBCONTRACTOR SHALL VERIFY LOCATIONS OF ALL OPENINGS, SLEEVES, ANCHOR BOLTS, INSERTS, ETC., AS REQUIRED BY OTHER TRADES BEFORE CONCRETE IS PLACED.
10. WHERE BAR LENGTHS ARE GIVEN ON THE DRAWINGS, THE LENGTH OF ANY HOOK, IF REQUIRED, IS NOT INCLUDED. HOOKS SHALL BE PROVIDED AT DISCONTINUOUS ENDS OF ALL TOP BARS OF BEAMS AND AT SLABS EDGES.
11. SUBCONTRACTOR SHALL PROVIDE SPACERS, CHAIRS, BOLSTERS, ETC. NECESSARY TO SUPPORT REINFORCING STEEL. SUPPORT ITEMS WHICH BEAR ON EXPOSED CONCRETE SURFACES SHALL HAVE ENDS WHICH ARE PLASTIC TIPPED OR STAINLESS STEEL.
12. THE FOLLOWING MINIMUM CONCRETE COVER SHALL BE PROVIDED FOR REINFORCEMENT:
   3" CONCRETE CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH.
   2" CONCRETE EXPOSED TO EARTH OR WEATHER, #6 THROUGH #18 BARS.
   1 1/2" CONCRETE EXPOSED TO EARTH OR WEATHER, #5 BAR AND SMALLER.
   1 1/2" CONCRETE NOT EXPOSED TO WEATHER OR IN CONTACT WITH EARTH FOR THE PRIMARY REINFORCEMENT, TIES, STIRRUPS, AND SPIRALS IN BEAMS AND COLUMNS:
   3/4" CONCRETE NOT EXPOSED TO WEATHER NOR IN CONTACT WITH EARTH FOR SLABS, WALLS, AND JOISTS, #11 BAR AND SMALLER.
13. HORIZONTAL WALL AND FOOTING BARS SHALL BE BENT 1'-0" AROUND CORNERS OR CORNER BARS WITH 2'-1" LAP SHALL BE PROVIDED.
14. MINIMUM LAP SPLICES ON ALL REINFORCING BAR SPLICES SHALL BE 48 BAR DIAMETERS TYP. EXCEPT WHERE OTHERWISE NOTED ON THE DRAWINGS. FOR BEAMS AND ELEVATED SLABS, LAP BOTTOM STEEL AT THE SUPPORT AND TOP STEEL OVER THE MIDSPAN, UNLESS OTHERWISE NOTED.

WOOD CONSTRUCTION

1. WOOD CONSTRUCTION SHALL CONFORM TO THE NFPA "NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION", APPLICABLE EDITION.
2. ALL WALL STUDS AND MISC. WOOD FRAMING SHALL BE NO2 SOUTHERN YELLOW PINE. STUDS FOR LOAD BEARING WALLS SHALL BE AS FOLLOWS:

   2x4'S @ 16"O.C. (U.N.O)

3. PLACE A SINGLE PLATE AT THE BOTTOM AND A DOUBLE PLATE AT THE TOP OF ALL INTERIOR LOAD BEARING STUD WALLS. 2x SOLE PLATES AT THE EDGES OF SLABS SHALL BE ATTACHED TO THE SLAB WITH 1/2" DIA. WEDGE ANCHORS, WITH 6" EMBEDMENT, WITH 1 1/2" DIA WASHER, AT 32" ON CENTER, ALL OTHER SUBSTITUTIONS MUST BE APPROVED BY STRUCTURAL ENGINEERING PRIOR TO INSTALLATION
4. ALL WOOD IN CONTACT WITH CONCRETE OR EXPOSED TO WEATHER SHALL BE PRESSURE TREATED BORATE SBX. USE GALVANIZED NAILS AND FASTENERS IN PRESSURE TREATED LUMBER.
5. STUDS SHALL BE TRIPLED AT ALL ANGLES, CORNERS AND AROUND ALL OPENINGS.
6. WALL SHEATHING SHALL BE: (SEE SHEAR WALL SCHEDULE BELOW FOR REQUIREMENTS AT SHEAR WALLS.)
   AT EXTERIOR WALLS SHEATH THE INTERIOR FACE OF WALLS WITH GYPSUM WALLBOARD AS NOTED ABOVE FOR INTERIOR WALLS. SHEATH THE EXTERIOR FACE OF WALLS WITH 7/16" C-D PLYWOOD (OR 7/16" O.S.B.), NAILED WITH 8d NAILS AT 6" O.C. AT ALL EDGE SUPPORTS, AND 8d NAILS AT 12" O.C. AT ALL INTERMEDIATE SUPPORTS. PROVIDE SOLID 2x BLOCKING AT ALL SHEET EDGES.
7. FLOOR SHEATHING IS 3/4" TONGUE AND GROOVE C-C PLYWOOD, OR 3/4" O.S.B.(48/24 RATING), GLUED AND NAILED WITH 10d RING SHANK NAILS AT 6" O.C. AT SUPPORTED EDGES, AND 10d RING SHANK NAILS AT 12" O.C. AT INTERMEDIATE SUPPORTS
8. ROOF SHEATHING SHALL BE 5/8" CD PLYWOOD, NAILED TO TRUSSES BELOW. SEE ROOF SHEATHING NAILING SCHEDULE FOR NAIL PATTERN.
   PROVIDE ONE PLYWOOD CLIP PER SPAN BETWEEN SHEET EDGES FOR 24" SPAN.
   PROVIDE TWO PLYWOOD CLIP PER SPAN BETWEEN SHEET EDGES FOR 48" SPAN.
   PROVIDE SOLID 2x BLOCKING BETWEEN SUPPORTS AT ALL HIPS, RIDGES, VALLEYS, AND CHANGES IN ROOF SLOPE.
9. ALL LUMBER SHALL BE STAMPED WITH THE GRADE MARK OF AN APPROVED GRADING AGENCY.
10. NAILING SCHEDULE:

CONNECTION	COMMON NAIL	NUMBER OR SPACING
SOLE PLATE TO TRUSS OR BLOCKING	16d	8" O.C.
STUD TO SOLE PLATE, TOE NAIL	8d	4
DOUBLE STUDS, FACE NAIL	16d	12" O.C.
DOUBLE TOP PLATES, FACE NAIL	16d	12" O.C.
TOP PLATES LAPS AND INTERSECTIONS	16d	3
TRUSSES, LAPS OVER WALLS, FACE NAIL	16d	4
BUILT-UP CORNER STUDS	16d	12" O.C.
STUDS TO SOLE PLATE, END NAIL	16d	2

PREFABRICATED WOOD TRUSSES

1. ALL PREFABRICATED WOOD TRUSSES SHALL BE SECURELY FASTENED AT EACH END TO THEIR SUPPORTING WALLS PER CONNECTOR SCHEDULE.
2. PREFABRICATED WOOD TRUSSES SHALL BE DESIGNED IN ACCORDANCE WITH THE APPLICABLE EDITION OF THE "NATIONAL DESIGN SPECIFICATION FOR STRESS-GRADE LUMBER AND ITS FASTENERS" AS RECOMMENDED BY THE NATIONAL FOREST PRODUCTS ASSOCIATION.
3. TRUSS MEMBERS AND CONNECTIONS SHALL BE DESIGNED (WITH A MAXIMUM ALLOWABLE STRESS INCREASE FOR LOAD DURATION OF 25% FOR ROOF TRUSSES ONLY) TO WITHSTAND THE LIVE LOADS GIVEN IN THE NOTES AND TOTAL DEAD LOAD.
4. TRUSS MANUFACTURER SHALL SUBMIT SHOP DRAWINGS AND DESIGN NOTES WITH A FLORIDA REGISTERED ENGINEER'S SEAL FOR APPROVAL BY THE ARCHITECT AND ENGINEER. DESIGN NOTES TO INCLUDE THE RATED LOAD CAPACITY OF THE CONNECTORS USED TO SECURE THE MEMBERS, CERTIFICATION OF THE CONNECTOR CAPACITIES AND MANUFACTURER'S LICENSE TO FABRICATE TRUSSES UTILIZING THE CONNECTOR SYSTEM PROPOSED.
5. THE CONTRACTOR SHALL APPROVE FABRICATION AND INSTALLATION DRAWINGS SHOWING SIZE, SHAPE AND LAYOUT PRIOR TO SUBMITTAL FOR REVIEW BY THE ARCHITECT AND ENGINEER BEFORE FABRICATION HAS BEGUN.
6. BRIDGING FOR PRE-ENGINEERED TRUSSES SHALL BE AS REQUIRED BY TRUSS MANUFACTURER, AND THE LOCAL BUILDING CODE, UNLESS NOTED ON PLANS.
7. DESIGN LOADS - DEAD LOADS:

ROOF TRUSSES	BOTTOM CHORD	20 PSF
	TOP CHORD	20 PSF

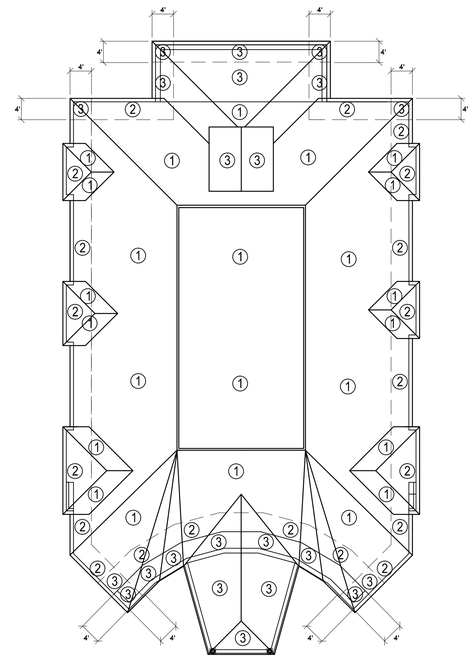
COLUMN SCHEDULE

TYPE	MARK	WIDTH	LENGTH	REINFORCING	HORIZ. TIES	REMARKS
CONC. BLK	C-1	16"	ROUND	2- #5 VERT.	-	25" BAR LAP
CONC. BLK	C-2	1/2 16"	ROUND	1- #5 VERT.	-	25" BAR LAP

FASTENER SUBSTITUTIONS:

ALL NAILS ARE COMMON NAILS, UNLESS NOTED OTHERWISE. THE FOLLOWING FASTENERS ARE ACCEPTABLE SUBSTITUTIONS. THE ALTERNATE FASTENERS SHALL BE SPACED AT THE SAME SPACING AS THE SCHEDULED FASTENERS.

SCHEDULED FASTENER	ALTERNATE FASTENER
8d COMMON NAIL	8d RING SHANK NAIL 8d SCREW SHANK NAIL 0.131 P-NAIL
10d COMMON NAIL	10d RING SHANK NAIL 10d SCREW SHANK NAIL 0.148 P-NAIL



ROOF FASTENING ZONES

ROOF SHEATHING FASTENING SCHEDULE:

PANEL EDGES	PANEL FIELD
8d RING SHANK NAILS 6" O.C.	① 8d RING SHANK NAILS 6" O.C.
8d RING SHANK NAILS 6" O.C.	② 8d RING SHANK NAILS 6" O.C.
8d RING SHANK NAILS 4" O.C.	③ 8d RING SHANK NAILS 4" O.C.

FOUNDATION SCHEDULE

MARK	SIZE	DEPTH	REINFORCING	
F1	5'-0" SQ.	1'-4"	6-#5 E.W. BOT & TOP	MONOLITHIC
F2	2'-0" CONT.	1'-4"	3-#5 CONT.±#5 TEMP BAR @ 24" O.C.	MONOLITHIC
F3	--	--	--	--
F4	2'-0" CONT.	2'-0"	3-#5 CONT.±#5 TEMP BAR @ 24" O.C.	MONOLITHIC
F5	3'-0" SQ.	1'-0"	4-#5 CONTINUOUS	MONOLITHIC
F6	8" CONT.	1'-0"	1-#5 CONTINUOUS	MONOLITHIC
F7	8" CONT.	2'-4"	1-#5 CONT. TOP & BOTT.	MONOLITHIC

REFERENCE FIN. FLR. ELEV.= +0.0"

REVISIONS
1	9-7-2016
2	
3	
4	
5	
6	
7	
8	

PROJECT NO. 122CE1602-01
DATE 3-20-2017

STRUCTURAL NOTES

PHASE 3 CLUBHOUSE BUILDING
FOR:
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5' X 4' 4" CONC. SLAB ON GRADE ON CLEAN, WELL-REINFORCE W/ 6x6-W1.4xW1.4 W.W.F. OR FIBERMESH

TYPICAL CONTOL JOINT AT 18'-0" O.C. (MAX.) E.W.

6X6 P.T. WD. POST

4" CONC. SLAB ON GRADE ON CLEAN, WELL-COMPACTED TERMITE-TREATED SUBGRADE. PROVIDE 6-MIL VAPOR BARRIER - REINFORCE W/ 6x6-W1.4xW1.4 W.W.F. OR FIBERMESH

4" CONC. SLAB ON GRADE ON CLEAN, WELL-COMPACTED TERMITE-TREATED SUBGRADE. REINFORCE W/ 6x6-W1.4xW1.4 W.W.F. OR FIBERMESH

4" ROOF DRAIN TO SITE DRAINAGE

TOP OF FTG ELEV.= -2'-8" A.F.F.

FIN. FLR. ELEV.= -2'-0"

FIN. FLR. ELEV.= ±0'0"

PRE-CAST CONC. PAVERS ON STABILIZED SOIL CEMENT

REF. RADIUS

24" X 10" MONOLITHIC CONC. FOOTING W/ 3-#5 BARS CONTINUOUS

5' X 4' 4" CONC. SLAB ON GRADE ON CLEAN, WELL-REINFORCE W/ 6x6-W1.4xW1.4 W.W.F. OR FIBERMESH

5' X 4' 4" CONC. SLAB ON GRADE ON CLEAN, WELL-REINFORCE W/ 6x6-W1.4xW1.4 W.W.F. OR FIBERMESH

SLOPE 1" / SLOPE 2" / SLOPE 3"

M.O.

SEE SHEET # P01 FOR FIXTURE DIMENSIONS AND HOSE BIBB LOCATIONS

NORTH

FOUNDATION PLAN

SCALE: 3/16"=1'-0"

REVISIONS	
1	1-4-2016
2	3-10-2017
3	
4	
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6	
7	
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PROJECT NO. 122CE1602-01

DATE 3-20-2017

FOUNDATION PLAN±

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SHEET S02 OF 53

GIRDER TRUSS
OPEN
ROOF OPENING FOR 24" X 48" ROOF HATCH
3'-0" CANT.
B-2
NORTH
135'-0"
TYPICAL 4:12 ROOF SLOPE

ROOF FRAMING PLAN

SCALE: 3/16"=1'-0"

REVISIONS		
1	3-30-2016	
2	3-10-2017	
3		
4		
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3-20-2017

ROOF FRAMING PLAN

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CAST-CRETE LINTEL SCHEDULE

LINTEL NO.	LENGTH	TYPE	COMMENTS
L 1	4'-10"	8F16-1B/IT	VARIES
L 2	4'-8"	8F16-1B/IT	BOTT. @ + 9'-4"
L 3	7'-8"	8F24-1B/IT	VARIES
L 4	2'-8"	8F16-1B/IT	BOTT. @ + 9'-4"
L 5	6'-8"	8F16-1B/IT	BOTT. @ + 9'-4"
L 6	11'-4"	8F24-1B/IT	BOTT. @ + 10'-0"
L 7	8'-8"	8F16-1B/IT	BOTT. @ + 10'-0"
L 8	10'-0"	8F16-1B/IT	BOTT. @ + 9'-4"
L 9	15'-6"	8F24-1B/IT	BOTT. @ + 11'-4"
L 10	9'-4"	8F16-1B/IT	BOTT. @ + 10'-0"
L 11	9'-8"	8F16-1B/IT	BOTT. @ + 10'-0"
L 12	16'-4"	8F16-1B/IT	BOTT. @ + 10'-0"
L 13	7'-8"	8F16-1B/0T	BOTT. @ + 10'-0"
L 14	9'-4"	8F16-1B/0T	BOTT. @ + 11'-4"
L 15	11'-0"	8F16-1B/IT	BOTT. @ + 11'-4"
L 16	10'-4"	8F16-1B/IT	BOTT. @ + 11'-4"
L 17	9'-11"	8F16-1B/IT	BOTT. @ + 11'-4"
L 18	10'-8"	8F16-1B/0T	BOTT. @ + 10'-8"
L 19	9'-8"	8F16-1B/0T	BOTT. @ + 11'-4"
L 20	9'-4"	8F24-1B/0T	VARIES

LINTEL PLAN

SCALE: 1/8"=1'-0"

NORTH

REVISIONS

1	2	3	4	5	6	7	8

PROJECT NO.
122CE1602-01

DATE
3-20-2017

LINTEL PLAN

PHASE 3 CLUBHOUSE BUILDING
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SAFE LOAD TABLES

FOR GRAVITY, UPLIFT & LATERAL LOADS

SAFE GRAVITY LOADS FOR 8" PRECAST & PRESTRESSED U-LINTELS

CAST-CRETE		SAFE LOAD - POUNDS PER LINEAR FOOT						
TYPE / LENGTH	8U8	8F8-0B	8F12-0B	8F16-0B	8F20-0B	8F24-0B	8F28-0B	8F32-0B
		8F8-1B	8F12-1B	8F16-1B	8F20-1B	8F24-1B	8F28-1B	8F32-1B
2'-10" (34") PRECAST	2231	3069	4605	6113	7547	8974	10394	11809
		3069	4605	6113	7547	8974	10394	11809
3'-6" (42") PRECAST	2231	3069	3719	5163	6607	8054	9502	10951
		3069	4605	6113	7547	8974	10394	11809
4'-0" (48") PRECAST	1966	2561	2751	3820	4890	5961	7034	8107
		2693	4605	6113	7547	8974	10394	11809
4'-6" (54") PRECAST	1599	1969	2110	2931	3753	4576	5400	6224
		2189	4375	6113	7547 (7)	8672	10294	11809
5'-4" (64") PRECAST	1217	1349	1438	1999	2560	3123	3686	4249
		1663	3090	5365	7547 (36)	7342 (19)	8733 (19)	10127 (19)
5'-10" (70") PRECAST	1062	1105	1173	1631	2090	2549	3009	3470
		1451	2622	4360	7165 (65)	6036 (19)	7181 (19)	8328 (20)
6'-6" (78") PRECAST	908	1238	2177	3480	3031	3707	4383	5061
		1238	2177	3480	5381	8360	10394 (37)	8825 (14)
7'-6" (90") PRECAST	743	1011	1729	2632	2205	2698	3191	3685
		1011	1729	2661	3898	5681	8467 (44)	6472 (15)
9'-4" (112") PRECAST	554	699	1160	1625	2564	3486	2818	3302
		752	1245	1843	2564	3486	4705 (37)	6390 (47)
10'-6" (126") PRECAST	475	535	890	1247	2093	2777	2163	2536
		643	1052	1533	2093	2781	3643 (38)	4754 (65)
11'-4" (136") PRECAST	362	582	945	1366	1846	2423	3127	4006
		582	945	1366	1846	2423	3127	4006
12'-0" (144") PRECAST	337	540	873	1254	1684	2193	2805	3552
		540	873	1254	1684	2193	2805	3552
13'-4" (160") PRECAST	296	471	755	1075	1428	1838	2316	2883
		471	755	1075	1428	1838	2316	2883
14'-0" (168") PRECAST	279	424	706	1002	1326	1697	2127	2630
		442	706	1002	1326	1697	2127	2630
14'-8" (176") PRESTRESSED	N.R.	NR	NR	NR	NR	NR	NR	NR
		458	783	1370	1902	2245	2517	2712
15'-4" (184") PRESTRESSED	N.R.	NR	NR	NR	NR	NR	NR	NR
		412	710	1250	1733	2058	2320	2513
17'-4" (208") PRESTRESSED	N.R.	NR	NR	NR	NR	NR	NR	NR
		300	548	950	1326	1609	1849	2047
19'-4" (232") PRESTRESSED	N.R.	NR	NR	NR	NR	NR	NR	NR
		235	420	750	1037	1282	1515	1716
21'-4" (256") PRESTRESSED	N.R.	NR	NR	NR	NR	NR	NR	NR
		180	340	598	845	1114	1359	1468
22'-0" (264") PRESTRESSED	N.R.	NR	NR	NR	NR	NR	NR	NR
		165	315	550	784	1047	1285	1399
24'-0" (288") PRESTRESSED	N.R.	NR	NR	NR	NR	NR	NR	NR
		129	250	450	654	884	1092	1222

(#) THE NUMBERS IN PARENTHESIS ARE PERCENT REDUCTIONS FOR GR40 FIELD ADDED REBAR. SEE NOTE NO. 4

SAFE UPLIFT LOADS FOR 8" PRECAST & PRESTRESSED U-LINTELS

CAST-CRETE	SAFE LOAD - POUNDS PER LINEAR FOOT						
TYPE / LENGTH	8F8-1T	8F12-1T	8F16-1T	8F20-1T	8F24-1T	8F28-1T	8F32-1T
	8F8-2T	8F12-2T	8F16-2T	8F20-2T	8F24-2T	8F28-2T	8F32-2T
2'-10" (34") PRECAST	1972	3173	4460	5747	7034	8321	9608
	1972	3173	4460	5747	7034	8321	9608
3'-6" (42") PRECAST	1569	2524	3547	4569	5591	6613	7636
	1569	2524	3547	4569	5591	6613	7636
4'-0" (48") PRECAST	1363	2192	3079	3966	4853	5740	6627
	1363	2192	3079	3966	4853	5740	6627
4'-6" (54") PRECAST	1207	1940	2724	3508	4292	5077	5861
	1207	1940	2724	3508	4292	5077	5861
5'-4" (64") PRECAST	1016	1632	2290	2949	3607	4265	4924
	1016	1632	2290	2949	3607	4265	4924
5'-10" (70") PRECAST	909	1492	2093	2694	3295	3897	4498
	929	1492	2093	2694	3295	3897	4498
6'-6" (78") PRECAST	835 (12)	1340	1880	2419	2959	3498	4038
	835	1340	1880	2419	2959	3498	4038
7'-6" (90") PRECAST	727 (23)	1021	1634 (12)	2102 (11)	2571 (10)	3039 (10)	3508 (9)
	727	1166	1634	2102	2571	3039	3508
9'-4" (112") PRECAST	591	680	1133 (15)	1471 (15)	1811 (15)	2152 (16)	2494 (15)
	591	851	1326	1705	2084	2463	2842
10'-6" (126") PRECAST	530	552	914 (15)	1185 (15)	1458 (15)	1732 (15)	2007 (15)
	530	686	1183	1526	1865	2204	2544
11'-4" (136") PRECAST	474	485	798 (15)	1034 (15)	1272 (15)	1510 (15)	1749 (15)
	494	599	1028	1422	1738	2053	2369
12'-0" (144") PRECAST	470 (9)	441	723 (14)	936 (14)	1151 (15)	1366 (15)	1582 (15)
	470	543	928	1349	1649	1948	2247
13'-4" (160") PRECAST	418 (15)	373	606 (14)	783 (14)	962 (14)	1141 (14)	1321 (14)
	428	455	770	1145	1444	1718	1993
14'-0" (168") PRECAST	384 (15)	346	559 (14)	723 (14)	887 (14)	1052 (14)	1218 (14)
	410	420	709	1050	1434 (8)	1694 (8)	1954 (7)
14'-8" (176") PRESTRESSED	239	323	519 (13)	671 (13)	823 (13)	976 (14)	1129 (14)
	246	390	655	968	1324 (8)	1625 (11)	1874 (11)
15'-4" (184") PRESTRESSED	224	302	485 (13)	626 (13)	767 (13)	909 (13)	1052 (13)
	230	364	609	897	1224 (8)	1562 (14)	1801 (14)
17'-4" (208") PRESTRESSED	187	255	404 (12)	520 (12)	637 (12)	754 (12)	872 (12)
	192	303	500	732	993 (8)	1268 (14)	1470 (14)
19'-4" (232") PRESTRESSED	162	222	347 (11)	446 (11)	546 (12)	646 (12)	746 (12)
	166	261	424	616	831 (8)	1057 (14)	1225 (14)
21'-4" (256") PRESTRESSED	142	198	306 (11)	393 (11)	480 (11)	567 (11)	654 (11)
	142	230	369	531	713 (7)	903 (13)	1046 (13)
22'-0" (264") PRESTRESSED	137	192	295 (10)	378 (11)	461 (10)	545 (11)	629 (11)
	137	221	354	508	681 (7)	861 (13)	997 (13)
24'-0" (288") PRESTRESSED	124	175	267 (10)	341 (10)	416 (10)	491 (10)	566 (10)
	124	200	316	450	600 (7)	756 (12)	875 (13)

(#) THE NUMBERS IN PARENTHESIS ARE PERCENT REDUCTIONS FOR GR40 FIELD ADDED REBAR. SEE NOTE NO. 4

SAFE GRAVITY LOADS FOR 8" PRECAST w/ 2" RECESS DOOR U-LINTELS

CAST-CRETE		SAFE LOAD - POUNDS PER LINEAR FOOT						
TYPE / LENGTH	8RU6	8RF6-0B	8RF10-0B	8RF14-0B	8RF18-0B	8RF22-0B	8RF26-0B	8RF30-0B
		8RF6-1B	8RF10-1B	8RF14-1B	8RF18-1B	8RF22-1B	8RF26-1B	8RF30-1B
4'-4" (52") PRECAST	1635	1749	3355	3280	4349	5421	6493	7567
		1891	3699	5206	6639	8060	9479	10893
4'-6" (54") PRECAST	1494	1596	3063	2992	3968	4946	5924	6904
		1756	3699	5206	6639	8060	9479	10893
5'-8" (68") PRECAST	866	920	1770	1716	2277	2839	3402	3966
		1167	2481	4567	6389	8060 (34)	7917 (19)	9311 (19)
5'-10" (70") PRECAST	810	859	1653	1600	2124	2649	3174	3700
		1113	2342	4242	6639 (10)	8060 (39)	7402 (19)	8706 (19)
6'-8" (80") PRECAST	797	901	1825	3120	5048	7747	9448	7360
		901	1825	3120	5048	7915	9479	10893 (32)
7'-6" (90") PRECAST	669	755	1490	2459	3776	5743	7239	5623
		755	1490	2459	3776	5743	8998 (19)	10893 (48)
9'-8" (116") PRECAST	411	466	999	1568	2253	3129	4091	3146
		526	999	1568	2253	3129	4150	5891 (47)

(#) THE NUMBERS IN PARENTHESIS ARE PERCENT REDUCTIONS FOR GR40 FIELD ADDED REBAR. SEE NOTE NO. 4

SAFE UPLIFT LOADS FOR 8" PRECAST w/ 2" RECESS DOOR U-LINTELS

CAST-CRETE	SAFE LOAD - POUNDS PER LINEAR FOOT						
TYPE / LENGTH	8RF6-1T	8RF10-1T	8RF14-1T	8RF18-1T	8RF22-1T	8RF26-1T	8RF30-1T
	8RF6-2T	8RF10-2T	8RF14-2T	8RF18-2T	8RF22-2T	8RF26-2T	8RF30-2T
4'-4" (52") PRECAST	905	1748	2635	3522	4409	5296	6183
	905	1748	2635	3522	4409	5296	6183
4'-6" (54") PRECAST	867	1675	2525	3374	4224	5074	5924
	867	1675	2525	3374	4224	5074	5924
5'-8" (68") PRECAST	675	1301	1960	2618	3277	3935	4594
	675	1301	1960	2618	3277	3935	4594
5'-10" (70") PRECAST	655	1262	1900	2538	3176	3815	4453
	655	1262	1900	2538	3176	3815	4453
6'-8" (80") PRECAST	570	1012	1651	2204	2758	3312	3865
	570	1097	1651	2204	2758	3312	3865
7'-6" (90") PRECAST	506	797	1462 (8)	1952 (7)	2442 (6)	2931 (6)	3257
	506	967	1462	1952	2442	2931	3421
9'-8" (116") PRECAST	395	491	931 (12)	1301 (15)	1640 (15)	1980 (15)	2322 (16)
	395	589	1135	1514	1893	2272	2652

(#) THE NUMBERS IN PARENTHESIS ARE PERCENT REDUCTIONS FOR GR40 FIELD ADDED REBAR. SEE NOTE NO. 4

PRODUCT DESCRIPTION

High strength precast concrete lintels designed to be unfilled or filled to form a composite reinforced beam using concrete masonry units.

MATERIALS

- f'c 8" precast lintels = 3500 psi
- f'c 8" prestressed, 6" and 12" precast lintels = 6000 psi
- f'c 4" precast lintels = 3000 psi
- Grout per ASTM C476 f'g = 3000 psi w/ maximun 3/8 inch aggregate and 8 to 11 inch slump.
- Concrete masonry units (CMU) per ASTM C90 with minimun net area compressive strenght = 1900 psi
- Rebar per ASTM A615 Grade 60
- Prestressing strand per ASTM A416 Grade 270 low relaxation
- 7/32 inch wire per ASTM A510
- Mortar per ASTM C270 Type M or S

GENERAL NOTES

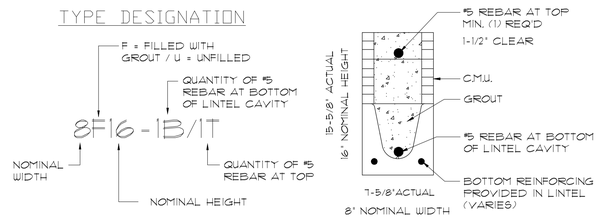
1. Provide full mortar head and bed joints.
2. Shore filled lintels as required.
3. Installation of lintel must comply with architectural and/or structural drawings.
4. U-Lintels are manufactured with 5-1/2 inch long notches at ends to accomodate vertical cell reinforcing and grouting.
5. All lintels meet or exceed L/360 vertical deflection, except lintels 17'-4" and longer with a nominal height of 8" meet or exceed L/180.
6. Bottom Field added rebar to be located at the bottom of lintel cavity.
7. 7/32 inch diameter wire stirrups are welded to the bottom steel for mechanical anchorage.
8. Cast-in-place concrete may be provided in composite lintel in lieu of concrete masonry units.
9. Safe load ratings based on rational design analysis per ACI 318 and ACI 530
10. Product Approvals: Miami Dade County, Florida Nos. 03-0605.05 and 03-0605.04
11. The exterior surface of lintels installed in exterior concrete masonry walls shall have a coating of stucco applied in accordance with ASTM C926 or other approved coating.
12. Lintels loaded simultaneously with vertical (gravity or uplift) and horizontal (lateral) loads should be checked for the combined loading with the following equation:

$$\frac{\text{Applied vertical load}}{\text{Safe vertical load}} + \frac{\text{Applied horizontal load}}{\text{Safe horizontal load}} \leq 1.0$$

SAFE LOAD TABLE NOTES

1. All values based on minimun 4 inch nominal bearing. Exception: Safe loads for unfilled lintels must be reduced by 20 % if bearing length is less than 6-1/2 inches.
2. NR. = Not Rated.
3. Safe loads are superimposed allowable load.
4. Safe loads based on Grade 40 or Grade 60 Field rebar.
5. Additional lateral load capacity can be obtained by the designer by providing additional reinforced masonry above the precast lintel. See Reinforced CMU on Page 4.
6. One #7 rebar may be substituted for two #5 rebars in 8" lintels only.
7. The designer may evalute concentrated loads from the safe load tables by calculating the maximun resisting moment and shear at d-away from the face of support.
8. For composite lintel heights not shown, use safe load from next lower height.
9. For lintel lengths not shown, use safe load from next longest length.
10. All safe loads in units of pounds per linear foot.
11. All safe loads based on simply supported span.
12. The number in the parenthesis indicates the percent reduction for grade 40 field added rebar. Example: 7'-6" lintel Type 8F32-1B safe gravity load = 6472 (15) w/ 15% reduction => 6472 (.85) = 5501 plf

TYPE DESIGNATION



REVISIONS

1	2	3	4	5	6	7	8

PROJECT NO. 122CB1602-01

DATE 3-20-2017

CAST-CRETE SAFE LOAD LINTEL TABLES

PHASE 3 CLUBHOUSE BUILDING FOR: SHANTI NIKETAN SENIOR CONDOS

TAVARES , FLORIDA

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AA26002490

SIGN/SEAL

DATE

SHEET S05 OF 53

CONTROL JOINT

CONSTRUCTION JOINT

SAW CONTROL JOINT NOTES:

1. MAKE SAW CUT AS SOON AS SLAB IS ABLE TO SUPPORT WEIGHT OF WORKERS AND SAWING EQUIPMENT WITHOUT DAMAGE TO FINISH SURFACE OF SLAB.
2. ALL SAW CUT CONTROL JOINTS SHALL BE "SOFT CUT" WITHIN 2 HOURS AFTER FINAL FINISHING.
3. CLEAN JOINT PRIOR TO FILLING THE JOINT.

JOINT FILLER MATERIAL NOTES:

1. FILLER MATERIAL USED SHALL HAVE A MINIMUM SHORE A HARDNESS OF 35, AND SHALL CONFORM TO ASTM D2240. JOINT FILLER SHALL BE APPROVED BY ENGINEER PRIOR TO APPLICATION. APPROVED JOINT FILLER IS VULKEM 245 AS MANUFACTURED BY MAMECO INTERNATIONAL OR APPROVED EQUAL.
2. WHERE POSSIBLE, FILLER MATERIAL SHALL BE APPLIED WHEN BUILDING IS UNDER PERMANENT TEMPERATURE CONTROL. THIS SHALL BE EITHER AT THE END OF CONSTRUCTION OF THE COMPLETE BUILDING SHELL, OR A MINIMUM OF 90 DAYS AFTER SLAB CONSTRUCTION.
3. FOLLOW STRICTLY THE MANUFACTURERS RECOMMENDED PROCEDURES FOR APPLYING THE JOINT FILLER.

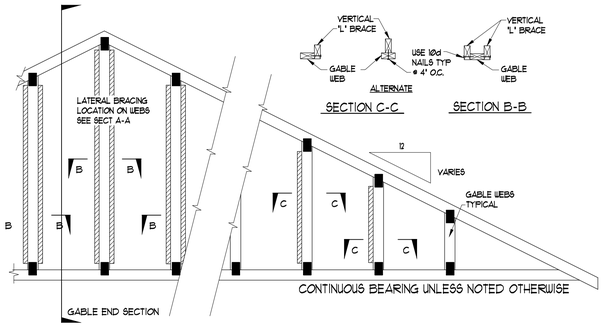
CONSTRUCTION JOINT NOTES:

1. SEE PLAN FOR SLAB THICKNESS (T) AND REINFORCING.
2. SLAB REINFORCEMENT SHALL BE CHAIRED BY SOIL SUPPORTED SLAB BOLSTERS 3'-0" O.C. EA. WAY.
3. BREAK BOND BETWEEN NEW AND PREVIOUSLY PLACED SLAB BY SPRAYING OR PAINTING EXPOSED SIDE OF SLAB AND DOWEL WITH A CURING COMPOUND, ASPHALTIC EMULSION, OR FORM OIL.
4. REFER TO GENERAL NOTES, GENERAL SPECIFICATIONS, & DRAWINGS FOR SUB-FLOOR DRAINAGE SYSTEM, SUBGRADE PREPARATION AND/OR MUD SLAB REQUIREMENTS.
5. SUBGRADE SHALL BE FREE OF STANDING WATER AT THE TIME OF CONCRETE PLACEMENT.

JOINT LOCATION & SPACING NOTES:

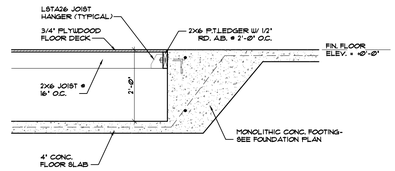
1. GENERAL CONTRACTOR TO VERIFY THE ARCHITECHURAL FLOOR FINISH AND COORDINATE THE LOCATIONS OF ALL SLAB CONTROL AND/OR CONSTRUCTION JOINTS WITH THE ARCHITECHURAL FLOOR FINISH (TYPICAL).
2. PROVIDE CONTROL AND/OR CONSTRUCTION JOINTS AT EVERY COLUMN LINE & BETWEEN THE COLUMN LINES SUCH THAT THE JOINT SPACING DOES NOT EXCEED 20'-0" O.C. OR SLAB AREA DOSE NOT EXCEED 400 SQ. FEET. AND SLAB PROPORTIONS DO NOT EXCEED A 2:1 RATIO. (TYPICAL UNLESS OTHERWISE SHOWN ON THE DRAWINGS).

1 TYP. SLAB ON GRADE CONTROL AND CONSTRUCTION JOINT DETAIL

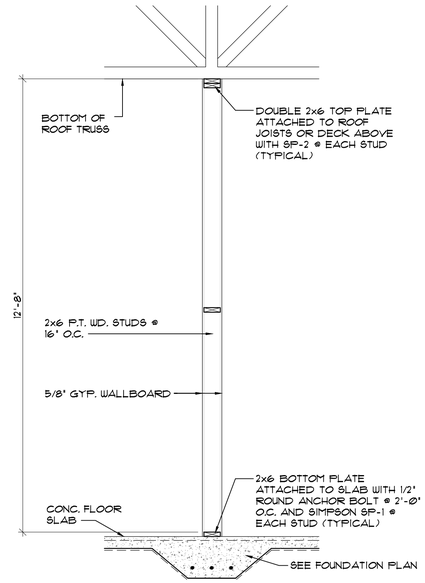


"L" BRACING REQUIREMENTS			
STUD SPACING	NO "L" BRACE	(1) 2x4 "L" BRACE	(2) 2x4 "L" BRACE
16"	0'-0" - 4'-5"	4'-5" - 8'-0"	11'-5" - 15'-6"
24"	0'-0" - 4'-0"	4'-0" - 8'-10"	8'-10" - 12'-8"

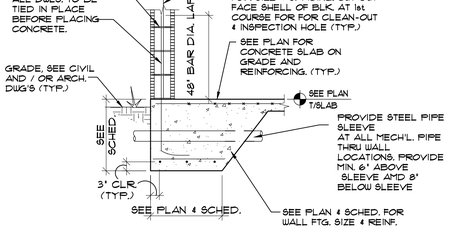
2 STAND GABLE END BRACING DETAILS
SCALE: 3/4" = 1'-0"



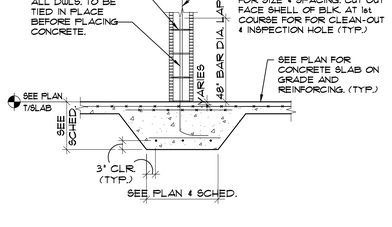
3 ELEC. / I.T. RM. FLOOR DETAIL



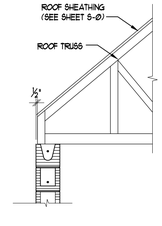
4 BEARING WALL DET.



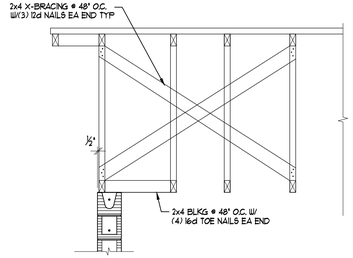
5 EXTERIOR CMU WALL AT FOOTING
SCALE: 3/4" = 1'-0"



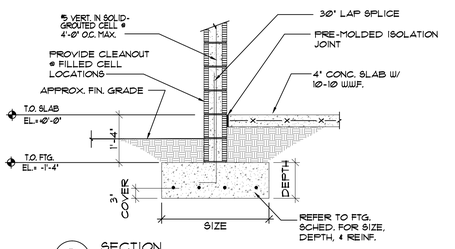
6 INTERIOR CMU WALL AT FOOTING
SCALE: 3/4" = 1'-0"



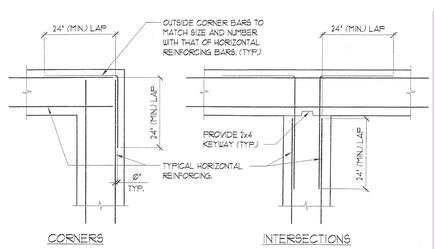
7 TYP. STUB TRUSS DETAIL
SCALE: 3/4" = 1'-0"



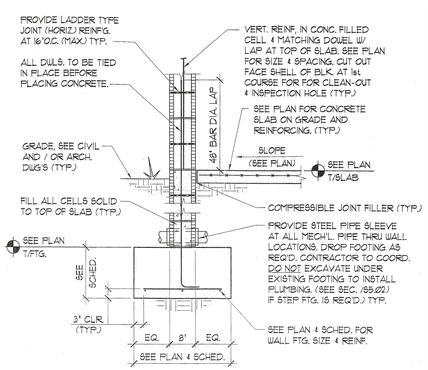
8 SECTION
SCALE: 3/4" = 1'-0"



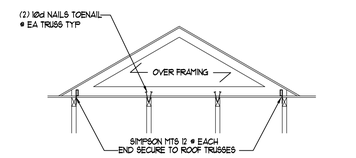
9 SECTION
SCALE: 3/4" = 1'-0"



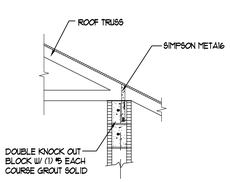
10 HORIZ. REINF. @ BEAMS, CMU WALLS, FTGS



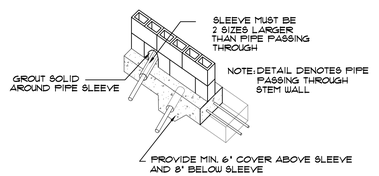
11 HORIZ. REINF. @ BEAMS, CMU WALLS, FOOTINGS



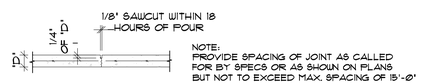
12 TYP. OVER-BUILT TRUSS CONN
SCALE: 3/4" = 1'-0"



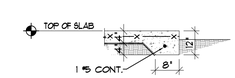
13 TYP. TRUSS TO CMU WALL
SCALE: 3/4" = 1'-0"



14 PLUMBING / FTG DETAIL
SCALE: 3/4" = 1'-0"



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



16 TURNED DOWN EDGE
SCALE: 3/4" = 1'-0"

REVISIONS

1	2	3	4	5	6	7	8

PROJECT NO. 122CE1602-01

DATE 3-20-2017

STRUCTURAL SECTIONS / DETAILS / NOTES

PHASE 3 CLUBHOUSE BUILDING
FOR:
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SHEET S06 OF 53

ALL AIR DAMPERS ARE TO BE MARKED WITH TAPE OR PAINT AND IN GOOD WORKING ORDER DAMPER SHOULD BE SET IN THE FULL OPEN POSITION

FRESH AIR:
UNITS MUST BE EQUIPPED WITH AUTOMATIC SHUTOFF DAMPERS WHEN UNITS ARE NOT IN USE.

SEE GENERAL HVAC NOTES 10, 11 & 12 FOR BATHROOM EXHAUST LINES.

CONDENSATE DRAINS TO DISCHARGE IN APROVED AREA AS PER SEC. 307 F.B.C.M. 2014

A/C 2 7.5 TON
A/C 1 7.5 TON
A/C 3 7.5 TON
24 X 16 SIDEWALL O/A INTAKE W/BUG SCREEN
50 CFM 8 X 4 1 WAY
70 CFM EXH.FAN
12" O/A LINE 730 CFM W/MOTORIZED DAMPER
MIXING BOX
195 CFM 24 X 24 4 WAY
158 CFM 24 X 24 4 WAY
7.5 TON A/H 1
95 CFM 24 X 24 4 WAY
A/C 2 T-STAT
109 CFM 24 X 24 4 WAY
146 CFM 24 X 24 4 WAY
204 CFM 24 X 24 4 WAY
RETURN 24 X 24
10" O/A LINE 298 CFM W/MOTORIZED DAMPER
A/C 3 T-STAT
246 CFM 24 X 24 4 WAY
RETURN 24 X 24
RETURN 24 X 24
146 CFM 14 X 14 4 WAY
12" O/A LINE 610 CFM W/MOTORIZED DAMPER
7.5 TON A/H 2
7.5 TON A/H 3
TEMP SENSOR A/H 1
187 CFM 14 X 14 4 WAY
150 CFM 24 X 24 PERFORATED
63 CFM 24 X 24 4 WAY
28 CFM 8 X 4 1 WAY
250 CFM EXH.FAN
246 CFM 24 X 24 4 WAY
220 CFM 24 X 24 4 WAY
220 CFM 14 X 12 SIDEWALL
A/C 1 TO HAVE REMOTE TEMP SENSOR
A/C 1 T-STAT TEST STATION
12" O/A LINE 787 CFM W/MOTORIZED DAMPER
240 CFM 24 X 24 4 WAY
240 CFM 14 X 12 SIDEWALL
64 CFM 24 X 24 4 WAY
122 CFM 24 X 24 4 WAY
A/H 4 7.5 TON
RETURN 24 X 24
169 CFM 24 X 24 4 WAY
148 CFM 24 X 24 4 WAY
63 CFM 24 X 24 4 WAY
A/C 4 T-STAT TEST STATION
21 CFM 8 X 4 1 WAY
1.5 TON A/H 5
18 X 20 THRU WALL RETURN
A/C 5 T-STAT
24 CFM 8 X 4 1 WAY
70 CFM EXH.FAN
22 CFM 8 X 4 1 WAY
181 CFM 14 X 14 4 WAY
RETURN 14 X 14
166 CFM 12 X 8 1 WAY
187 CFM 24 X 24 4 WAY
14 X 14 SIDEWALL O/A INTAKE W/BUG SCREEN
A/C 4 7.5 TON
A/C 5

MECH. #22751015C

THIS HVAC SYSTEM AS DESIGNED IS IN COMPLIANCE WITH 2014 F.B.C.M. AND THE F.E.C.C. 2014.

DAVID R ABOOD A/C DESIGN, INC.
NEW COMMERCIAL BUILDING RATER
& PUBLIC BUILDING RATER # 753
P.O. BOX 1007 ALTOONA, FL. 32702
PHONE - 352-669-0035

MECHANICAL PLAN

SCALE: 3/16"=1'-0"

NORTH

REVISIONS
1 1-1-2015
2
3
4
5
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7
8

PROJECT NO.
122CE1602-01

DATE
3-20-2017

MECHANICAL PLAN

PHASE 3 CLUBHOUSE BUILDING
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DATE

SHEET
M01
OF
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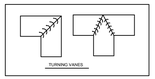
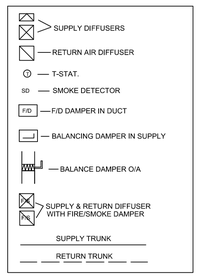
GENERAL HVAC NOTES ARE IN COMPLIANCE WITH 2014 F.B.C.M. AND F.E.C.C. 2014

1. ALL MECHANICAL EQUIPMENT SHALL BE PROVIDED WITH PROPER CLEARANCE, A MIN. OF 4 INCHES ON EACH SIDE IS SUFFICIENT. 2014 F.B.C.M. SEC. 603.1.1(3)
2. ALL DUCT SYSTEMS INSTALLED IN "NON-CONDITIONED" AREAS SHALL BE CONSTRUCTED WITH APPROVED MATERIAL AND OF A VALUE OF NO LESS THEN R-6 RATING. ALL SEAMS SHALL BE SEALED WITH GLASS FAB & MASTIC "OR" APPROVED TAPES THAT EXTEND NOT LESS THAN 1 INCH AND LABELED IN ACCORDANCE WITH THE UL-181A, PART 1 FOR DUCT BOARD OR UL 181B, PART 1 FOR FLEX. ALL CLOSURES 100% AND INSTALLATIONS SHALL BE INSTALLED AS PER 2014 F.M.C.M. CHAPTER 6, SEC. 603 & 604 ALL THRU-WALL, FLOOR & CEILING PENETRATIONS INTO THE DUCT SECTION SHALL CONTAIN A BRANCH DUCT FABRICATED OF RIGID FIBROUS GLASS DUCT BOARD OR RIGID METAL AND IS SEALED TO BOTH DUCT SECTION AND GRILLE SIDE WALL SURFACE. THE BRANCH DUCT SHALL BE FABED. AND ATTACHED IN ACCORDANCE WITH M603.3 OR M603.4.2 RESPECTIVE TO THE DUCT TAPE USED. " DRAFT 2014 F.S.R.S. MECHANICAL VOLUME".
3. ALL DUCT TRUNK 90 DEGREE TURNS OR TEE'S, SHALL HAVE TURNING VANES. 3 PIECE OR 45 DEGREE TURNS CAN BE USED IN PLACE OF 90 DEGREE TURNS AND DO NOT NEED TURNING VANES.
4. ALL REGISTERS, GRILLES & DIFFUSERS MUST BE TESTED IN ACCORDANCE WITH ASTM E 84, AND VOLUME DAMPERS OR OTHER MEANS OF SUPPLY AIR ADJUSTMENT SHALL BE PROVIDED IN DUCTS OR AT EACH INDIVIDUAL REGISTER, GRILLE OR DIFFUSER.
5. AIR DISTRIBUTION SYSTEMS EXCEEDING 5000 SQ.FT. SHALL BE TESTED, ADJUSTED, AND BALANCED BY A LICENSED ENGINEER OF THIS STATE OR A COMPANY OR INDIVIDUAL HOLDING A CURRENT CERTIFIED ORGANIZATION. (SEE EXCEPTIONS). F.B.C.E.C. 2014, CHAPTER 4[CE] SEC. C408.2.2
   EXCEPTION: 1) BUILDINGS WITH CAPACITIES OF 15 TONS OR LESS "PER SYSTEM" MAY BE TESTED AND BALANCED BY A LICENSED MECH. CONTRACTOR.
   EXCEPTION: 2) BUILDINGS WITH CAPACITIES OF 65,000 BTU/H OR LESS "PER SYSTEM" ARE "EXEMPIT". F.B.C.E.C. 2014, CHAPTER 4[CE] SEC. C408.2.2
   CONSTRUCTION DOCUMENTS SHALL REQUIRE THAT A WRITTEN BALANCE REPORT BE PROVIDED TO OWNER OR DESIGNATED REPRESENTATIVE.
6. AIR HANDLERS (OVER 2000 CFM) SHALL HAVE A SMOKE DETECTOR INSTALLED IN THE SUPPLY. F.B.C.M. 2014 CHAPTER 6, SEC. 606.2.1.
   WHEN TWO AIR HANDLERS SHARE A COMMON SUPPLY OR RETURN "AIR DUCT" OR "PLEMUN" AND THE TOTAL CFM'S ARE GREATER THAN 2000, A SMOKE DETECTOR SHALL BE INSTALLED IN THE SUPPLY AND RETURN AS PER F.B.C.M. 2014 SEC. 606.2.3 AND BE IN ACCORDANCE WITH NFPA 72
   SMOKE DETECTOR TEST STATIONS SHALL HAVE A TROUBLE INDICATOR LIGHT, INUNDATING ANY AIR DUCT TROUBLE. NFPA 90A 2015, CHAPTER 6
   NOTE: A "PLENUM" CAN NOT BE USED AS AN OCCUPANCY SPACE OR STORAGE AREAS. AS PER. NFPA-90A, SEC. 4.3.11.1.1
7. FIRE DAMPERS, SMOKE DAMPERS, COMBINATION FIRE/SMOKE DAMPERS AND CEILING DAMPERS LOCATED WITHIN AIR DUCTS MUST BE INSTALLED BY MANUFACTURERS SPECS. AND BE TESTED IN ACCORDANCE WITH UL 555, AND THE F.B.C.M. 2014 CHAPTER 6, SEC. 607.2
   ALL DAMPERS LOCATED AT CEILING OR WALL PENETRATIONS MUST HAVE ACCESS DOORS TO RESET DAMPER.
   UNLESS THE DAMPER IS IN THE DIFFUSER THAN IT CAN BE RESET THRU THE DIFFUSER.
   SMOKE DAMPERS IN A DUCT MUST HAVE A DETECTOR WITHIN 5 FT. OF THE DAMPER WITH NO AIR INLETS OR OUTLETS BETWEEN THEM.
   FOR FIRE AND SMOKE DAMPER ACTUATION METHODS REFER TO F.B.C.M. 2014 CHAPTER 6, SEC. 607.3.3
8. ENCLOSED SUPPORT PLATFORMS SHALL BE CONSTRUCTED IN ACCORDANCE TO F.B.C.M. 2014 CHAPTER 6.
9. FRESH AIR INTAKES SHALL NOT BE LOCATED CLOSER THAN 10 FT. FROM ANY CHIMNEY OR VENT OUTLET, OR SANITARY SEWER VENT OUTLET.
   ALL OUTDOOR INTAKES AND EXHAUSTS SHALL HAVE AUTOMATIC OR GRAVITY DAMPERS THAT CLOSE WHEN VENTILATION IS NOT OPERATING. F.B.C.M. 2014, SEC. 401.4
10. ALL EXHAUST DUCTS, SHALL BE CONSTRUCTED OF METAL AND COMPLY WITH F.B.C.M. 2014 CHAPTER 5, SEC. 501.5
11. BATHROOMS CONTAINING BATHTUBS, SHOWERS, SPAS AND SIMILAR BATHING FIXTURES SHALL BE MECHANICALLY VENTILATED. "EXCEPTION" RESIDENTIAL BATHROOMS HAVING NO LEES THAN 4 PERCENT OF FLOOR SPACE. F.B.C.M. 2014 CHAPTER 4, SEC. 402.2
12. ALL EXHAUSTED BATHROOMS, CLOSETS & STORAGE ROOMS SHALL HAVE UNDERCUT DOORS OR A METHOD FOR MAKE UP AIR TO BE RETURNED EQUAL TO THE AMOUNT OF CFM'S EXHAUSTED. F.B.C.M. 2014 CHAPTER 6, SEC. 601.5
13. CONDENSATE FROM ALL COOLING COILS AND EVAPORATORS SHALL BE CONVEYED FROM THE DRAIN PAN OUTLET TO AN APPROVED PLACE OF DISPOSAL.
    CONDENSATE SHALL NOT DISCHARGE INTO A STREET, ALLEY OR OTHER AREA AS TO CAUSE A NUISANCE. MUST TERMINATE A MIN. OF 18" FROM EXT. WALL.
    CONDENSATE DRAIN LINE SHALL NOT BE LESS THAN 3/4 INCH DIAMETER AND SHALL NOT DECREASE IN SIZE. 2014 F.B.C.M. CHAPTER 3, SEC. 307
    PER AUTHORITY OVER JURISDICTION CONDENSATE DRAIN MAY DRAIN TO A STORM SYSTEM, UTILITY SINK, OR SEWER BY APPROVED MEANS.
    ALL HORIZONTAL PRIMARY DRAIN LINE WITHIN UNCONDITIONAL AREA SHALL BE INSULATED. AS PER F.B.C.M. 2014 CHAPTER 3, SEC. 307
    AUXILIARY DRAIN PAN OR SECONDARY DRAIN LINE MAY BE REQUIRED WHERE DAMAGE TO ANY BUILDING MAY RESULT FROM OVERFLOW OR ANY STOPPAGE.
    AUXILIARY DRAIN PAN MUST HAVE A MIN. DEPTH OF 1.5 INCHES AND BE A MIN. 3 INCHES LARGER THAN UNIT OR COIL AND HAVE SEPARATE DRAIN LINE
    AN AUXILIARY PAN WITHOUT SEPARATE DRAIN LINE SHALL BE EQUIPPED WITH WATER LEVEL DETECTION DEVICE FOR SHUT OFF PRIOR TO OVERFLOW
    METALLIC PAN MUST HAVE A MIN. THICKNESS 0.0276-INCH, NONMETALLIC 0.0625-INCHES. AS PER F.B.C.M. 2014 CHAPTER 3, SEC. 307
    ALTERNATIVE TO SEPARATE DRAIN LINE: A WATER LEVEL DETECTION DEVICE THAT WILL SHUT EQUIPMENT PRIOR TO OVERFLOW OF PAN.
    WATER LEVEL DETECTION DEVICE SHALL CONNECT TO DRAIN PAN AT A HIGHER LEVEL THAN THE PRIMARY DRAIN CONNECTION.
    CONDENSATE DRAIN LINE CAN BE STRAPPED WITH 2" NYLON STRAP AND SUPPORTED EVERY 10' VERTICAL AND 3' HORIZONTAL
14. REFRIGERANT PIPING FOR REFRIGERANT LINES SHALL BE INSULATED TO A THERMAL RESISTIVELY OF AT LEAST R=4HR.
    SUCTION LINE MUST BE INSULATED IN ACCORDANCE WITH ASTM E96. AS PER THE F.B.C.R. 2014 CHAPTER 3, SEC. 307
15. ALL AIR DISTRIBUTION COMPONETS WILL BE INSTALLED IN ACCORDANCE TO 2014 F.B.C.M. AND F.E.C.C. 2014.
16. IF HVAC EQUIPMENT OTHER THAN SPECIFIED BY DESIGNER IS SUBSTITUTED, IT'S CAPABILITIES OF BTU HEAT REMOVAL MUST BE EQUAL TO THE EQUIPMENT SPECIFIED BY THE HVAC DESIGNER.
    THE HVAC DESIGNER WILL NOT BE RESPONSIBLE FOR ANY SYSTEM NOT INSTALLED ACCORDING TO PLANS.
17. DUCT DETECTORS TO BE SUPERVISED BY FIRE ALARM SYSTEM.



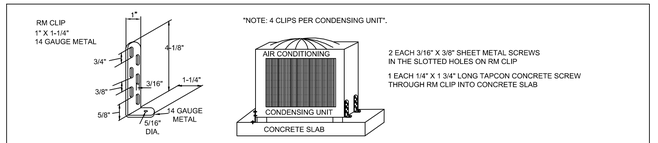


ALL AIR DAMPERS ARE TO BE MARKED WITH TAPE OR PAINT AND IN GOOD WORKING ORDER DAMPER SHOULD BE SET IN THE FULL OPEN POSITION

FRESH AIR:
UNITS MUST BE EQUIPPED WITH AUTOMATIC SHUTOFF DAMPERS WHEN UNITS ARE NOT IN USE.

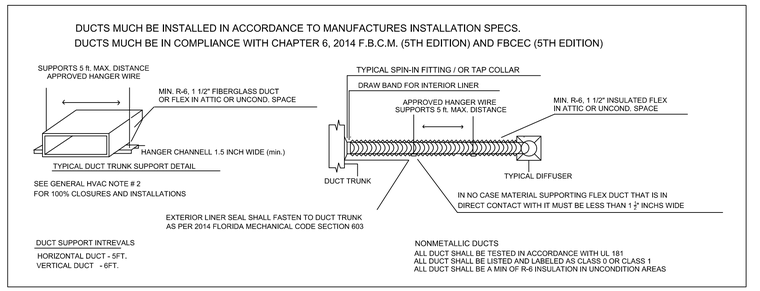
SEE GENERAL HVAC NOTES: 10, 11 & 12 FOR BATHROOM EXHAUST LINES.

CONDENSATE DRAINS TO DISCHARGE IN APROVED AREA AS PER. SEC. 307 F.B.C.M. 2014



RM CLIPS ARE G-90 RATED FOR CORRISION/WIND RESISTANCE, ASCE 7-10, 150 MPH WINDS

CONDENSING UNIT MOUNTING DETAIL



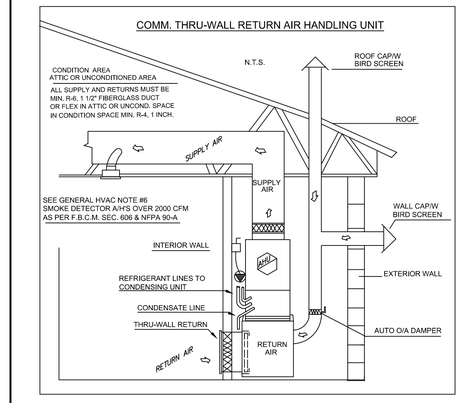
BALANCE AIR SCHEDULE

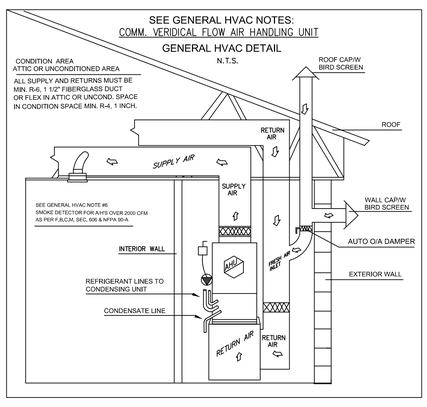
POS./NEG.	SPACE	CFM'S
POSITIVE A/C 1	OUTSIDE AIR INTAKE	+730
POSITIVE A/C 2	OUTSIDE AIR INTAKE	+610
POSITIVE A/C 3	OUTSIDE AIR INTAKE	+299
POSITIVE A/C 4	OUTSIDE AIR INTAKE	+787
POSITIVE HOOD MAKE UP AIR	OUTSIDE AIR INTAKE	+2064
NEGATIVE	RESTROOMS	-600
NEGATIVE	KITCHEN EXHAUST FAN	-2850
TOTAL	BUILDING PRESSURE	+1041

OUTSIDE AIR AS PER ASHRAE 62.1

OUTSIDE AIR SCHEDULE

SPACE	OCCUPANTS	CFM'S
DINING	.18 CFM X 3852 SQ.FT. = 693 CFM 7.5 CFM X 110 OCC. = 825 CFM	1518
FT ENTRY	.06 CFM X 833 SQ.FT. = 50 CFM 5 CFM X 25 OCC. = 125 CFM	175
OFFICES	.06 CFM X 379 SQ.FT. = 23 CFM 5 CFM X 2 OCC. = 10 CFM	33
FLEX ROOM	.30 CFM X 998 SQ.FT. = 299 CFM	299
RECIVING	.12 CFM X 375 SQ.FT. = 45 CFM	45
MAINTENANCE	.06 CFM X 173 SQ.FT. = 10 CFM 5 CFM X 2 OCC. = 10 CFM	20
KITCHEN & COM. AREA	.06 CFM X 4360 SQ.FT. = 261 CFM 7.5 CFM X 10 OCC. = 75 CFM	336
TOTAL		2426

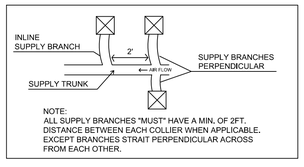


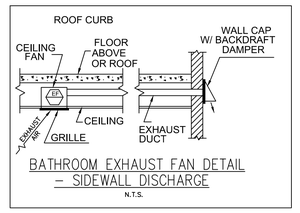


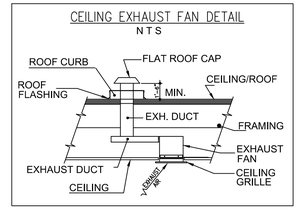
H.V.A.C. EQUIPMENT SCHEDULE

NOTE: ELECTRIC REQUIREMENT FOR EQUIPMENT TO BE FIELD VERIFIED BY ELECTICTIAN/MECHANICAL CONTRACTOR.

A/C	MFG. "OR EQUAL"	"OR EQUAL" MODEL NO.	SENSIBLE	LATENT	BTUH TOTAL-COOLING/HEATING	EER/SEER	VOLTAGE	RLA.	MIN. CIR./AMPS	MAX FUSE/BREAKER	CFM	O/A CFM's	DIA. O/A DUCT SIZE
1	CARRIER	A/H 40RUA08A COND. 38AUZA08A0K5	68080	23920	7.5 TONS 92000	15 KW 51000	11,2	230/3/60	36.1 31.6	51.6 40.6	60 60	2635	730	12"
2	CARRIER	A/H 40RUA08A COND. 38AUZA08A0K5	68080	23920	7.5 TONS 92000	15 KW 51000	11,2	230/3/60	36.1 31.6	51.6 40.6	60 60	2635	652	12"
3	CARRIER	A/H 40RUA08A COND. 38AUZA08A0K5	68080	23920	7.5 TONS 92000	15 KW 51000	11,2	230/3/60	36.1 31.6	51.6 40.6	60 60	2635	300	10"
4	CARRIER	A/H 40RUA08A COND. 38AUZA08A0K5	68080	23920	7.5 TONS 92000	15 KW 51000	11,2	230/3/60	36.1 31.6	51.6 40.6	60 60	2635	778	12"
5	CARRIER	A/H FB4CNP076L CONC. 25HHA418A	12728	4472	1.5 TONS 17200	17200	14	230/1/60	21.8 9.75	27.3 12	30 20	573		
6														







FAN SCHEDULE

FAN#	MFG. "OR EQUAL"	TYPE	CFM	VOLTS	PART#	DUCT DIA.
1-2	BROAN	CEILING EXH, FAN	250	120	I-250	8 INCHES
3-4	BROAN	CEILING EXH, FAN	50	120	688	4 INCHES

MECH. #24560416C

THIS HVAC SYSTEM AS DESIGNED IS IN COMPLIANCE WITH 2014 F.B.C.M. AND THE F.E.C.C. 2014.

DAVID R ABOOD A/C DESIGN, INC.
NEW COMMERCIAL BUILDING RATER
& PUBLIC BUILDING RATER # 753
P.O. BOX 1007 ALTOONA, FL. 32702
PHONE - 352-669-0035

REVISIONS

1	1-1-2015
2	1-30-2017
3	
4	
5	
6	
7	
8	

PROJECT NO. 122CE1602-01

DATE 3-20-2017

MECHANICAL DETAILS

PHASE 3 CLUBHOUSE BUILDING
FOR:
SHANTI NIKETAN SENIOR CONDOS
TAVARES, FLORIDA
PH. (517) 214-5667. WEBSITE: WWW.BHARATVILAS.COM

AA26002490
RABITS & ROMANO ARCHITECTURE PLANNING AND DESIGN
5127 SOUTH ORANGE AVE. SUITE 110 ORLANDO, FL. 32809
TEL - 407-496-0350
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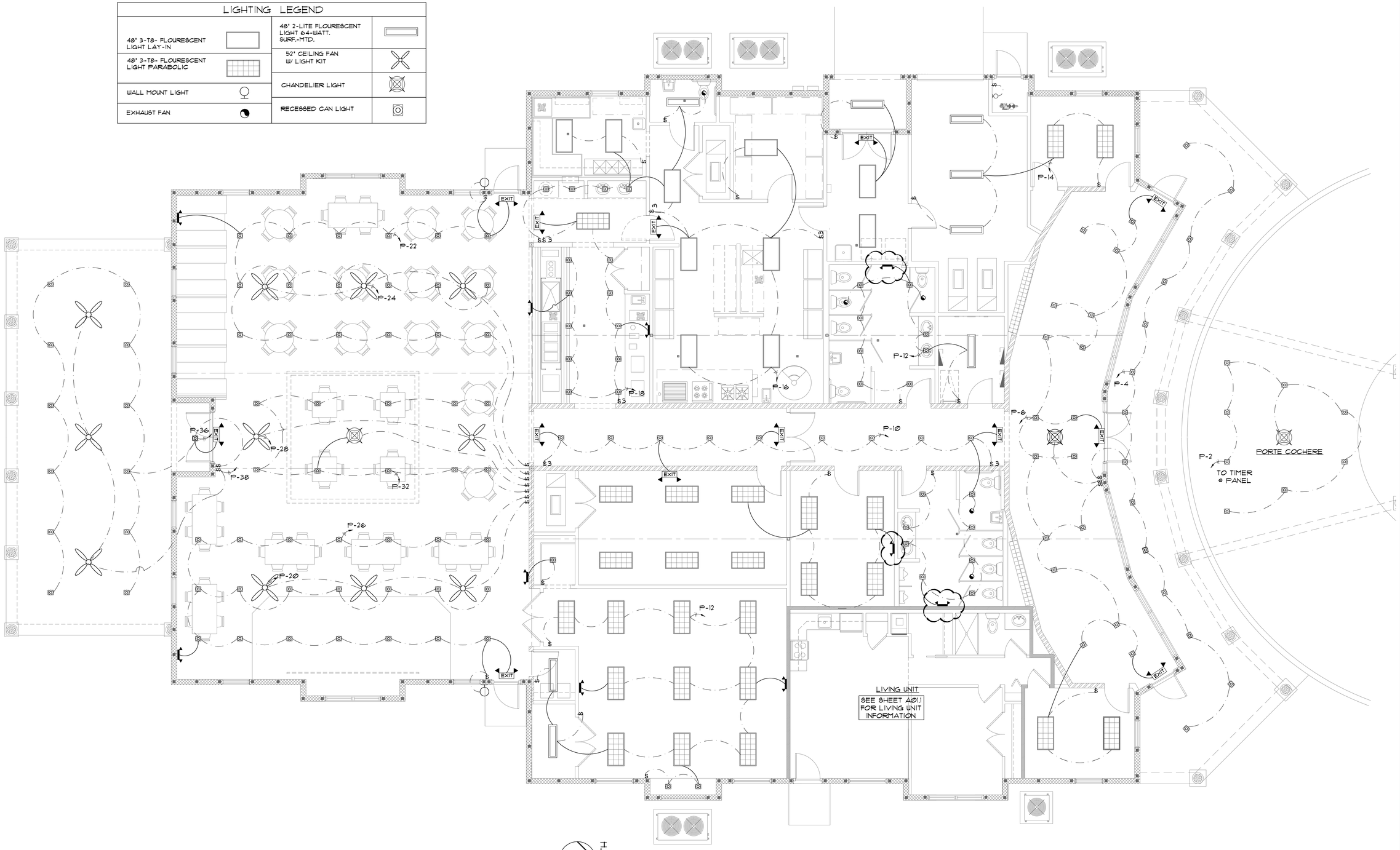
SIGN/SEAL

DATE

SHEET M02 OF 53

FOR ALL KITCHEN EQUIPMENT, SEE SCHEDULE ON SHEET A--

LIGHTING LEGEND			
48" 3-T8- FLOURESCENT LIGHT LAY-IN		48" 2-LITE FLOURESCENT LIGHT 64-WATT. SURF.-MTD.	
48" 3-T8- FLOURESCENT LIGHT PARABOLIC		52" CEILING FAN W/ LIGHT KIT	
WALL MOUNT LIGHT		CHANDELIER LIGHT	
EXHAUST FAN		RECESSED CAN LIGHT	



LIGHTING PLAN

SCALE: 3/16"=1'-0"

NORTH

REVISIONS

	1	2	3	4	5	6	7	8
1-23-2017								

PROJECT NO. 122CE1602-01

DATE 3-20-2017

LIGHTING PLAN

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SIGN/SEAL

DATE

SHEET E01 OF 53

ELECTRICAL LEGEND

NOTES	DEFINITION	SYMBOL
	COMPUTER / DATA	
	PANEL	
	WATER HEATER DISCONNECT	WH
	TELEPHONE JACK	
	AIR. COND. DISCONNECT	A/C
	TELEVISION JACK	TV.
	JUNCTION BOX	J
	COOLER/FREEZER DISCONNECT	WIC

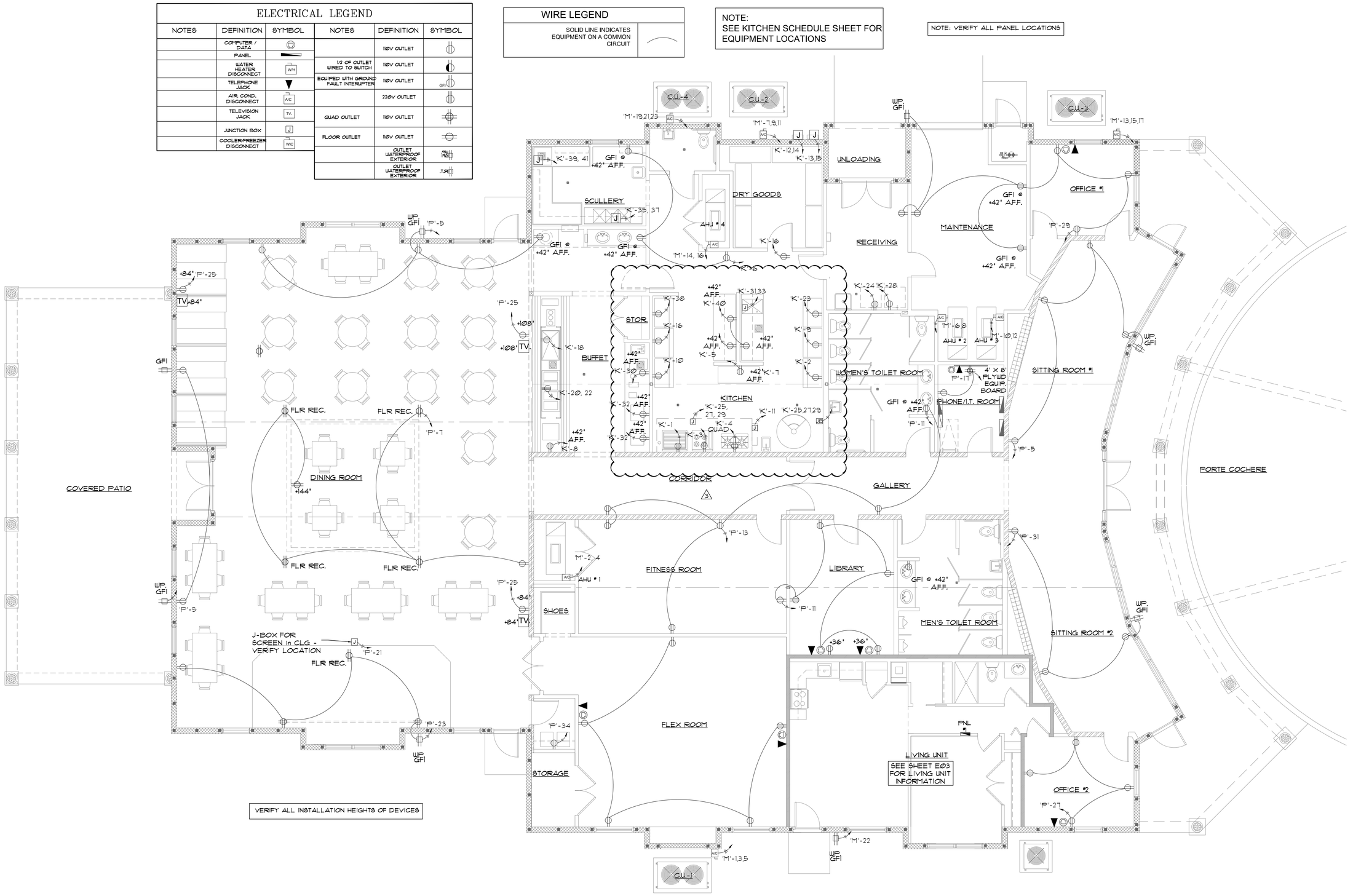
NOTES	DEFINITION	SYMBOL
	110V OUTLET	
1/2 OF OUTLET WIRED TO SWITCH	110V OUTLET	
EQUIPED WITH GROUND FAULT INTERUPTER	110V OUTLET	GFI
	220V OUTLET	
QUAD OUTLET	110V OUTLET	
FLOOR OUTLET	110V OUTLET	
	OUTLET WATERPROOF EXTERIOR	WP
	OUTLET WATERPROOF EXTERIOR	T.P

WIRE LEGEND

SOLID LINE INDICATES EQUIPMENT ON A COMMON CIRCUIT

NOTE:
SEE KITCHEN SCHEDULE SHEET FOR EQUIPMENT LOCATIONS

NOTE: VERIFY ALL PANEL LOCATIONS



VERIFY ALL INSTALLATION HEIGHTS OF DEVICES

POWER PLAN

SCALE: 3/16"=1'-0"

NORTH

REVISIONS	
1	7-1-2015
2	1-4-2016
3	3-18-2017
4	
5	
6	
7	
8	

PROJECT NO. 122CE1602-01

DATE 3-20-2017

POWER PLAN

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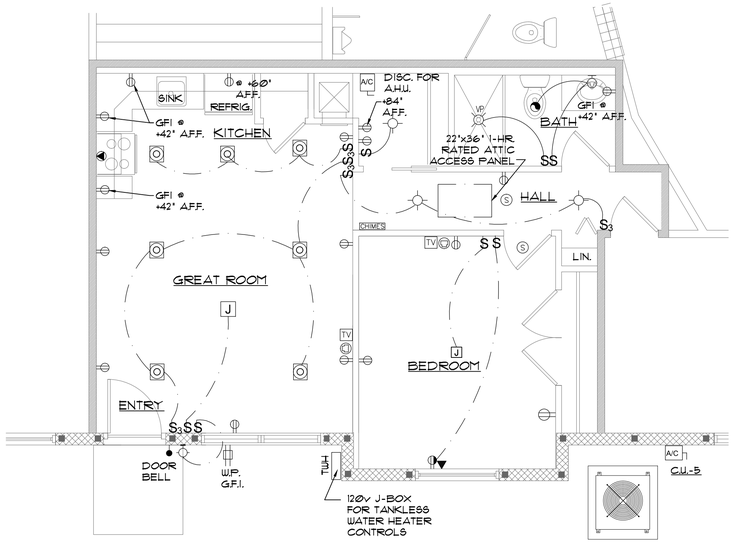
DATE

SHEET
E02
OF
53



1 / E03 ENLARGED LIVING UNIT -ELECTRICAL PLAN

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

NORTH

VOLTAGE DROP IN ACCORDANCE WITH FBC 505.7.3.1

THE MAXIMUM VOLTAGE DROP FOR FEEDER CONDUCTORS IS 2%
THE MAXIMUM VOLTAGE DROP FOR BRANCH CIRCUIT CONDUCTORS IS 3%

ELECTRICAL SPECIFICATIONS

1. ALL WORK SHALL COMPLY WITH THE NATIONAL ELECTRIC CODE 2014.
2. ELECTRICAL DRAWINGS ARE NOT TO SCALE AND TO REFER TO ARCHITECTURAL DRAWINGS FOR ELEVATIONS AND DIMENSIONS.
3. MATERIALS ARE TO BE NEW AND UNDERWRITERS APPROVED.
4. THE COMPLETE ELECTRICAL SYSTEM IS TO BE DONE IN A FIRST CLASS WORKMANLIKE MANNER AND ACCEPTED BY THE ARCHITECT OR ENGINEER.
5. THE ELECTRICAL SYSTEM SHALL BE EFFECTIVELY GROUNDED AS REQUIRED AS PER NEC-250 OF THE NATIONAL ELECTRICAL CODE.
6. THE ELECTRIC, TELEPHONE, AND TELEVISION SYSTEMS SHALL MEET THE REQUIREMENTS OF LOCAL UTILITY COMPANIES.
7. CONDUCTORS TO BE A MINIMUM OF 12 AWG AND UNLESS NOTED OTHERWISE, SHALL BE COPPER THWN OR THHN. OPTIONAL ALUMINUM SERVCE WIRING.
8. WIRE AND CONDUIT IS SPECIFIED BUT CAN BE SUBSTITUTED WITH FACTORY FABRICATED ASSEMBLY OF INSULATED CONDUCTORS IN A FLEXIBLE METALLIC ENCLOSURE WHERE PERMITTED BY LOCAL CODE.
9. ELECTRICAL MATERIALS AND WORKMANSHIP TO BE GUARANTEED FOR A PERIOD OF ONE YEAR FROM DATE OF ACCEPTANCE OF ELECTRICAL WORK.
10. ELECTRICAL SWITCHGEAR, PANELS, AND BREAKERS TO BE EQUAL TO GE, SIEMENS, OR SQUARE 'D'.
11. ALL OUTLET BOXES TO BE APPROVED FOR DRY LOCATIONS AND DAMP LOCATIONS AS PER NEC CODE.
12. MOTOR STARTERS, MANUAL OR MAGNETIC, SHALL HAVE OVER CURRENT PROTECTION IN ALL HOT LEGS.
13. ELECTRICAL CONTRACTOR TO FURNISH DISCONNECT SWITCHES PER A/C MANUFACTURER RECOMMENDATIONS
14. DISCONNECT SWITCHES SHALL BE RATED FOR 200,000 A.I.C. UNLESS OTHERWISE NOTED.
15. PROTECT EQUIPMENT AIC RATINGS WITH CLASS 'J'
16. FOR ALL BRANCH CIRCUITS SERVING PATIENT CARE AREAS, THE GROUNDING OF RECEPTACLES, AND FIXED ELECTRICAL EQUIPMENT IN PATIENT CARE AREAS SHALL COMPLY WITH NEC 2008, ARTICLE 517.13 (A) AND (B)

RESIDENTIAL UNIT LIGHTING SCHEDULE

QTY	Type	MFG	Part
	G	LITH	LB432 MV GARAGE LIGHT
	P	SEAG	6536-72 PENDANT DINING ROOM
	P1	SEAG	5136-72 PENDANT NICHE
	P2	SEAG	5136-72 PENDANT OVER DOOR
	LS	LTWY	ORLW11-A-1Q26-3-W1-WTP LANAI SCONCE
	CL	HANO	B12272 ALM CBG COACH LIGHT
	FB	SEAG	15024-15 BEDROOM FAN
	FB1	SEAG	1651-15/1664-692 LIGHT KIT AND GLASS
	FLR	SEAG	1559-72 LIVING ROOM FAN
	FL	SEAG	1525-15 LANAI FAN
	C	LITH	WC 1 17 A12 MVOLT CLOSET LIGHT
	DS	LITH	LI6F 26TRT 6LD3 MVOLT SHOWER DOWNLIGHT
	B	SEAG	46005-965 BATHROOM VANITY
	B1	SEAG	46007-965 MASTER BATH VANITY
	DK	LITH	LI6F 26TRT 6B3W MVOLT KITCHEN DOWNLIGHT

ELECTRICAL SYMBOL LEGEND

	RECEPTACLE DUPLEX 120V
	SWITCHED RECEPTACLE
	208V OR 240V RECEPTACLE
A/C	DISCONNECT SWITCH
	ELECTRICAL PANEL
	PHONE OUTLET
	HIGH SPEED DATA PORT
WP	WEATHER PROOF
GFCI	GROUND FAULT INTERRUPTER
J	JUNCTION BOX– WIRED FOR FAN/LIGHT KIT
	SURFACE MOUNTED LIGHT FIXTURE
	INCANDESCENT LIGHT HI-HAT
	WALL MOUNTED LIGHT FIXTURE
	SURFACE MOUNTED FLUORSCENT LIGHT FIXTURE 2 LAMP
	EXHAUST FAN
$	SWITCH
$3	3 WAY SWITCH
S	COMBO SMOKE DETECTOR / CARBON MONOXIDE DETECTOR CEILING MTD
TV	TV JACK
PB	PUSH BUTTON

NOTE:
ALL RECEPTACLES TO BE @ 15" AFF TO BOTTOM OF RECEPTACLE UNLESS NOTED OTHERWISE OR ABOVE COUNTER.

ALL SWITCHES TO BE @ 42" AFF TO BOTTOM OF SWITCH UNLESS NOTED OTHERWISE.

PANEL 'A' - TYPICAL 1-BEDROOM UNIT				
581 SQ. FT. - 30 CKT PANEL	125 AMP MLO		120/240V - 1-PH	
LOAD INFORMATION	C.B. SIZE	CIRCUIT	WIRE SIZE	LOAD
MICROWAVE / HOOD	20/1	1	12	1500
REFRIGERATOR	20/1	2	12	1200
DISPOSAL	20/1	5	12	1000
TANKLESS GAS WATER HEATER	20/1	8	12	500
AIR HANDLER W/ GAS FURNACE	60/2	9, 11	6	10000
A/C CONDENSER	30/2	10, 12	10	3105
SMALL APPLIANCE CIRCUIT	20/1	13, 14, 15,	12	4500
LIGHTING/RECPT. @ 3w / SQ. FT.	20/1	18-23	12	****
RANGE	60/2	24,26	6	12,000

TOTAL VA	33805
AC LOAD	13105
TOTAL LOAD LESS AC LOAD	20700
1ST 10,000 VA @ 100 %	10000
TOTAL REMAINING VA OF 10700 @ 40 %	4280
A/C LOAD @ 100 %	13105
TOTAL FOR SERVICE	27385
TOTAL AMOUNT OF AMPERAGE ON PANEL	114

SEE SHEET # E-3 FOR ELECTRICAL RISER DIAGRAM

NOTE:
PER N.E.C. 2008 SECTION 210.12 (B): DWELLING UNITS:

ALL OUTLETS INSTALLED IN THE FOLLOWING ROOMS SHALL BE A.F.C.I. (ARC FAULT CIRCUIT INTERUPT) RATED.

FOYER
DINING ROOM
DEN/STUDY
LIVING ROOM
BUTLERS PANTRY
BREAKFAST NOOK
FAMILY ROOM
MUD ROOM
VESTIBULES
BEDROOMS
CLOSETS

WIRE LEGEND

	DOTTED LINE INDICATES EQUIP. ON COMMON CIRCUIT AND/OR CONTROLLED BY COMMON SWITCH PROVIDE NECESSARY SWITCH LEGS IN CONDUIT TO ACHIEVE SWITCHING INDICATED ON PLANS.
	SOLID LINE INDICATES EQUIPMENT ON A COMMON CIRCUIT BUT NOT CONTROLLED ON SAME SWITCH DEVICE.

REVISIONS: 1 1-4-2016; 2; 3; 4; 5; 6; 7; 8

PROJECT NO. 122CE1602-01

DATE 3-20-2017

ENLARGED LIVING UNIT ELECTRICAL PLAN/ SCHEDULES/ NOTES/ DETAILS

PHASE 3 CLUBHOUSE BUILDING FOR: SHANTI NIKETAN SENIOR CONDOS

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DATE

SHEET E03 OF 53

PANEL 'P' (CLUBHOUSE PANEL)

120/208 VOLT 3-PHASE		MLO 400 AMPS										A.I.C. 10000
CKT.	CKT. ID NAME	BRK.	WIRE	A	B	C	A	B	C	WIRE	BRK.	CKT. ID NAME	CKT
1	LIGHTING	20/1	#12	256			1525			#12	20/1	PORTE COCHERE LIGHTING	2
3	FANS	20/1	#12		800			1300		#12	20/1	GOV. WALKWAY LIGHTING	4
5	EXTERIOR RECEPT.	20/1	#12			900			1680	#12	20/1	SITTING ROOM LIGHTING	6
7	DINING FLOOR RECEPTACLES	20/1	#12	720			1200			#12	20/1	CEILING FANS	8
9	DINING RECEPT.	20/1	#12		1800			1680		#12	20/1	GENERAL LIGHTING	10
11	RESTROOMS	20/1	#12			1620			1500	#12	20/1	GENERAL LIGHTING	12
13	FLEX ROOM	20/1	#12	1620			900			#12	20/1	GENERAL LIGHTING	14
15	PHONE BOARD	20/1	#12		1080			1050		#12	20/1	GENERAL LIGHTING	16
17	I.T. ROOM	20/1	#12			1200			1200	#12	20/1	GENERAL LIGHTING	18
19	MAINTENACE ROOM	20/1	#12	720			1525			#12	20/1	GENERAL LIGHTING	20
21	ROLL-UP SCREEN	20/1	#12		900			750		#12	20/1	GENERAL LIGHTING	22
23	TV RECEPTACLES	20/1	#12			1200			1000	#12	20/1	CEILING FANS	24
25	TV RECEPTACLES	20/1	#12	1200			900			#12	20/1	LIGHTING	26
27	RECEPTACLES	20/1	#12		1620			1500		#12	20/1	CEILING FANS	28
29	OFFICE #1	20/1	#12			540			1300	#12	20/1	GENERAL LIGHTING	30
31	LOBBY	20/1	#12	1620			1575			--	--	GENERAL LIGHTING	32
33	SPACE	--	--		0			1080		#12	20/1	RECEPTACLES	34
35	SPACE	--	--			0			10750	#12	20/1	OUTSIDE LIGHTING	36
37	PANEL 'K' (KITCHEN SUB-PANEL)	150/3	1/0	11872			750			#12	20/1	CEILING FANS	38
39					11872			0		--	--	SPACE	40
41						11872			0	--	--	SPACE	42
				18008	18072	17332		8375	7360	17430			

RECAP / PANEL 'B'		
BLDG. TOTAL	CONN. VA	TOTAL
LIGHTING	6059 S.F. x 3.5 WATTS PER S.F.	21207
GENERAL RECEPTACLES	13260 @ 100 %	13260
SUB-PANEL K-1	35618 @ 100 %	35618
LARGEST MOTOR	1200 25%	300
	TOTAL VA	70385
	120 / 208 3-PH	
	TOTAL AMPS	196

PANEL 'K' (KITCHEN SUB-PANEL)

120/208 VOLT 3-PHASE		MLO 150 AMPS										A.I.C. 10000
CKT.	CKT. ID NAME	BRK.	WIRE	A	B	C	A	B	C	WIRE	BRK.	CKT. ID NAME	CKT
1	60' GAS RANGE	20/1	#12	408			1000			#12	20/1	R.I. REFRIGERATOR	2
3	STOCK POT GAS RANGE	20/1	#12		450			1500		#12	20/1	RICE COOKER	4
5	MICROWAVE	20/1	#12			1800			540	#12	20/1	RECEPTACLES	6
7	MICROWAVE	20/1	#12	1800			1800			#12	20/1	POP-UP TOASTER	8
9	R.I. REFRIGERATOR	20/1	#12		1000			1200		#12	20/1	R.I. FREEZER	10
11	ANSUL CONTROLS	20/1	#12			1600			1250	#10	30/2	TANKLESS WTR HTR	12
13	TANKLESS WTR HTR	30/2	#10	1250			1250						14
15					1250			1200		#12	20/1	R.I. FREEZER	16
23	R.I. REFRIGERATOR	20/1	#12			1000			1500	#12	20/1	CLOTHES WASHER	24
25	ROTI MACHINE	20/3	#12	1068			500			#12	20/1	GAS WATER HEATER	26
27					1068			540		#12	20/1	GAS DRYER	28
29						1068			720	#12	20/1	ICE MAKER / WATER DISPENSER	30
31	DISPOSER	20/2	#12	540			750			#12	20/1	ON THE COUNTER REFRIGERATOR	32
33					540			0		--	--	SPACE	34
35	DISPOSER	20/2	#12			540			0	--	--	SPACE	36
37				540			1200			#12	20/1	R.I. FREEZER	38
39	DISHWASHER	30/2	#10		1750			540		#12	20/1	GENERAL KITCHEN RECEPTACLES	40
41						1750			256	#12	20/1	GENERAL KITCHEN RECEPTACLES	42
				5606	6058	7758		6500	4980	4266			

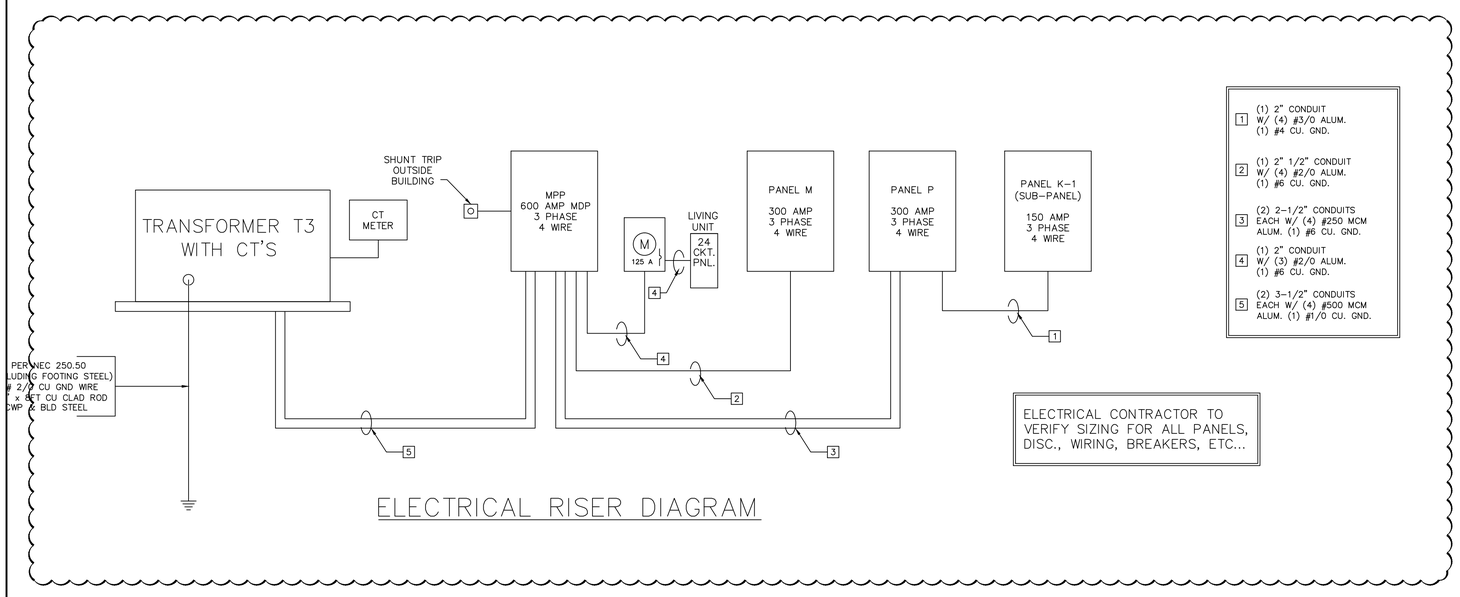
VERIFY

RECAP / PANEL 'B'		
BLDG. TOTAL	CONN. VA	TOTAL
RECEPTACLES	35168 @ 100 %	35168
LARGEST MOTOR	1800 25%	450
	TOTAL VA	35618
	120 / 208 3-PH	
	TOTAL AMPS	99

PANEL 'M' (H.V.A.C. PANEL)

120/208 VOLT 3-PHASE		MLO 200 AMPS										A.I.C. 10000	
CKT.	CKT. ID NAME	BRK.	WIRE	A	B	C	A	B	C	WIRE	BRK.	CKT. ID NAME	CKT
	7.5 TON COND. UNIT #1	60	#6	3782			4332						2
					3782			4332		#6	60/3	7.5 TON A.H.U. #1	4
						3782			4332				6
13	7.5 TON COND. UNIT #2	60/3	#6	3782			4332						8
15					3782			4332		#6	60/3	7.5-TON A.H.U. #2	10
17						3782			4332				12
19	5-TON C.U. #4	60/3	#6	3782			4332						20
21					3782			4332		#6	60	7.5 TON A.H.U. #3	22
23						3782			4332				24
25	BLANK	60/3	#6	3782			4332						26
27					3782			4332		#6	60/3	7.5 TON A.H.U. #4	28
29						3782			4332				30
31	SPACE	--	--	0			0			--	--	SPACE	32
33	SPACE	--	--		0			0		--	--	SPACE	34
35	SPACE	--	--			0			0	--	--	SPACE	36
37	SPACE	--	--	0			0			--	--	SPACE	38
39	SPACE	--	--		0			0		--	--	SPACE	40
41	SPACE	--	--			0			0	--	--	SPACE	42
				15168	15168	15168		17328	17328	17328			

RECAP / PANEL 'B'		
BLDG. TOTAL	CONN. VA	TOTAL
7.5-TON SPLIT-SYSTEM A/C	24372 @ 100 %	24372
7.5-TON SPLIT-SYSTEM A/C	24372 @ 100 %	24372
7.5-TON SPLIT-SYSTEM A/C	24372 @ 100 %	24372
7.5-TON SPLIT-SYSTEM A/C	24372 @ 100 %	24372
SERVICE RECPT.	0 @ 100 %	0
	TOTAL VA	97488
	120 / 208 3-PH	
	TOTAL AMPS	271



ELECTRICAL RISER DIAGRAM

ELECTRICAL SPECIFICATIONS

1. GUARANTEES AND RESPONSIBILITY: ALL MATERIAL AND WORKMANSHIP FOR ONE YEAR FROM DATE OF ACCEPTANCE. ALL DEFECTS SHALL BE CORRECTED WITHOUT CHARGE, INCLUDING ALL PATCHING AND PAINTING AND OTHER INCIDENTAL REPAIRS OR REPLACEMENT.

2. WORKMANSHIP: ALL WORK SHALL BE INSTALLED IN A NEAT, ORDERLY MANNER. DEVICES, PLATES, EXPOSED RACEWAYS, ENCLOSURES, COVERS, FIXTURES, ETC. SHALL BE ALIGNED PERPENDICULAR TO OR PARALLEL WITH, THE PRINCIPAL STRUCTURAL MEMBERS. THE EDGE OF THESE COVERS, PLATES ENCLOSURES, ETC., SHALL BE IN VERTICAL OR HORIZONTAL PLANE AS APPLICABLE FOR THE ITEMS INVOLVED. EXPOSED RACEWAYS SHALL BE OFFSET WHERE THEY ENTER SURFACE-MOUNTED EQUIPMENT. WIRING INSTALLED IN PANELS AND OTHER ENCLOSURES SHALL BE NEATLY LOOPED AND LACED & NOT WADDED OR BUNDLED.

3. MATERIAL STANDARDS: ALL MATERIALS SHALL BE NEW & CONFORM TO THE APPLICABLE STANDARDS WHERE SUCH HAVE BEEN ESTABLISHED FOR THE MATERIALS IN QUESTION. THE PUBLICATIONS AND STANDARDS OF THE ORGANIZATIONS BELOW ARE APPLICABLE TO THE MATERIALS SPECIFIED HEREIN.

   A. AMERICAN SOCIETY FOR TESTING AND MATERIALS (ASTM)
   B. UNDERWRITER'S LABORATORIES, INC. (UL)
   C. AMERICAN STANDARDS ASSOCIATION (ASA)
   D. NATIONAL ELECTRICAL MANUFACTURER'S ASSOCIATION (NEMA)
   E. NATIONAL FIRE PROTECTION ASSOCIATION (NFPA)

   WHERE REFERENCE IS MADE TO TRADE NAMES OR NAMES OF MANUFACTURERS, SUCH REFERENCES ARE MADE SOLELY TO DESIGNATE AND TO IDENTIFY THE QUALITY OF THE MATERIALS OR EQUIPMENT TO BE FURNISHED, AND DOES NOT PRECLUDE THE USE OF "EQUAL" EQUIPMENT AS APPROVED BY THIS ENGINEER.

4. REFERENCE STANDARDS: INSTALLATION SHALL COMPLY WITH THE REGULATIONS OF THE FOLLOWING:

   A. NATIONAL ELECTRICAL CODE (NFPA), LATEST EDITION
   B. FLORIDA BUILDING CODE, LATEST EDITION

5. DO NOT SCALE ELECTRICAL DRAWINGS. REFER TO PLANS AND ELEVATIONS FOR EXACT LOCATION OF ALL EQUIPMENT. CONFIRM WITH OWNER'S REPRESENTATIVE.

6. THE MINIMUM WIRE SIZE SHALL BE #12 AWG, UNLESS OTHERWISE NOTED. ALL CONDUCTORS SHALL BE COPPER WITH TW INSULATION FOR SIZE #6 AND SMALLER. CONDUCTORS LARGER THAN #8 SHALL HAVE TYPE THE INSULATION, UNLESS OTHERWISE NOTED. ALL CONDUCTORS #10 AND SMALLER MAY BE SOLID AND ALL THOSE #8 AND LARGER SHALL BE STRANDED.

7. ALL RACEWAYS AND PIPES PLACED IN OR THRU A CONCRETE SLAB SHALL BE SPACED A MINIMUM OF 3 DIAMETERS OF THE LARGEST CONDUIT OR PIPE OF ANY OTHER SERVICE.

8. ALL RACEWAYS SHALL BE CARLON PY-DUIT, TYPE A, U.L. LISTED OR EQUAL. CONDUIT FITTINGS AND CEMENT SHALL BE PRODUCED BY THE SAME MANUFACTURER.

   A. RUNS IN CONCRETE IN CONTACT WITH EARTH, UNDERGROUND,EXPOSED OR IN INTERIOR WALLS OR FEEDERS 1 1/4" OR LARGER, SHALL BE RIGID STEEL OR PVC

   B. METALLIC ELECTRICAL CONDUIT MAY BE USED IN THE INTERIOR PARTITIONS AND CEILINGS.

9. OUTLET BOXES SHALL BE POLYVINYL CHLORIDE AND SHALL CONFORM TO THE N.E.M.A. STANDARDS.

10. THE DISCONNECT SWITCHES SHALL BE HORSEPOWER-RATED HEAVY DUTY, QUICK-MAKE/QUICK-BREAK IN N.E.M.A.-1 INTERIOR,4 EXTERIOR.

11. IT IS NOT THE INTENT OF THESE PLANS TO SHOW EVERY MINOR DETAIL OF CONSTRUCTION. THE CONTRACTOR IS EXPECTED TO FURNISH & INSTALL ALL ITEMS FOR A COMPLETE ELECTRICAL SYSTEM AND PROVIDE ALL REQUIREMENTS FOR THE EQUIPMENT TO BE PLACED IN A PROPER WORKING ORDER. SHOULD ANY ITEMS BE MISSING, HE SHALL NOTIFY THE ARCHITECT/ENGINEER BEFORE COMMENCING WORK. NO ADDITIONAL PAYMENT WILL BE MADE FOR THE CONTRACTOR'S FAILURE TO NOTIFY THE ARCHITECT/ENGINEER.

ELECTRICAL NOTES:

1. OUTSIDE RECEPTACLES, RECEPTACLES AT BATH, GARAGE AND BAR COUNTER, SHALL BE G.F.I.
2. SMOKE DETECTOR HARDWIRED TO BAR OR BATHROOM NON-SWITCHABLE NO G.F.I. LIGHTING CIRCUIT INTERCONNECTED AND WITH BATTERY BACK-UP.
3. ELECTRICAL METER AND PANEL LOCATION MAY VARY AS PER SERVICE ENTRANCE LOCATION.
4. ELECTRICAL CONTRACTOR TO COORDINATE SERVICE WITH F.P.L.
5. ALL "J" BOXES SHALL COMPLY WITH N.E.C. 314
6. ELECTRICAL OUTLETS (RECEPTACLES AND LIGHTING) BELOW BASE FLOOD ELEVATION SHALL BE INSTALLED AT THE HIGHEST PERMITTED ELEVATION AND SHALL BE INSTALLED ON (SEPARATE) INDEPENDENT CIRCUITS FROM THOSE IN THE HABITAT AREAS.
7. NO APPLIANCES OR APPLIANCE OUTLETS SHALL BE INSTALLED BELOW BASE FLOOD ELEVATION.
8. IT IS SUGGESTED THAT YOU CONFER WITH FLORIDA POWER AND LIGHT TO LOCATE THE ELECTRICAL METER TO COMPLY WITH FEDERAL EMERGENCY MANAGEMENT AGENCY REQUIREMENTS .

REVISIONS	
1	1-27-2017
2	
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PROJECT NO. 12CE1602-01

DATE 3-20-2017

ELECTRICAL PANELS & ELECTRICAL RISER DIAGRAM

PHASE 3 CLUBHOUSE BUILDING
FOR:
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DATE

SHEET E04 OF 53

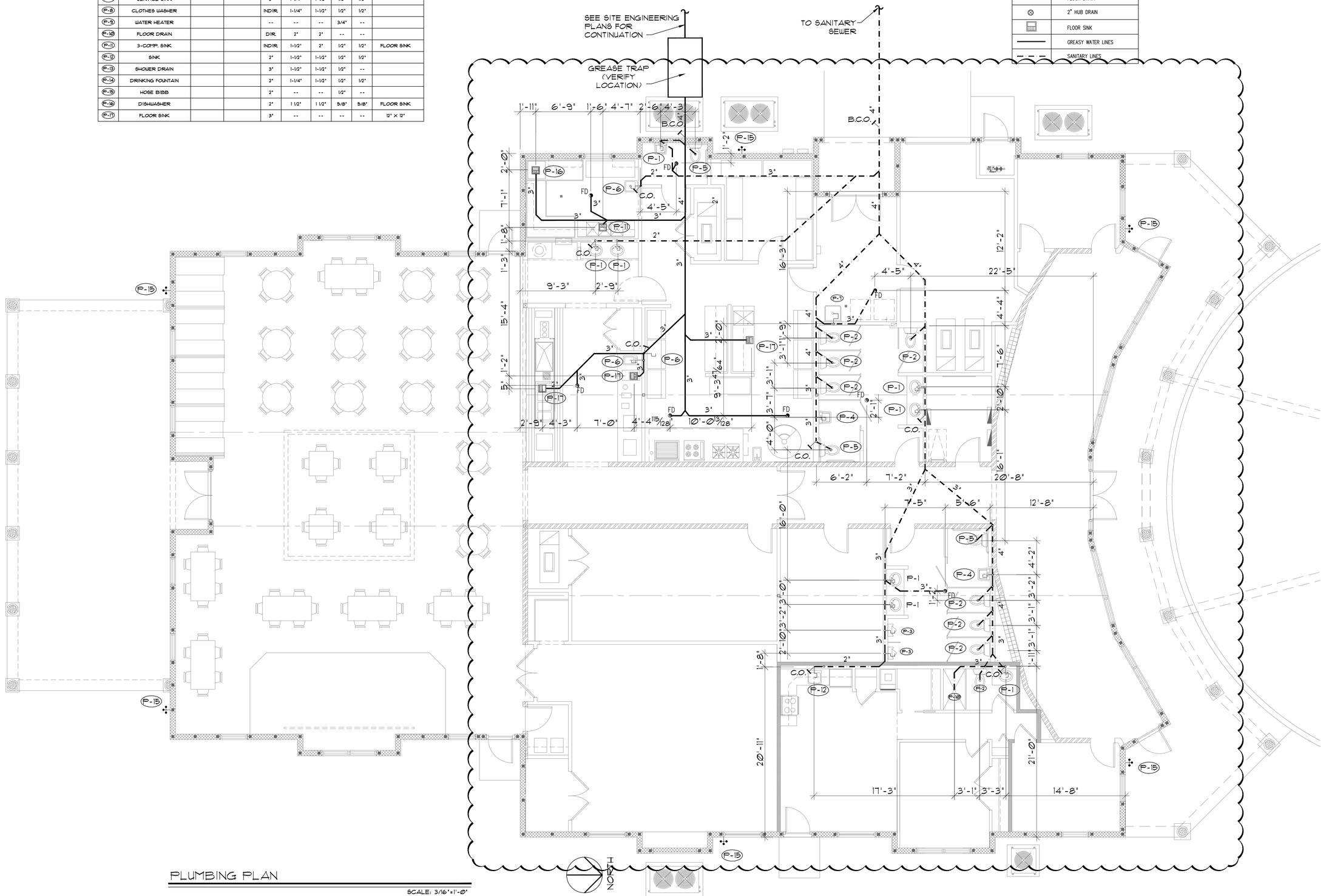
PLUMBING FIXTURE SCHEDULE									
PLAN MARK	DESCRIPTION	MANUF.	MODEL NO.	WASTE	TRAP	VENT	COLD WATER	HOT WATER	NOTES
P-1	LAVATORY			2"	1-1/4"	1-1/2"	1/2"	1/2"	1-COMP S.S.
P-2	WATER CLOSET			3"	INTEGRAL	2" MIN.	1/2"	---	
P-3	URINAL			2"	1-1/2"	1-1/2"	1/2"	---	
P-4	H/C EQUIPPED SINK			2"	1-1/4"	1-1/2"	1/2"	1/2"	
P-5	H/C EQUIP. WATER CLOSET			3"	INTEGRAL	2" MIN.	1/2"	---	
P-6	HAND SINK			2"	1-1/4"	1-1/2"	1/2"	1/2"	
P-7	SERVICE SINK			2"	1-1/4"	1-1/2"	1/2"	1/2"	
P-8	CLOTHES WASHER			INDIR.	1-1/4"	1-1/2"	1/2"	1/2"	
P-9	WATER HEATER			--	--	--	3/4"	--	
P-10	FLOOR DRAIN			DIR.	2"	2"	--	--	
P-11	3-COMP. SINK			INDIR.	1-1/2"	2"	1/2"	1/2"	FLOOR SINK
P-12	SINK			2"	1-1/2"	1-1/2"	1/2"	1/2"	
P-13	SHOWER DRAIN			3"	1-1/2"	1-1/2"	1/2"	--	
P-14	DRINKING FOUNTAIN			2"	1-1/4"	1-1/2"	1/2"	1/2"	
P-15	HOSE BIBB			2"	--	--	1/2"	--	
P-16	DISHWASHER			2"	1 1/2"	1 1/2"	5/8"	5/8"	FLOOR SINK
P-17	FLOOR SINK			3"	--	--	--	--	12" X 12"

PLUMBING SYMBOLS	
SYMBOL	DESCRIPTION
FD	FLOOR DRAIN
	2" HUB DRAIN
	FLOOR SINK
	GREASY WATER LINES
	SANITARY LINES

SEE SITE ENGINEERING PLANS FOR CONTINUATION

GREASE TRAP (VERIFY LOCATION)

TO SANITARY SEWER



PLUMBING PLAN

SCALE: 3/16"=1'-0"

NORTH

REVISIONS								
1	1-1-2015	2	1-4-2016	3	2-21-2017	4	5	6	7	8

PROJECT NO. 122CE1602-01

DATE 3-20-2017

PLUMBING PLAN

PHASE 3 CLUBHOUSE BUILDING
FOR:
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DATE

SHEET P01 OF 53

PLUMBING FIXTURE SCHEDULE									
PLAN MARK	DESCRIPTION	MANUF.	MODEL NO.	WASTE	TRAP	VENT	COLD WATER	HOT WATER	NOTES
P-1	LAVATORY			2"	1-1/4"	1-1/2"	1/2"	1/2"	1-COMP S.S.
P-2	WATER CLOSET			3"	INTEGRAL	2" MIN.	1/2"	---	
P-3	URINAL			2"	1-1/2"	1-1/2"	1/2"	---	
P-4	H/C EQUIPPED SINK			2"	1-1/4"	1-1/2"	1/2"	1/2"	
P-5	H/C EQUIP. WATER CLOSET			3"	INTEGRAL	2" MIN.	1/2"	---	
P-6	HAND SINK			2"	1-1/4"	1-1/2"	1/2"	1/2"	
P-7	SERVICE SINK			2"	1-1/4"	1-1/2"	1/2"	1/2"	
P-8	CLOTHES WASHER			INDIR.	1-1/4"	1-1/2"	1/2"	1/2"	
P-9	TANKLESS WATER HEATER			--	--	--	3/4"	--	
P-10	FLOOR DRAIN			DIR.	2"	2"	--	--	
P-11	3-COMP. SINK			INDIR.	1-1/2"	2"	1/2"	1/2"	
P-12	SINK			2"	1-1/2"	1-1/2"	1/2"	1/2"	
P-13	SHOWER			3"	1-1/2"	1-1/2"	1/2"	--	
P-14	DRINKING FOUNTAIN			2"	1-1/4"	1-1/2"	1/2"	1/2"	
P-15	HOSE BIBB			2"	--	--	1/2"	--	
P-16	DISHWASHER			--	--	--	3/4"	3/4"	

NOTE:
1. ALL TOILET ROOMS SHALL SHALL HAVE ELONGATED TYPE COMMERCIAL TOILETS

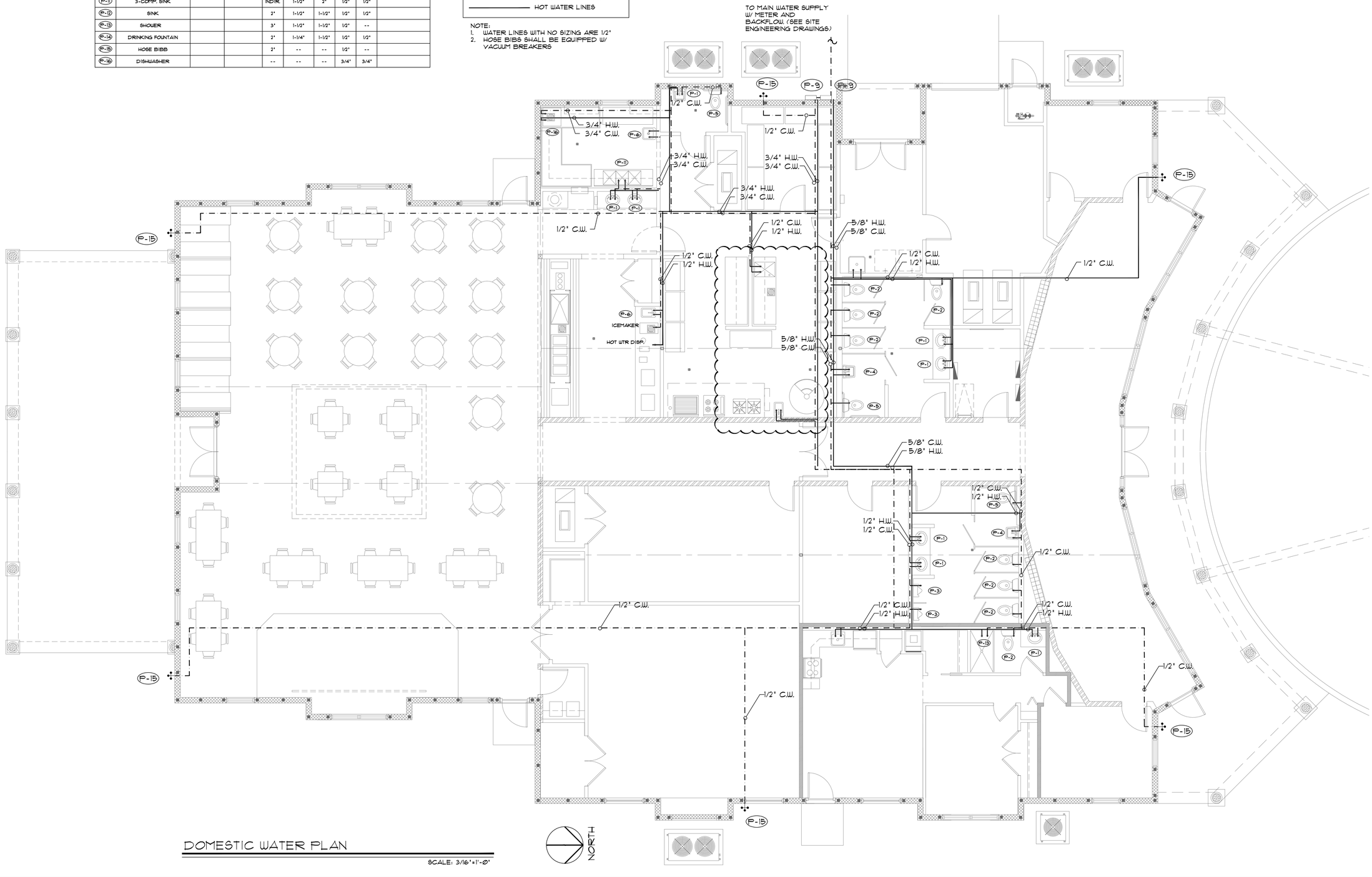
2. IN ALL TOILET ROOMS, PROVIDE IN-WALL CARRIERS FOR THE WALL MOUNTED H.C. LAVATORIES

3. CONTRACTOR TO FIELD VERIFY ALL EXISTING PLUMBING CONDITIONS AND PLUMBING LINE LOCATIONS BEFORE STARTING WORK.

LEGEND

- - - - - - - COLD WATER LINES
——————— HOT WATER LINES

NOTE:
1. WATER LINES WITH NO SIZING ARE 1/2"
2. HOSE BIBS SHALL BE EQUIPPED W/ VACUUM BREAKERS



DOMESTIC WATER PLAN

SCALE: 3/16"=1'-0"

REVISIONS	
1	3-10-2017
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PROJECT NO. 122CE1602-01

DATE 3-20-2017

DOMESTIC WATER PLAN

PHASE 3 CLUBHOUSE BUILDING
FOR:
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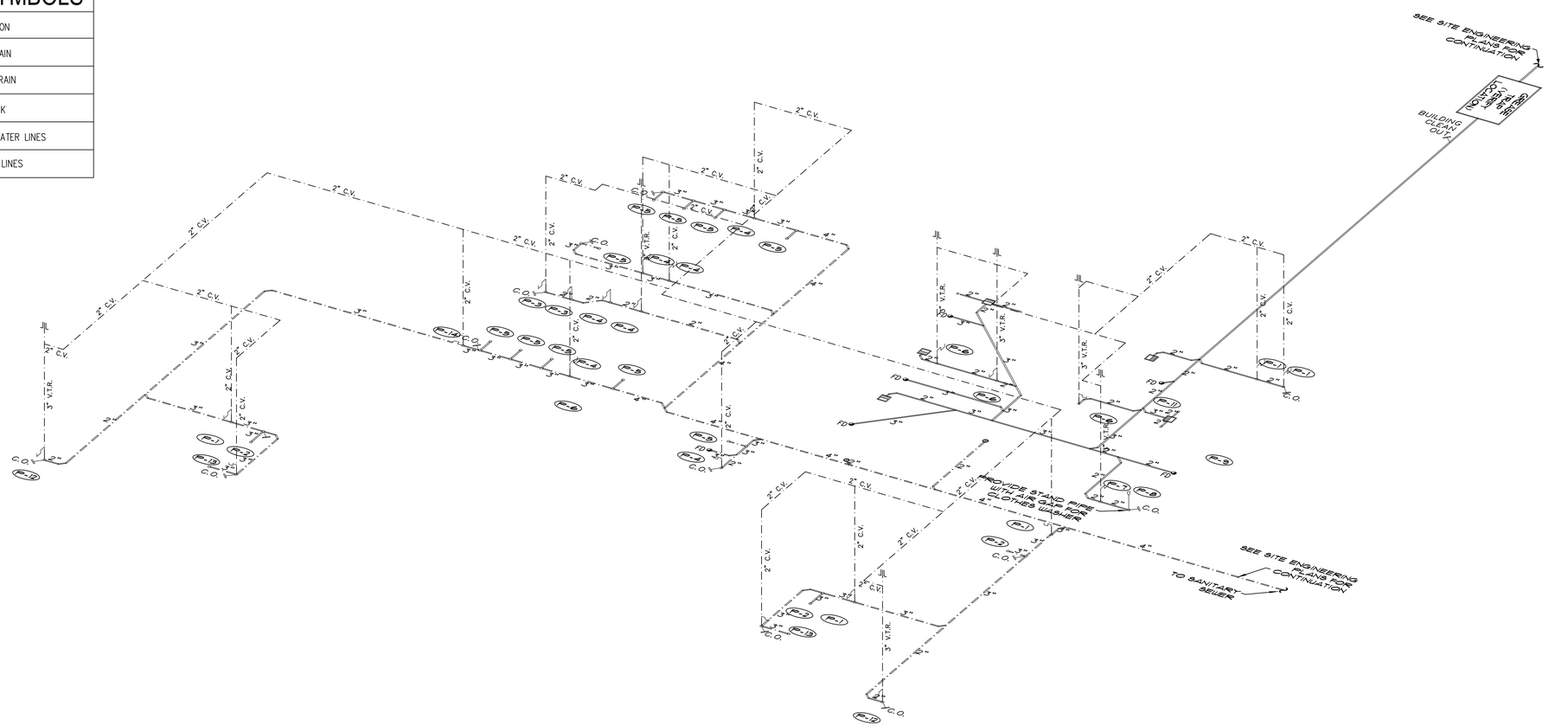
SHEET P02 OF 53

PLUMBING FIXTURE SCHEDULE									
PLAN MARK	DESCRIPTION	MANUF.	MODEL NO.	WASTE	TRAP	VENT	COLD WATER	HOT WATER	NOTES
P-1	LAVATORY			2"	1-1/4"	1-1/2"	1/2"	1/2"	1-COMP S.S.
P-2	WATER CLOSET			3"	INTEGRAL	2" MIN.	1/2"	---	
P-3	URINAL			2"	1-1/2"	1-1/2"	1/2"	---	
P-4	H/C EQUIPPED SINK			2"	1-1/4"	1-1/2"	1/2"	1/2"	
P-5	H/C EQUIP. WATER CLOSET			3"	INTEGRAL	2" MIN.	1/2"	---	
P-6	HAND SINK			2"	1-1/4"	1-1/2"	1/2"	1/2"	
P-7	SERVICE SINK			2"	1-1/4"	1-1/2"	1/2"	1/2"	
P-8	CLOTHES WASHER			INDIR.	1-1/4"	1-1/2"	1/2"	1/2"	
P-9	WATER HEATER			--	--	--	3/4"	--	
P-10	FLOOR DRAIN			DIR.	2"	2"	--	--	
P-11	3-COMP. SINK			INDIR.	1-1/2"	2"	1/2"	1/2"	
P-12	SINK			2"	1-1/2"	1-1/2"	1/2"	1/2"	
P-13	SHOWER DRAIN			3"	1-1/2"	1-1/2"	1/2"	--	
P-14	DRINKING FOUNTAIN			2"	1-1/4"	1-1/2"	1/2"	1/2"	
P-15	HOSE BIBB			2"	--	--	1/2"	--	

PLUMBING SYMBOLS

SYMBOL	DESCRIPTION
FD	FLOOR DRAIN
⊗	2" HUB DRAIN
	FLOOR SINK
———	GREASY WATER LINES
- - - -	SANITARY LINES



NORTH

PLUMBING RISER

SCALE: 3/16" = 1'-0"

REVISIONS

1	2	3	4	5	6	7	8

PROJECT NO. 122CE1602-01

DATE 3-20-2017

PLUMBING RISER

PHASE 3 CLUBHOUSE BUILDING
FOR:
SHANTI NIKETAN SENIOR CONDOS
TAVARES , FLORIDA
PH: (517) 214-5667, WEBSITE: WWW.BHARATVILAS.COM

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www.rabits-architect.com

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DATE

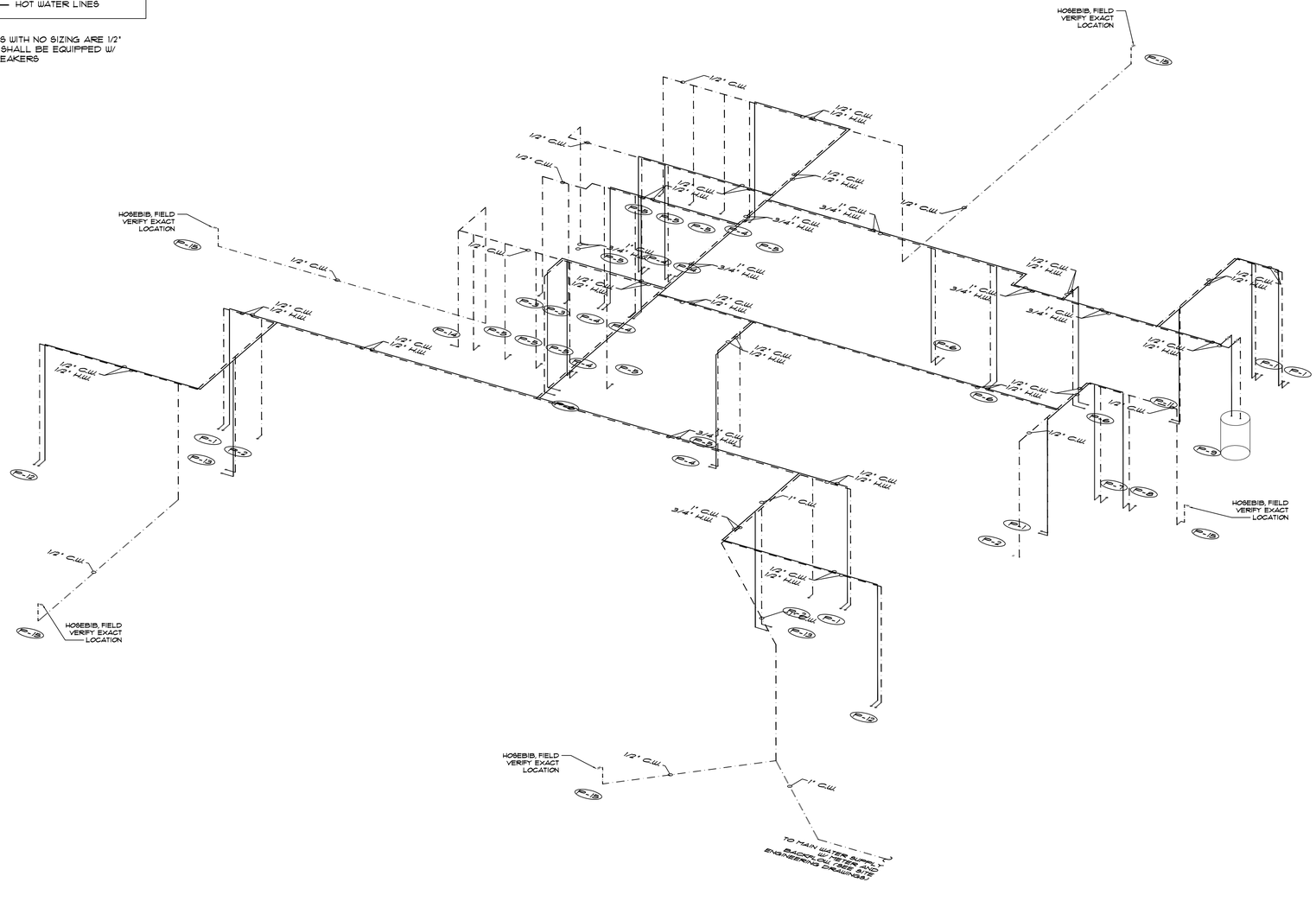
SHEET P03 OF 53

PLUMBING FIXTURE SCHEDULE

PLAN MARK	DESCRIPTION	MANUF.	MODEL NO.	WASTE	TRAP	VENT	COLD WATER	HOT WATER	NOTES
P-1	LAVATORY			2"	1-1/4"	1-1/2"	1/2"	1/2"	1-COMP S.S.
P-2	WATER CLOSET			3"	INTEGRAL	2" MIN.	1/2"	---	
P-3	URINAL			2"	1-1/2"	1-1/2"	1/2"	---	
P-4	H/C EQUIPPED SINK			2"	1-1/4"	1-1/2"	1/2"	1/2"	
P-5	H/C EQUIP. WATER CLOSET			3"	INTEGRAL	2" MIN.	1/2"	---	
P-6	HAND SINK			2"	1-1/4"	1-1/2"	1/2"	1/2"	
P-7	SERVICE SINK			2"	1-1/4"	1-1/2"	1/2"	1/2"	
P-8	CLOTHES WASHER			INDIR.	1-1/4"	1-1/2"	1/2"	1/2"	
P-9	WATER HEATER			--	--	--	3/4"	--	
P-10	FLOOR DRAIN			DIR.	2"	2"	--	--	
P-11	3-COMP. SINK			INDIR.	1-1/2"	2"	1/2"	1/2"	
P-12	SINK			2"	1-1/2"	1-1/2"	1/2"	1/2"	
P-13	SHOWER DRAIN			3"	1-1/2"	1-1/2"	1/2"	--	
P-14	DRINKING FOUNTAIN			2"	1-1/4"	1-1/2"	1/2"	1/2"	
P-15	HOSE BIBB			2"	--	--	1/2"	--	

LEGEND	
- - - - - -	COLD WATER LINES
———	HOT WATER LINES

NOTE:
1. WATER LINES WITH NO SIZING ARE 1/2"
2. HOSE BIBS SHALL BE EQUIPPED W/ VACUUM BREAKERS



NORTH

DOMESTIC WATER RISER

SCALE: 3/16" = 1'-0"

REVISIONS

1	2	3	4	5	6	7	8

PROJECT NO. 122CE1602-01

DATE 3-20-2017

DOMESTIC WATER RISER

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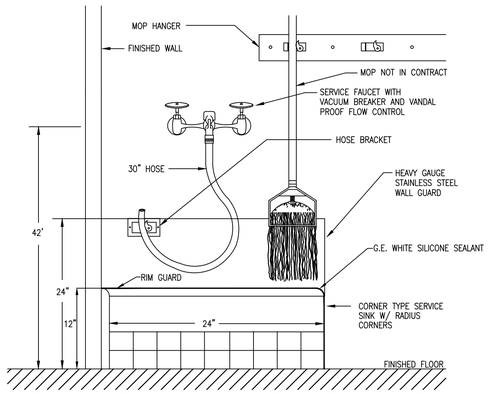
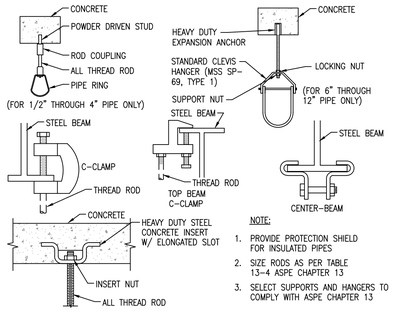
SHEET P04 OF 53

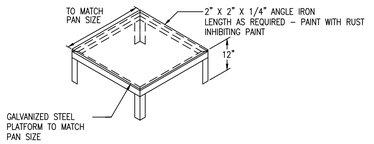


CORNER TYPE MOP SINK DETAIL
NOT TO SCALE

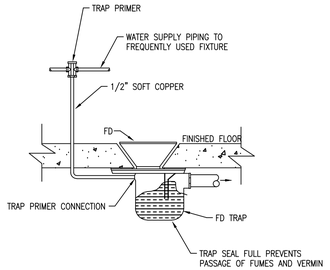


NOTE:
1. PROVIDE PROTECTION SHIELD FOR INSULATED PIPES
2. SIZE RODS AS PER TABLE 13-4 ASPE CHAPTER 13
3. SELECT SUPPORTS AND HANGERS TO COMPLY WITH ASPE CHAPTER 13

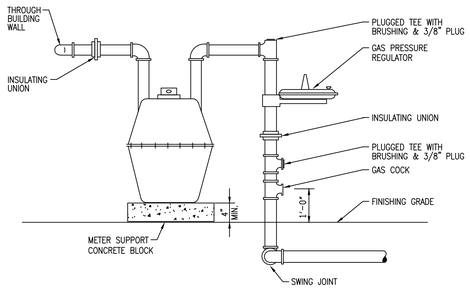
PIPE HANGERS AND SUPPORTS DETAIL
NOT TO SCALE



WATER HEATER SUPPORT BASE DETAIL
NOT TO SCALE

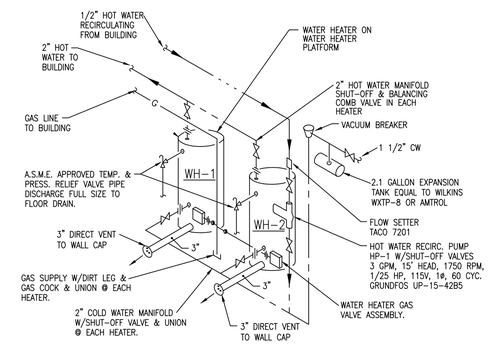


TRAP PRIMER PIPING DETAIL
NOT TO SCALE

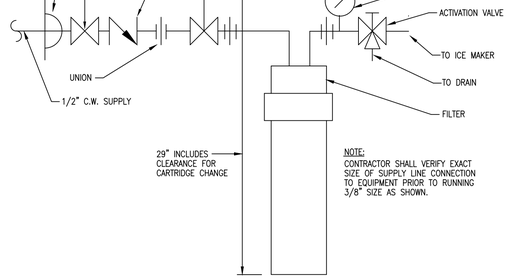


GAS METER DETAIL
NOT TO SCALE

NOTE:
1. GAS LINE SHALL HAVE WRAPPING UP TO 6" ABOVE GRADE. SEE SPECIFATIONS

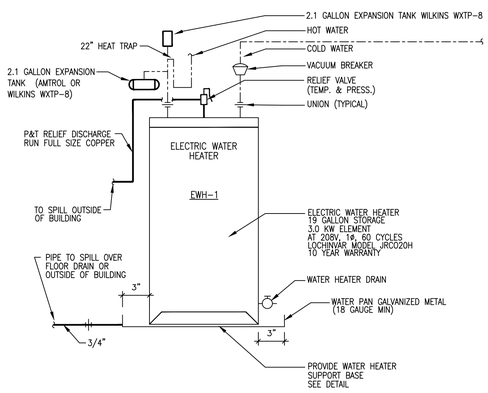


DUAL GAS WATER HEATER DETAIL
NOT TO SCALE

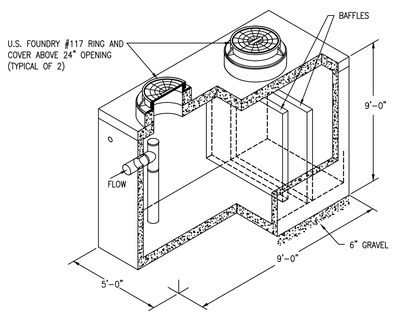


NOTE:
CONTRACTOR SHALL VERIFY EXACT SIZE OF SUPPLY LINE CONNECTION TO EQUIPMENT PRIOR TO RUNNING 3/8" SIZE AS SHOWN.

ICE MACHINE CONNECTION DETAIL
NOT TO SCALE



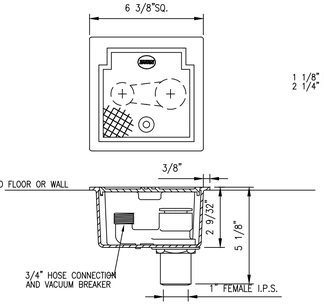
ELECTRIC WATER HEATER DETAIL
NOT TO SCALE



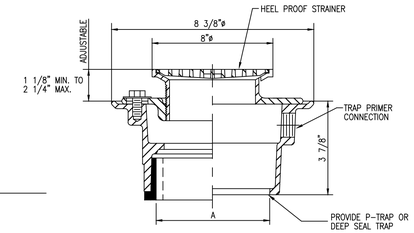
NOTES:
1. STRUCTURE DESIGNED FOR HS-20-44 LOADING.
2. CONCRETE STRENGTH SHALL BE 5,000 PSI AT 28 DAYS.
3. REINFORCED STEEL SHALL BE GRADE 60. CONFORMING TO ASTM A-706 AS SPECIFIED ON REINFORCING DRAWINGS.
4. MANHOLE FRAMES, COVERS OR GRATES ARE MANUFACTURED OF GRAY CAST IRON CONFORMING TO A48-76 CLASS 30. MANHOLE SHALL HAVE 24 INCH INSIDE DIAMETER AND BE HEAVY DUTY.
5. INTERCEPTOR IS STRUCTURAL AND HYDRAULICALLY ENGINEERED CONFORMING TO UNIFORM PLUMBING CODE.

* OLDCASTLE MODEL
48-1500-G
(407)855-7580

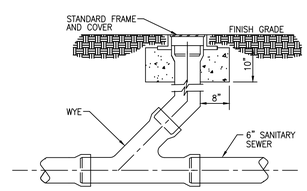
1500 GALLON GREASE INTERCEPTOR
NOT TO SCALE



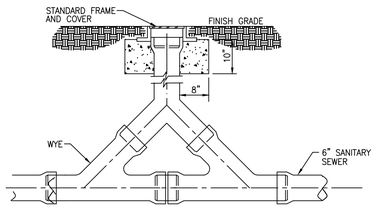
HOSE BIBB DETAIL
NOT TO SCALE



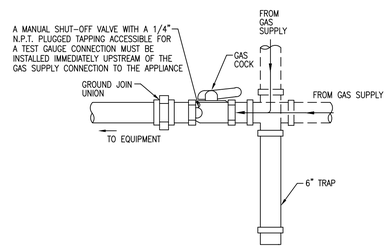
FLOOR DRAIN DETAIL
NOT TO SCALE



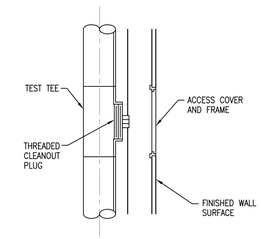
GROUND CLEANOUT DETAIL
NOT TO SCALE



TWO WAY GROUND CLEANOUT DETAIL
NOT TO SCALE



GAS PIPE EQUIPMENT CONNECTION DETAIL
NOT TO SCALE



WALL CLEANOUT DETAIL
NOT TO SCALE

REVISIONS
1 2 3 4 5 6 7 8

PROJECT NO.
122CE1602-01

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PLUMBING DETAILS

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P05
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